

2020 Year End Summary of Audits of the Emerald Park Landfill



Prepared For:

City of Muskego
Green For Life Emerald Park Landfill Standing Committee





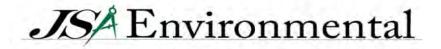
2020 Year End Summary of Audits of the Emerald Park Landfill



Prepared For:

City of Muskego
Green For Life Emerald Park Landfill Standing Committee





Annual Report

2020 Green For Life Emerald Park Landfill Year End Compliance Officer Report and Audit Summary

To: Advanced Disposal Services Emerald Park Standing Committee

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 03/29/2021

PROJECT NUMBER: 1012.10030

JSA Environmental (JSA) has been acting as the Emerald Park Landfill Standing Committee's (Committee) Landfill Compliance Officer since 1999. JSA conducts weekly audits of the Emerald Park Landfill's 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 on the City of Muskego's web site.

Throughout 2020, 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 Emerald Park Landfill Site
- Review and recording of all documents publicly released by Emerald Park Landfill, Wisconsin Department of Natural Resources (WDNR), Host Communities, or public entities relating to the Emerald Landfill Site.
- Archiving of Emerald Park Landfill, WDNR, and Host Communities' documents.

Change of Management

At the end of May 2020; Mike Hackney was terminated from his role of General Manager for Advanced Disposal. At that time Chad Siegle was still being trained for his role as Site Manager at Emerald Park. Advanced Disposal placed Jake Margelofsky as the Temporary Site Manager and engaged in a search for a new General Manager. By the end of June 2020, Chad Siegle was installed as the Site Manager for Emerald Park. At the end of July, Dan Otzelberger was hired to be the new General Manager for Advanced Disposal.

Change of Ownership

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Disposal, via the conditions of the sale of Advanced Disposal to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support. As of the writing of this summary, there has been no change to regional and local staff.

For the ease of following the audit summary, the site will be referred to as Emerald Park Landfill (EPL); in 2021 it will be referred to as Green For Life Environmental Emerald Park Landfill (GFLEEPL).

Summary of Audits

JSA Environmental (JSA) performed fifty (50) Operational audits of Emerald Park Landfill and no Construction audits were conducted in 2020. Audits are conducted on a weekly basis with one excused for the Christmas Holiday. EPL did not have adequate staff for two audits in 2020, however in each instance an audit was conducted later in the week.

In addition to the managers that were present based on date, Scott Croft, Gas Well Technician; represented EPL during audits and signed the Audit Forms. Dan Otzelberger, current General Manager was present for audits in 2020 as well.

Audits were performed during operational hours of the facility, no audits were conducted on the weekends. Audits are recorded on "Audit Forms", approved by the Committee and EPL. The form is reviewed by both auditor and a EPL 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.

Coronvirus Disease identified in 2019 (COVID-19) Impacts

Starting on March 24, 2020; JSA Environmental and Advanced Disposal staff began engaging CDC guidelines and common sense. Audits were not conducted in a shared vehicle until June audits in 2020. Audit discussions were performed in person, distanced in the office or outside, or over the phone while the auditor was still on site.

To date, auditing protocols are being fully implemented when ISA is on site.

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). EPL has installed and is operating a weather station at the site, data was not used from it for Audits.

Poor weather conditions have an impact on all landfills, EPL is no exception; daily cover is a mix of MRF seconds, foundry sands, construction/demolition wastes (C&D), site soils, tipped soils, 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.

Weather conditions aid in the identification of potential odor sources, trail paths, and travel times.

Equipment used in Landfill Operation

EPL had one compactor and two bulldozers in operation on the working face of the landfill for the majority of audits until November of 2020. The purchase of Advanced Disposal by Waste Management did not extend to Emerald Park, however Waste Management acquired the commercial waste collection. Without the commercial waste being tipped the daily tonnage dropped to approximately 1,000 tons per day; which only requires the use of a compactor and dozer to operate. year.



The site operated throughout 2020 with appropriate equipment as defined by the Plan of Operations, a compactor was used for compaction and a bulldozer to place daily cover. During periods of high soil volumes across the scale, or recovering soil previously tipped in Phases 3 & 4 Emerald Park implemented more dozers and had as many as three operating at one time.

EPL 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. One water truck were available and used during dry dusty conditions. Another water truck is dedicated to leachate hauling, leachate from the Future Parkland Facility was collected in the dedicated truck and used in recirculation at Emerald Park until June of 2020.

Equipment does require maintenance and at times does fail, there were no recorded incidents of the site not having suitable equipment active to conduct operational activities. The facility has not employed a staff mechanic since 2012, all equipment repairs are done by third party or minor work by capable staff.

In cold weather, frozen conditions the site excavator is used to dig out frozen loads. In previous years the backhoe has been dedicated to this purpose.

The Emerald Park 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 EPL requires. The sweeping events do not occur every week, however there were no Action Items pertaining to road conditions; though five (5) occurrences of tracking and nine (9) records of road debris; debris in the turn lanes and median are most commonly recorded. Emerald Park addresses street sweeping as far North as the intersection of US 45 and Loomis Road. In an answer to dealing with the site road conditions, especially the site entrance, the facility implemented the use of a back hoe to fill and grade pot holes with crushed stone; this condition extends back to 2017.

Working Face

EPL maintains a working face that is approximately one half (½) acre in size or smaller. Waste volumes dropped off in 2008 and the site volumes have fluctuated since, the volume balance of ~1,500 tons per day (TPD) supports the working face size. Weather conditions impact the working face size as well; during inclement weather the working face would be smaller. EPL operated working faces in Phases 7 North and 7 South for the receipt of MSW, special wastes, liquid loads, and C & D wastes; along with Phases 2 & 3 for the tipping of soils.

The soils, bio and landfill direct, working faces have been located on top of Phases 2 & 3 for more than ten years. The bio soil pile is in active remediation for future use on the site. Special wastes (Asbestos) and liquid loads are tipped in designated pits, within the MSW working face until filled and a new pit is established. Liquid loads were tipped predominantly into the working face in Phase 7 South from the top of slope; liquid loads receipt was terminated in June 2020.

Cover Material

The MSW working faces require the placement of daily cover. The facility employs soil and/or permitted alternative daily covers(ADC). The ADCs used at Emerald Park are auto-fluff, poly-fluff, compost, processed bio-soil, landfill direct soil, foundry sand, paper board, and tarps. Since late 2013 auto-fluff has been rarely available to the facility for ADC; in July the site started receiving auto-fluff for daily cover. For the rest of 2020 the site had stockpiled auto-fluff for ADC.

When possible C&D materials are used prior to cover to support the placement of cover and improve travel conditions within the active area. Wood chips, waste wood, unusable compost, etc are used in poor weather to improve travel upon the active area, but are not a part of cover.

The site must also maintain Intermediate cover over areas that are not in use or are not going to be in use. Intermediate cover is an additional twelve inches (12") upon the previously placed daily cover and there is no alternative intermediate cover. Intermediate cover requirements were all met and the primary focus location for intermediate cover was the West and South slope of Phase 7.

If the site did not have soils stockpiled from previous tipping, soil would be excavated from the future cell locations West of Phase 7.

Leachate Management

EPL 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 2020. No activities occurred to develop or maintain the current recirculation system. Emerald Park has not recirculated leachate in many years. The site does receive the leachate collected from Future Parkland's leachate tank and tipped in the liquid waste trench in the active area of EPL.

On May 21th it was discovered that the leachate levels, the height of leachate pooled on the liner of the landfill was in excess of State Statutes¹. The site management was informed by the a contractor and then EPL self reported to the WDNR. The WDNR responded with a letter of Notice of Noncompliance (NON) on May 28th., followed by a Notice of Violation (NOV). The site was not able to restore their good standing with the WDNR, the NOV was revoked on November 5, 2020.

On May 28th, a breech or seep occurred from Phase 7 South into the temp sed basin. This occurred at the elevation of the rainflap, very base of Phase 7 South's west slope. The seep was addressed immediately. The corrective action and cleanup requires draining of the temp sed basin by tanker truck and then removal of contaminated soils.

To restore the landfill leachate levels did not require the implementation of new systems or devices, the site used its existing system and 7 day/24 hour management to pump down the leachate to acceptable levels. Emerald Park also implemented tanker trucks, filter trailers, and contractors to correct the leachate volumes and clean the temp sed basin. The site did enter into discussions with the City of Muskego to improve the output of the lift station that removes the leachate from the EPL system into the public system.

Traditionally, landfills generate leachate from rainfall and the moisture already present in the waste. In design and operations the moisture content is rated at 25%, so ½ of the tipped waste is water. There is a certain amount of evaporation that happens at the working face, but that drops off as cover is placed and is non-existent after the placement of another lift of waste. In 2011 the facility received operation approval to take liquid loads. This approval was revoked by the NOV..

In 2011 thru 2017 the site received 0.6 million gallons of liquid waste per year, respectively. In 2018 the site received 4.7 million gallons and 5.9 mg in 2019. The order of magnitude leap in liquid volumes, coupled with higher rainfalls each year, has made Emerald Park Landfill very "wet", a high moisture content.

¹ Section NR 506.07(5)(a), Wis. Adm. Code states leachate shall be removed from all collection tanks, manholes, lift stations, sumps or other structures used for leachate storage as often as necessary to allow for gravity drainage of leachate from the facility at all times or as it is produced, including hours when the landfill is closed, such as overnight and weekends.

Section NR 504.06(1)(a), Wis. Adm. Code states all major phases of landfills initially accepting municipal solid waste after July 1, 1996, shall be designed with a composite liner and a leachate collection system capable of limiting the average leachate head level on the composite liner to one foot or less during operation and after closure of the landfill.



Gas Monitoring & Management System

In 2012, EPL completed the construction of the "Gas Building". The new facility at the site prepares the landfill gas(LFG) for distribution to MMSD via a pipeline. To make the gas usable at the target end of the pipeline, it must be cleaned, dried, and compressed. The facility removes the impurities from the LFG so that the pipeline is only carrying Methane. The construction of the facility included the relocation of the flare for destruction of the gas when the pipeline is not in use and an enclosed flare that is used to destruct contaminants.

During the majority of audits, JSA recorded that the facility was delivering gas to MMSD and the volume of gas received has been controlled and limited by MMSD restricting receipt of LFG. Halts on delivery of gas by EPL occurred during filter media changes, improvements and additions to the gas collection system, and when the gas did not meet MMSD specifications.

The facility installed new gas wells, both vertical and horizontal (trench), in three projects in 2020. The first spanning over from the end of 2019 into 2020. The first horizontal trenches that were installed in 2019 failed early in 2020 due to moisture content in the trench. Through out 2020 the site added pumps and maintained them to drain gas wells of leachate.

2019 and 2020 have had the highest incidence of odor about Emerald Park. Odors recorded off site were predominantly gas in nature and very "strong". The site used several techniques to track gas release and identify locations that needed improvement of collection or use of sealants.

Surface Water Management

EPL maintains three drainage basins and one temporary sedimentation basin² along with several thousand feet of conveyances. Emerald Park has maintained the conveyances and basins on an as needed basis. The ditches that collect runoff from Closures I thru III are well vegetated and maintained. Basin 1 had been cleaned and a new control structure placed in 2019, completed just before 2020 began. Basin 1's condition is important as it receives all the water pumped from the temp sed basin.

The temp sed basin was remodeled in June thru August of 2020 to restore and improve its operations after it was contaminated by a seep. The new configuration is deeper and wider with more gradual topography. A new six inch pump was added to the operation.

JSA records erosion conditions under stormwater management. As the site has under gone partial closure projects, the erosion occurrences have been reduced. The slopes of all closure areas are in good condition and without erosion. The only "open" slopes that erode are those of Phase 7 and a small portion of the South slope of Phase 6.

EPL has not met the requirements of the City of Muskego Chapter 35 Stormwater Ordinance. EPL has not submitted a Schedule of Maintenance.

Odor Control

Auditors record the presence of off site and on site odors; in 2020 there were eighteen (18) occurrences of off site odors and thirty (30) on site odors. The offsite odors were landfill gas and garbage odors. The majority of on site odors were the detection of LFG odors on the access road to the working face in Phase 7. Once the site started receiving auto-fluff, auto-fluff odors were detected off site.

² Excavation along South and West slope of Phase 7

In addition to the odors recorded in audits, JSA Environmental recorded one hundred sixty eight (168) individual complaints³, which occurred on one hundred twenty eight (128) separate days. In 2019 the odor complaints were one hundred thirteen (113) individual complaints, which occurred on sixty five (65) separate days. 2020 by far has the worst record for odors at and about Emerald Park.

The site implemented many changes to deal with odors, new collection wells, vacuum improvements, etc. The odor issues continued into 2021.

Special Waste Handling

Waste profiles, sampling, and protocols are done off site from the EPL Facility. This item remains on the audit should a new waste be accepted.

EPL receives asbestos, soils, and liquids as special wastes. EPL ceased receiving liquid wastes as of May 28th, 2020.

Litter Control

EPL 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. EPL also hires litter pickers to gather litter both on and off site.

One of the impact of COVID-19 has been to reduce the available temporary labor services and the need to minimize labor active in small areas or enclosed spaces, such as a truck cab. EPL maintained two pickers for most days of operations with increases when necessary during and after wind events.

The mobile fencing was used in the active area throughout 2020. Off site litter is recorded, if present, during an audit. If the litter is present in the subsequent audit an Action Item is issued. The site employs one pickers daily and additional pickers are hired when needed. Litter in trees occasionally occurs on site and it make take several weeks for the facility to provide contractors to adequately remove the litter

Vehicle Impacts

EPL sweeps US 45 when required by road conditions. When sweeping is done, EPL sweeps as far North as the intersection of US 45 and Loomis Road to address concerns by the residents along that stretch and motorists. Emerald Park also enforces sweeping to be done by the second party excavators during back hauls and clay removals.

There were instances of debris and tracking on Highway 45 during the operational history of 2020, but no Action Items. Similarly, the roads of the facility are experiencing wear especially at the entrance. The potholes at the entrance of the facility are becoming progressively larger and harder for the operation to maintain with crushed stone.

Inspection of incoming waste

Emerald Park uses several cameras, visible to the scale operator in addition to recording manifests, 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. EPL does not make use of spotters nor does it have working faces that are not monitored by EPL 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

³ Complaints made by email or phone call, which were shared with JSA Environmental.



per week. The random loads inspections were routinely performed once per week throughout 2020, a minimum of two was not always conducted. In later 2020 the site was not managing 5,000 tons per week, but weekly random loads were conducted.

Rejected Loads

Rejected loads have become very infrequent; not just at Emerald Park, but also within the industry; due to improved manifests, waste screening, and overall integrated waste management. However, in 2020 the site reject a roll-off load due to tires hidden in the load. Rubber tires, of any kind, are not permitted in landfills.

Contractors Audit

In 2020 EPL engaged the services of Environmental Sampling Corp. (ESC), Mueller Excavating, Terra, New Berlin Excavating, Cornerstone, Landfill Drillers, and SweepAll to aid in the construction and maintenance at the site. The activities of all contractors were recorded during audits.

Action Items

There were Two Action Items recorded in 2020

- Leachate levels above maintenance levels Section NR 506.07(5)(a), Wis. Adm. Code states leachate shall be removed from all collection tanks, manholes, lift stations, sumps or other structures used for leachate storage as often as necessary to allow for gravity drainage of leachate from the facility at all times or as it is produced, including hours when the landfill is closed, such as overnight and weekends.
- Leachate Seep into Temporary Sedimentation Basin Section NR 504.06(1)(a), Wis. Adm.
 Code states all major phases of landfills initially accepting municipal solid waste after July 1,
 1996, shall be designed with a composite liner and a leachate collection system capable of
 limiting the average leachate head level on the composite liner to one foot or less during
 operation and after closure of the landfill.

Emerald Park Landfill has not completed a Chapter 35 Stormwater Permit application or the required Stormwater Maintenance Plan







ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 01/04/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of December 29, 2019. The audit was performed at 1:58 PM on **January 3, 2020** by Jo Spear, Jr. in the presence of Micheal Hackney, General Manager.

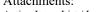
The weather conditions were overcast skies and potential for rain, though none occured

Landfill Operations Audit:

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

The operation required the use of one compactor, one dozer, and one excavator. The excavator was not active during the audit

- A) Working Face and Location
 - Working face was in the Northwest corner of Phase 7 South against the South slope of Phase 7 North
 - It appears that Phase 7 North is approximately one lift taller than Phase 7 South
 - Daily cover consists of mixed MRF seconds, sand, and site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering 1,100 cfm of Methane to MMSD
 - Flare destructing 1,200 cfm of LFG
 - MMSD Controlling flow volumes
 - Media change for H2S filters completed in December, Siloxane filters to be changed at end of month
- D) Surface Water Management
 - Three inch snow event in previous week, snow all melted leaving site wet and thawing
 - Basin thawing, plenty of freeboard
 - New erosion minimal
- E) Odor Control
 - No odors offsite, strong gas odors on active area, but not about site
- F) Liquid Loads
 - Tipped in working face
- G) Litter Control
 - One litter picker active on site, operating Resi-drop off during audit





- Site litter minimal
- H) Vehicle Impacts
 - US 45 and Union Church clean
 - Except that both landfill entrances have heavy mud tracking, the majority generated at WMWI
 - Site roads rough and wet
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,400 TPD of MSW
 - Random Load Inspection last performed 1/03/2020
 - Waste consists of MSW, C&D, and Special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - Open during audit
 - E-Waste Container present
 - Site mostly clean and low use during audit
- L) Other Comments
 - New wells, nine, drilled and constructed about landfill. One well currently added to vacuum system. All vacuum system improvements expected to be completed by January 20th, 2020.
 - Gas wells that are abandoned are being replaced by nearby well installations.
 - No new odor complaints in 2020

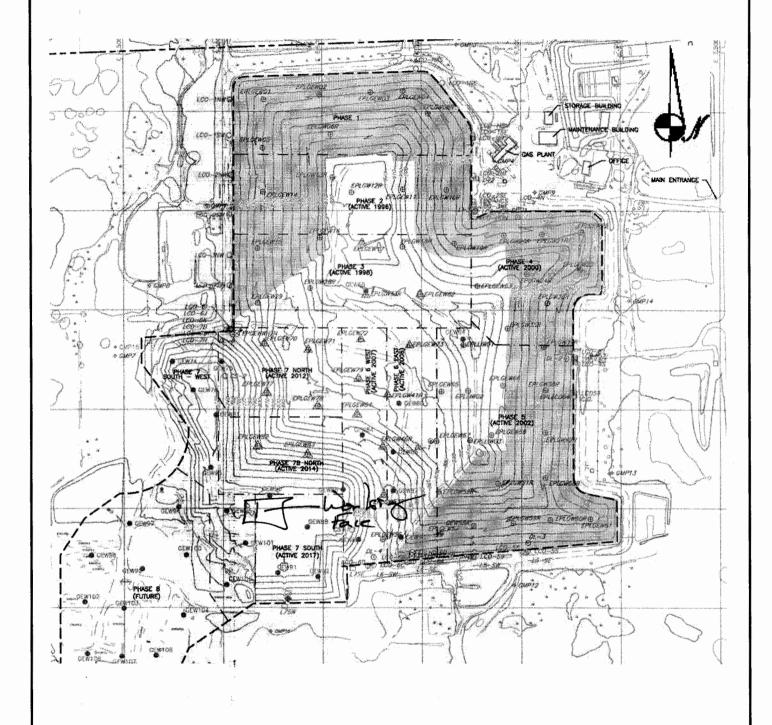
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MAJOR	EQUIPMENT USED IN LA	NDFILL OP	ERATIONS				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
	Compactor						
	Dozer						
1	Excavator						
	Haul Truck						
	Water Truck						
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		Land	dfill Operations	Audit For	m		Page 1 of 5

	Cover Material: WRF Scrowds, sound, and on site soils
3.	Leachate Management: Discharge to MMSD Recirculation Phases:
.	Gas Monitoring and Management: Check appropriate box. Flares in Operation: YES NO # Blowers in Operation: YES NO # Flare use since last audit # Shutdowns Since Last Audit: # Total Number of Wells # Under vacuum #
	Shutdowns Since Last Audit: # 8 Total Number of Wells # Under vacuum # Flow to MMSD: # 1,100 cfm Comments: MMST Cox trolleng flows Comments: Silver of the control of
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: Site medical basis medical basis and the structures of the structure of the stru
<u>.</u>	Odor Control: Odors Present: Comments: Onsite Onsite Onsite Onsite Onsite Onsite Onsite
₹.	Liquid Loads Received: Tipped in thuse of South
	Landfill Operations Audit Form Page 2 of 5

		-
G.	Litter Present Onsite: YES NO Litter Present Offsite: YES NO V Pickers Active: YES NO H Comments:	
н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads. US +5	
I.	Inspection of incoming Waste: Scale Camera Operator: YES MO H Equipment Operator: YES NO H 3 Spotter: YES NO H 4 Random Load Inspection Dates: O / 23/220 Form Tonnage: Comments:	
J.	Rejected Loads: Date/Time Reason for Rejection	
K.	Residential Drop Off: Open During Audit Residential Drop Off: Open During Aud	
	Landfill Operations Audit Form Page 3 of 5	

L. Other Comments:	
constructed. One currently contract to Dacum, Other Vacuum en a tem changes to be all completed by	son 20th
Weather semilled permitted	
Do complaints = made sofer in 2 * Some well abandonicat in conjunction	
with sew wells	
Auditor's Signature:	Date: 1/3/2020
Auditor's Printed Name: Management Signature: Management Printed Name: Management Title: JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030

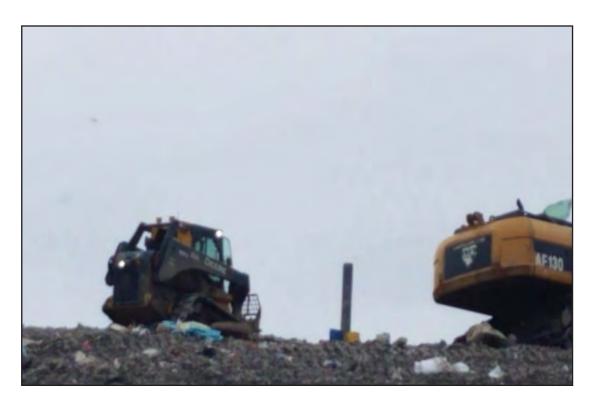


South slope of Phase 7 South, two new wells and well to be abandoned.





New well installed on Phase 7 South, South slope



New well, last well to drill, being installed near Southwest corner of Phase 7 South



Cason well attached to gas collection system



Phase 7 North, intermediate cover and pipe awaiting welding and use in gas collection system



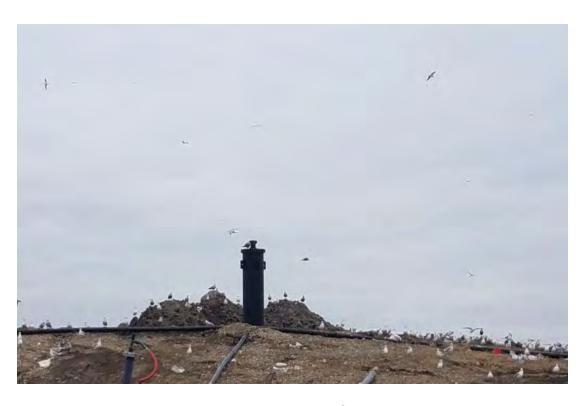
Existing cason well in Phase 7 North



Active area viewed from the North



Working face in Northwest corner of Phase 7 South



New gas well on top of Phase 5

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 01/08/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of January 5, 2020. The audit was performed at 9:14 AM on **January 8, 2020** by Jo Spear, Jr. in the presence of Micheal Hackney, General Manager.

The weather conditions were clear, bright and sunny; with wind gusting out of the Northwest

Landfill Operations Audit:

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

The operation required the use of one compactor, one dozer, and one excavator.

- A) Working Face and Location
 - Working face was in the Northwest corner of Phase 7 South against the South slope of Phase
 7 North and nearly at a matching elevation
 - Daily cover consists of mixed site soils and ADC
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Due to oxygen content in the LFG no delivery to MMSD
 - Flare destructing 2,200 cfm of LFG
 - One new well connected to system
- D) Surface Water Management
 - · No prior events
 - · Site freezing, no flowing water, basins have freeboard
- E) Odor Control
 - Minor gas odor on US45 and 8 Mile Road.
 - Odors at working face
- F) Liquid Loads
 - Tipped in active area, away from slope
- G) Litter Control
 - One litter picker active on site, active in parking lot during audit
 - Litter present about active area due to gusting winds
- H) Vehicle Impacts
 - US 45 and Union Church clean
 - Site roads rough, but clean

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,400 TPD of MSW
 - Random Load Inspection last performed 1/03/2020
 - Waste consists of MSW, C&D, and Special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - Closed during audit
 - E-Waste Container present
 - Site mostly clean
- L) Other Comments
 - Contractor welding pipe for vacuum connections
 - Contractor excavating in Phase 6 South slope to find oxygen issue
 - Site employees excavating on West slope of Phase 7 South to address oxygen issue
 - Three seeps, below access road, on West slope of Phase 7 South. Will be addressed by placement of horizontal gas collection trenching by 1/20/2020

		ADVANCI	ED DISPOS	AL SERVICES	EMERA	LD PARK LANDFIL	L		
	LANDFILL OPERATIONS AUDIT FORM								
	CITY OF MUSKEGO								
	PROJECT NO. 1020.10030 .								
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		Haul Truck							
		Water Truck							
		Grader							
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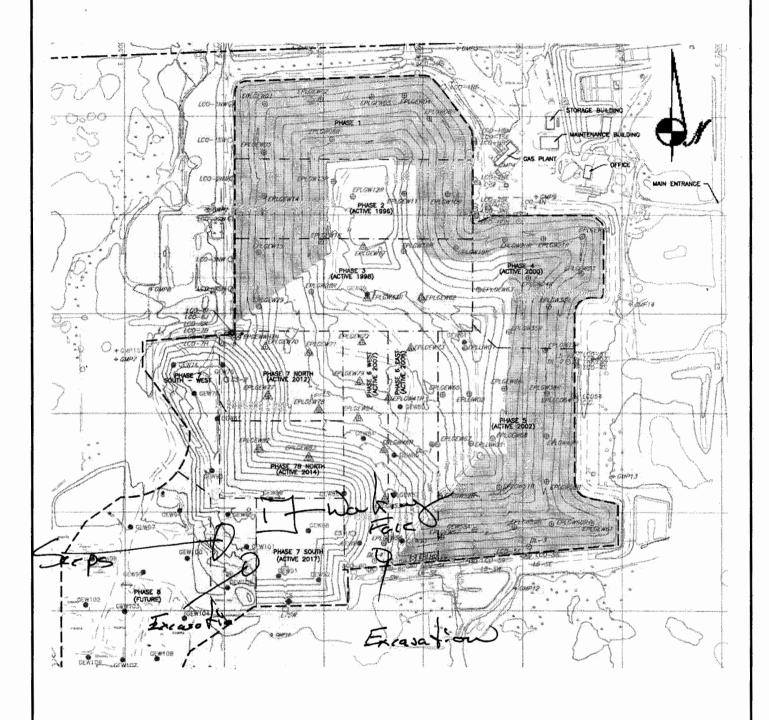
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	Cover Material:
	Sile & ADC
	CSI'S MAD
В.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES NO # 1
	Blowers in Operation: YES V NO # 1 1
İ	Flare use since last audit # Flare To use las taudit
	Shutdowns Since Last Audit: # Madelmen
İ	Total Number of Wells # Under vacuum #
	Flow to MMSD: { lare # 2,200 cfm +
l	Comments:
	Vacuum changes ongoing, well of I added to system
	High Oz values preventing delivery
D	Surface Water Management: Storm Events Since Last # 6 Est. Volume
J.	
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste control structures.
	Site treezing again, No + lowing water
`	Fasins have transpard but No Decip expected
	J. Company of the com
E.	Odor Control:
	Odors Present: Onsite Offsite
l	Comments:
١	M: Nor odor on USAS sery M: 11 , odors on BM: le as will
F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

G	Litter Control:
	Litter Present Onsite: YES MINO
	Litter Present Offsite: YES NO I
	Pickers Active: YES YOU # 1
	Comments: 1/ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	active area
	actioc area
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
	Us454 Union Church clear
	43737 Chian C-101-24 Cream
	Dite roads, rough but clear
	Increation of incoming Waster
l.	Inspection of incoming Waste: Scale Camera Operator: YES 70 7 #
	Equipment Operator: YES NO #
	Spotter: YES NO / #/
	Random Load Inspection Dates: O 1/03 (LOZO Form L
	Tonnage: 1,400 TPD
	Comments:
	MSW CAD Social
J.	Rejected Loads:
	Date/Time Reason for Rejection
	2.
K.	Residential Drop Off: Open During Audit
Λ.	Residential blob off. Toper boiling Addit [E-Wasie Container Flesent
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	Landfill Operations Audit Form Page 3 of 5

L. Other Comments: L'acum connections	
South slope to find oxygen	•
of Place 7 South to address Ox	ope usew
Slope of these of South Willow addressed by placement of norigon gus colection by 100 2020	Ist.
Auditor's Signature: Auditor's Printed Name: Management Signature: Management Printed Name: Management Title: JSA Principal Signature:	Date: 18/10 Date: 18/10
Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Site employees investigating location of possible oxygen intrusion to gas collection system





12" HDPE pipe welding, ongoing, to connect gas system to wells



Contractor staging area on Phase 7 North



Working face in Northwest corner of Phase 7 South viewed from the North



Compactor working in Phase 7 South, against Phase 7 North, nearly same elevation



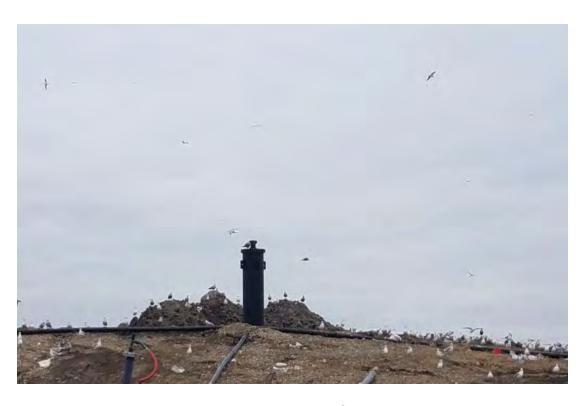
Existing cason well in Phase 7 North



Active area viewed from the North



Working face in Northwest corner of Phase 7 South



New gas well on top of Phase 5

Opened:	Updated:	01/09/2014 - Cleared
Орспса.	opdated.	01/03/2014 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 01/17/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of January 12, 2020. The audit was performed at 1:01 PM on **January 17, 2020** by Jo Spear, Jr. in the presence of Micheal Hackney, General Manager.

The weather conditions were overcast and darkening, with winds out of the Southeast. An ice and snow event is expected for the evening

Landfill Operations Audit:

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

The operation required the use of one compactor, one dozer, and one excavator.

- A) Working Face and Location
 - Working face was in the middle, roughly, of Phase 7 South and at an elevation similar to Phase
 7 North
 - Daily cover consists of mixed site soils and ADC
 - Several caisson wells in Phase 7 will need to be raised prior to placement of next lift
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering half LFG to MMSD, 1,200 cfm
 - Flare destructing 1,100 cfm of LFG
 - MMSD controlling flow of gas
- D) Surface Water Management
 - Ice and snow event on 1/10 1/1
 - Site and basins frozen, no flowing water on site
- E) Odor Control
 - No off site odors
 - Odors at working face, typical LFG odors
- F) Liquid Loads
 - Tipped in active area, away from slope
- G) Litter Control
 - One litter picker active on site, active operating resi-drop-off area
 - Litter present about active area due to gusting winds
- H) Vehicle Impacts

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- US 45 heavily tracked on Northbound lane and WMWI Entrance
- Site roads rough
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,500TPD of MSW
 - Random Load Inspection last performed 1/17/2020
 - Waste consists of MSW, C&D, Special wastes, and one day of soils
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - Open during audit
 - E-Waste Container present
 - · Site mostly clean with boxes filling
- L) Other Comments
 - Contractor not active due to weather conditions
 - Site manager and committee members in meeting prior to audit
 - Gas system improvements
 - All vertical wells installed and connected to vacuum
 - Horizontal well construction will be completed in the coming week
 - Seeps to be repaired with installation of horizontals
 - Airline repairs ongoing

	ADVANC	D DISPOS	AL SERVICES	EMERA	LD PARK LANDFII	Ĺ	
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	CITY OF MUSKEGO						
PROJEC ¹	T NO. 1020.10030						
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	Excavator						
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	Cover Material: MRF Seconds & Solls
3.	Leachate Management: Discharge to MMSD Recirculation Phases:
C.	Gas Monitoring and Management: Check appropriate box. Flares in Operation: YES DO B # 1 Blowers in Operation: YES DO B # 1 Flare use since last audit #
Э.	Surface Water Management: Storm Events Since Last # 1 Est, Volume EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations Technology According to the perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations Site & Basius frozen
Ξ.	Odor Control: Odors Present: Comments: Ap offsite Off
₹.	Liquid Loads Received: Tipped in Adve Area

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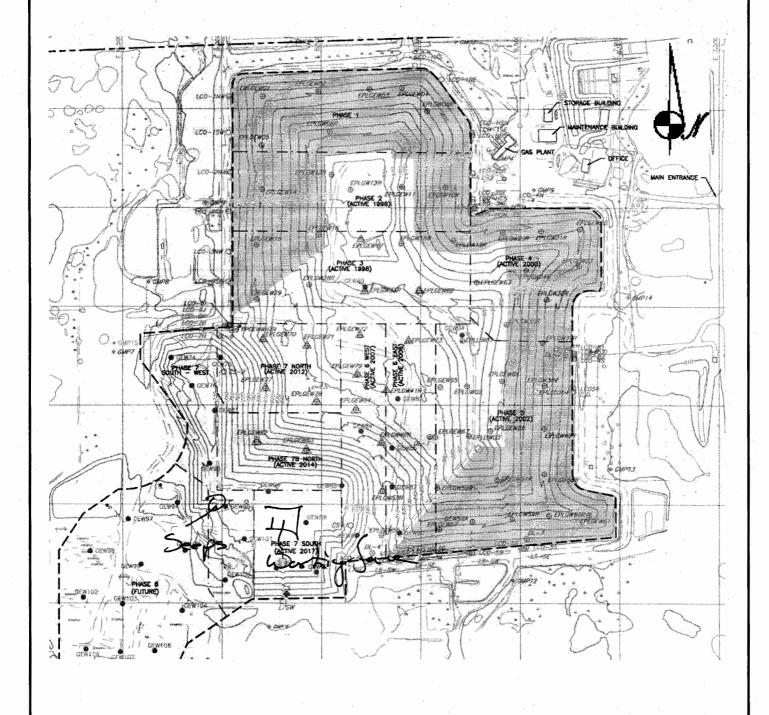
G. Litter Control: Litter Present Onsite: YES NO DELITE Present Offsite: YES NO DELITE Present Offsite: YES NO DELITE Present Offsite: YES NO DELITE PROBLEM NO DELITE PROBLE	
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H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control med taken, instances of trucks on County reads.	isures
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	No.
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Equipment Operator: YES VNO # 3	*
Spotter: YES NO / # /	
Random Load Inspection Dates: L/17/20 Form L	
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Comments:	30 1
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J. Rejected Loads:	<u> </u>
Dațe/Time Reason for Rejection	
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K. Residential Drop Off: Open During Audit F-Waste Container Present	
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Landfill Operations Audit Form. Pa	ge 3 of 5

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L. Other Comments:	
* No abor complaints since 1/8/20	
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of Gas System improvements	
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Management Signature: / Muchan Huckney	Date: 1/7/10
Management Title:	Doing
JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from the North, no good access point to take pictures during this audit





Active tipping in Phase 7 South, roughly the middle



Active area viewed from the North



Daily cover stockpile in Phase 7 South viewed from the North

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 02/04/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of January 19, 2020. The audit was performed at 1:18 PM on **January 24, 2020** by Jo Spear, Jr. in the presence of Chad Seigle, Site Manager.

The weather conditions were overcast with heavy fog, some rain and limited visibility. Additional precipitation expected throughout the day/night.

Landfill Operations Audit:

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

The operation required the use of one compactor and one dozer, which is a rental vehicle

The site has a Compactor, Dozer, and Exacavator under repairs

- A) Working Face and Location
 - Working face was in the middle, roughly, of Phase 7 South and at an elevation similar to Phase
 7 North
 - Daily cover consists of mixed site soils and ADC
 - Active area obscured by fog
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
- D) Surface Water Management
 - Snow and rain event this week, more rain and/or snow expected this evening and over weekend
 - Site and basins frozen, no flowing water on site
- E) Odor Control
 - Minor odor on US 45 South of facilty
 - Odors at working face, typical minor LFG odors
- F) Liquid Loads
 - Tipped in active area, away from slope
- G) Litter Control
 - One litter picker active on site, operating resi-drop-off

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- No litter visible due to conditions and snow
- H) Vehicle Impacts
 - US 45 gritty due to weather conditions
 - Site roads rough and potholed, especially entrance
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,200TPD of MSW
 - Random Load Inspection last performed 1/24/2020
 - Waste consists of MSW and C&D
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - Open during audit
 - E-Waste Container present
 - Site obscured by fog, mostly clean
- L) Other Comments
 - Contractor not active due to weather conditions
 - Horizontal gas extraction not yet installed due to weather conditions. To be completed by end of February
 - Seeps on West slope of Phase 7 North no longer present, self drained and healed.
 - Gas system improvements
 - Air lines run across top of Phase 7 to bypass air supply issues to Southeast corner of landfill

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL

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	Cover Material: Orsite Pand Mired ADC
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В.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES VO # (
	Blowers in Operation: YES MO MO # 1
	Flare use since last audit #
	Shutdowns Since Last Audit: #
	Total Number of Wells # 4// Under vacuum # 4/
	Flow to MMSD: # cfm
	Comments:
	MMSD controlling flow
	All was wells converted and being brought to
	Max Dacuum over fine
	the same of the sa
D.	Surface Water Management: Storm Events Since Last # Z Est. Volume ~27
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm
	water/waste contact locations:
	Thought is week. More show
	or rain expected over wekend,
	Site and pasins troser
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_	Odor Control:
E.	Oddi Collinoi.
	Odors Present: Onsite Offsite
	Comments:
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F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5
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G.	Litter Control:
	Litter Present Onsite: YES NO 🗹
	Litter Present Offsite: YES NO V
	Pickers Active: YES ✓ NO □ # I
	Comments:
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11.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
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	Site roads rough and to holed
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I.	Inspection of incoming Waste:
	Scale Camera Operator: YES # 1
	Equipment Operator: YES VNO U # 3
	Spotter: YES NO 1/ #
	Random Load Inspection Dates: \(\lambda \frac{1}{24} \frac{1}{20} \) Form
	Tonnage: 1,200 +>>
	Comments:
	MSW, CAD
J.	Rejected Loads:
	Date/Time Reason for Rejection
	2.
Κ.	Residential Drop Off: Open During Audit
	Observed by too youth claw
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	Landfill Operations Audit Form Page 3 of 5

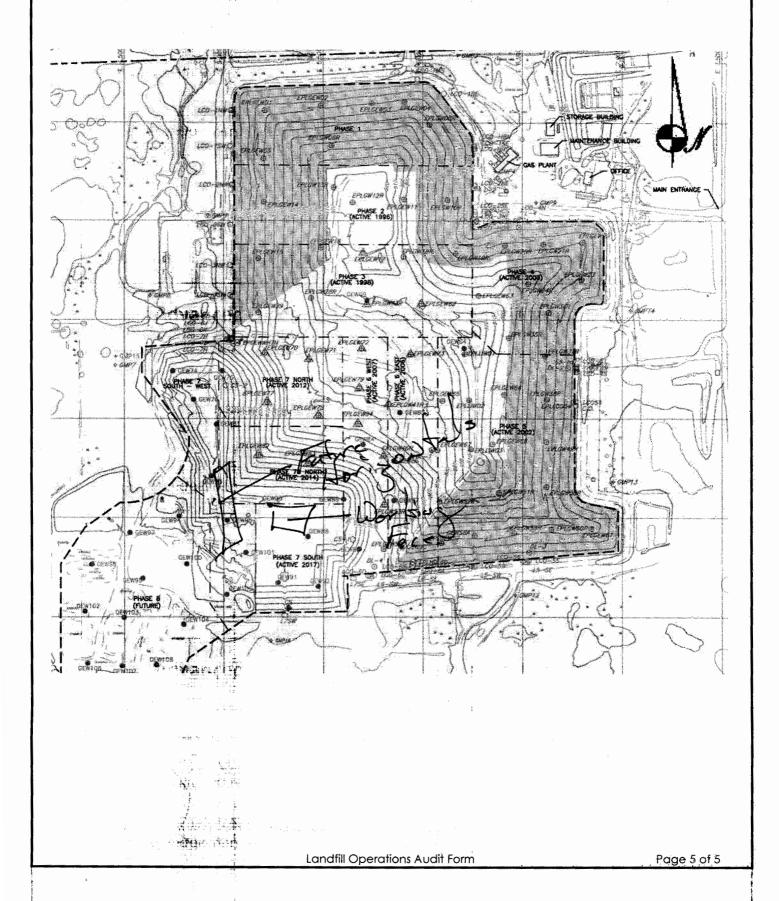
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Landfill Operations Audit Form	Page 4 of 5

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Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from the North. Cover stockpile to left





Mixed alternative daily cover (ADC) stockpiled for future cover

Camera issues occured this audit. Visibility too poor for good quality photos regardless

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 02/04/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of January 26, 2020. The audit was performed at 12:20 PM on **January 30, 2020** by Jo Spear, Jr. in the presence of Michael Hackney, General Manager.

The weather conditions were complete cloud cover with possible flurries

Landfill Operations Audit:

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

The operation required the use of one compactor and one dozer, which is a rental vehicle

The site has a Compactor and Dozer are under repairs

- A) Working Face and Location
 - Working face along Phase 6 and 7 South interface bringing Phase 7 South up to Phase 7
 North grades. Next Lift will start at South end of Phase 7 South
 - Daily cover consists of mixed site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD ~ 1,200 cfm
 - MMSD controlling flow of gas ~ 1,300 cfm
- D) Surface Water Management
 - Site snow covered
 - Site and basins frozen, no flowing water on site
- E) Odor Control
 - · Odor on access road only
- F) Liquid Loads
 - Tipped in active area, away from slope
- G) Litter Control
 - One litter picker active on site
 - No litter visible due to conditions and snow
- H) Vehicle Impacts
 - Both landfill site entrances have heavy tracking
 - US 45 tracked in both lane directions

Attachments:



- US 45 gritty due to weather conditions
- Site roads rough and potholed, especially entrance
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 2,500 TPD of MSW, C&D, and Large soil project
 - Random Load Inspection last performed 1/24/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Clean site, boxes half full or empty
- L) Other Comments
 - Horizontal wells to be installed next week on West slope of Phase 7 North
 - All vertical wells are connected to system and vacuum being increased over time
 - Roll off boxes being stored on active area until excavator is available to dig out the frozen loads, to be done today
 - One caisson well in Phase 7 South raised for future waste placement

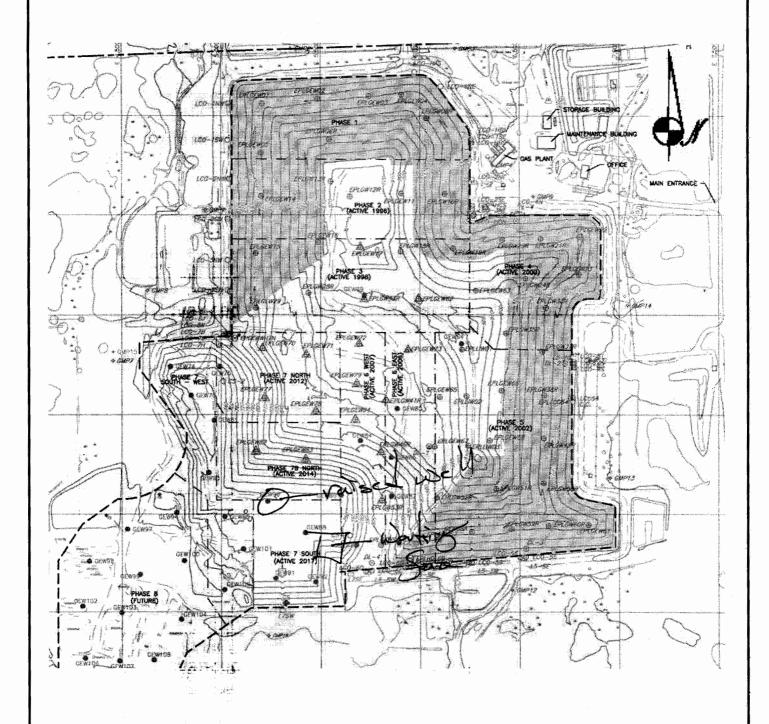
ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 TIME 12:26 DATE January 30, 2020 Close Auditor on site at: Open PREVIOUS DATE: January 24, 2019 Completed °F Minimum B.P. 30.21 TEMP Maximum MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented No. Contracted DESCRIPTION Rented Contracted Compactor Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD Maintenance No. DESCRIPTION DESCRIPTION Broken Broken Maintenance A. Working Face Size and Location: Landfill Operations Audit Form Page 1 of 5

	Cover Material:
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ь.	Leachate Management: Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES MO # 1
	Blowers in Operation: YES YNO # /
İ	Flare use since last audit #
	Shutdowns Since Last Audit: #
	Total Number of Wells # Under vacuum # AU Flow to MMSD: # — 1, 200 cfm
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E.	Odor Control:
	Odors Present: Onsite Offsite
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F.	Liquid Loads Posoivods
Γ.	Liquid Loads Received:
	- Contract of the contract of
Ì	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES VNO .
	Litter Present Offsite: YES NO V
	Pickers Active: YES V NO # (
	Comments: , , , /
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н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
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ı	Inspection of incoming Waster
ł.	Inspection of incoming Waste: Scale Camera Operator: YES 7 # #
	Equipment Operator: YES NO #
	Spotter: YES NO W, #
ŀ	Random Load Inspection Dates:
	Tonnage: 7,500 TPD
	Comments:
	Large soil Drivert contry in Mow, CAD, and & Decial
J.	Rejected Loads:
ŀ	Date/Time Reason for Rejection
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	2. Nanc
ĸ.	Residential Drop Off: Open During Audit E-Waste Container Present
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	Landfill Operations Audit Form Page 3 of 5
ı	Editable Operations Addition 1 age of the

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Management Signature: Well Management Printed Name: Date: 132
Management Title: 6M Date:
Landfill Operations Audit Form Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Well in West slope of Phase 7 South, well actively being pumped to remove water and allow gas collection





West slope of Phase 7 South



West slope of Phase 7 South, odor area



Tipped soil being stockpiled on Phase 3 for future use



Additional alternative daily cover stockpiles



ADC stockpiled for use



Roll offs and truck with frozen loads

Opened:	Undated:	01/09/2014 - Cleared
Opened.	Opdated.	0 1/03/20 14 - Olcarca

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





ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 02/04/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of February 2, 2020. The audit was performed at 10:57 AM on **February 3, 2020** by Jo Spear, Jr. in the presence of Michael Hackney, General Manager.

The weather conditions were complete cloud cover with possible flurries

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

The site has an excavator under repairs

- A) Working Face and Location
 - Working face at South end of Phase 7 South, finishing off lift elevations
 - Daily cover consists of mixed site soils and other ADC
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - No events since last audit
 - Basins frozen, but site thawing due to warm weather
- E) Odor Control
 - Minor gas odor on Union Church Road
 - Onsite odor on access road to Phase 7
- F) Liquid Loads
 - Tipped in middle of Phase 7 South
- G) Litter Control
 - One litter picker active on East slope of Phase 5
 - Litter on site slopes due to changing wind directions
- H) Vehicle Impacts
 - US 45 being swept during audit, contractor employed by WMWI

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- Site roads rough
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 2,000 TPD of MSW, C&D, and Large soil project
 - Random Load Inspection last performed 1/30/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Clean site, boxes all full to overflowing
- L) Other Comments
 - No contractors active today
 - Horizontal gas extraction wells/trenches to be installed this weekend when truck traffic is at a minimum
 - Gas system dialing up as time passes to maximize vacuum at each well

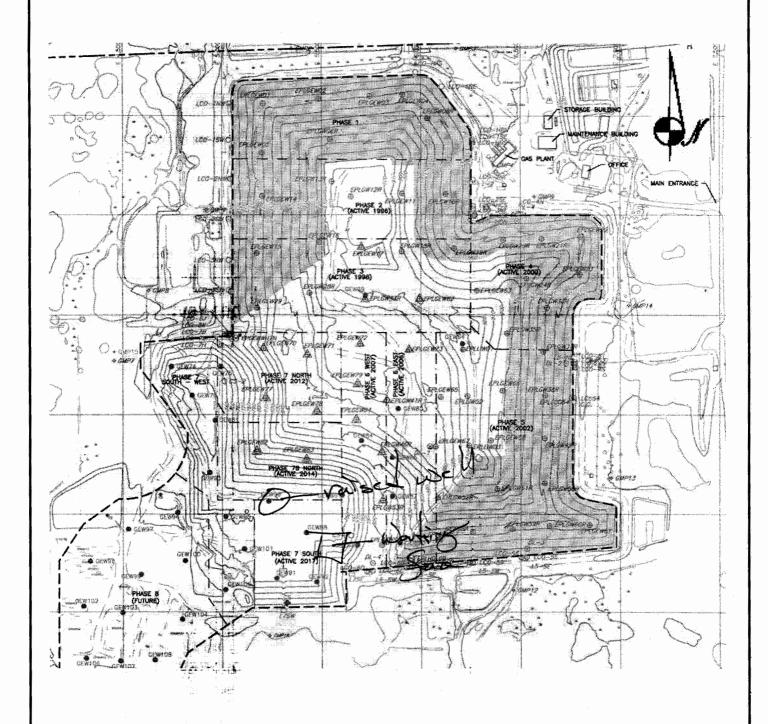
ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 TIME 12:26 DATE January 30, 2020 Close Auditor on site at: Open PREVIOUS DATE: January 24, 2019 Completed °F Minimum B.P. 30.21 TEMP Maximum MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented No. Contracted DESCRIPTION Rented Contracted Compactor Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD Maintenance No. DESCRIPTION DESCRIPTION Broken Broken Maintenance A. Working Face Size and Location: Landfill Operations Audit Form Page 1 of 5

	Cover Material:
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C.	Gas Monitoring and Management: Check appropriate box.
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	Shutdowns Since Last Audit: #
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E.	Odor Control:
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F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES VNO
	Litter Present Offsite: YES NO V
	Pickers Active: YES ✓ NO ☐ # (
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ł.	Inspection of incoming Waste:
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	Equipment Operator: YES NO #
	Spotter: YES NO W, #
	Random Load Inspection Dates:
	Tonnage: 7,500 TPD
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J.	Rejected Loads:
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l	Landfill Operations Audit Form Page 3 of 5

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Management Signature: Melini Michael Da	te: 1/32/29
Management Title:	
JSA Principal Signature: Da	te:
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Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Well in West slope of Phase 7 South, well actively being pumped to remove water and allow gas collection





West slope of Phase 7 South



West slope of Phase 7 South, odor area



Tipped soil being stockpiled on Phase 3 for future use



Additional alternative daily cover stockpiles



ADC stockpiled for use



Roll offs and truck with frozen loads

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 02/20020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of February 9, 2020. The audit was performed at 11:35 AM on **February 14, 2020** by Jo Spear, Jr. in the presence of Scott Croft, Landfill Technician.

The weather conditions were clear and sunny with high winds

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

The site has an excavator under repairs

- A) Working Face and Location
 - Working face at South middle of Phase 7 South, moving Northward
 - Several dusty loads during audit and working face was kept smll
 - Daily cover consists of mixed site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,400 cfm
 - Well field vacuum still under development
- D) Surface Water Management
 - Two snow events since last audit
 - Basins frozen and site mostly snow covered
- E) Odor Control
 - Minor gas odor on Union Church Road
 - Odors, of gas, on and offsite and working face and along US 45
- F) Liquid Loads
 - Tipped in working face
- G) Litter Control
 - One litter picker active in Resi-drop off
 - Minimal litter due to snow cover

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- H) Vehicle Impacts
 - US 45 and 8 Mile clean
 - Site roads rough
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 2,200 TPD of MSW; previous soil load on hold for today
 - Random Load Inspection last performed 2/14/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Clean site and low use during audit
- L) Other Comments
 - Only one horizontal gas extraction trench completed
 - Second trench to be installed as weather allows
 - No Management available on 2/13/2020 odors were recorded on US 45

	ADVANCE	DISPOS	AL SERVICES	ENTEDA	LD PARK LANDFIL	. <u></u>	
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2	Dozer						
	Excavator					İ	
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	Water Truck						
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Landfill Operations Audit Form

Page 1 of 5

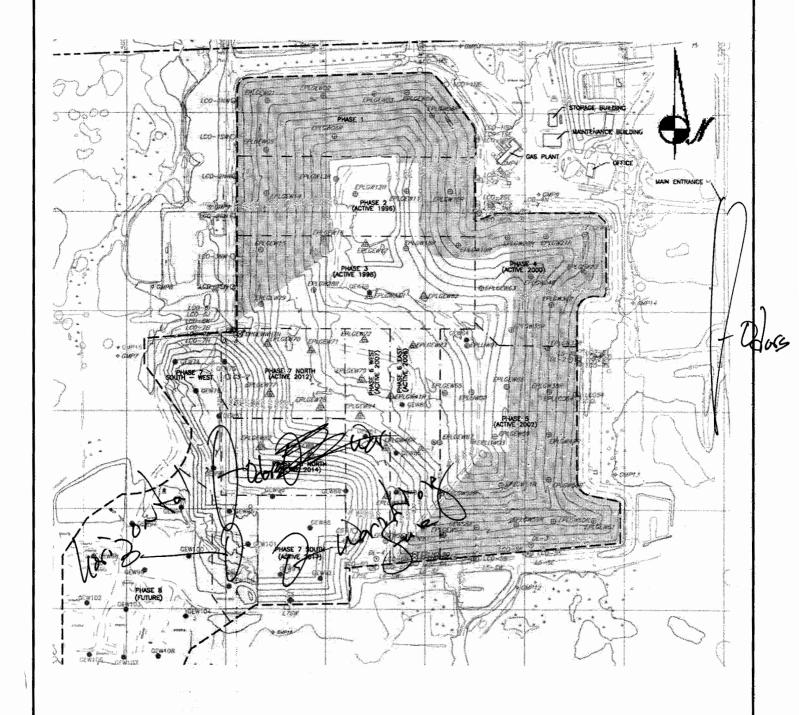
	Cover Material:
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	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES 1
	Blowers in Operation: YES V NO #
	Flare use since last audit #
	Shutdowns Since Last Audit: #
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	Comments:
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	work still being descripted to make possible
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D.	Surface Water Management: Storm Events Since Last #2 Est. Volume -14
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E.	Odor Control:
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	Landfill Operations Audit Form Page 2 of 5

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	Landfill Operations Audit Form Page 3 of 5

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Auditor's Signature: Auditor's Printed Name: Management Signature: Management Printed Name: Scott Croff	Date: 2/14/2020
Management Title: Landfill Tech JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Fences placed to account for high winds





Working face



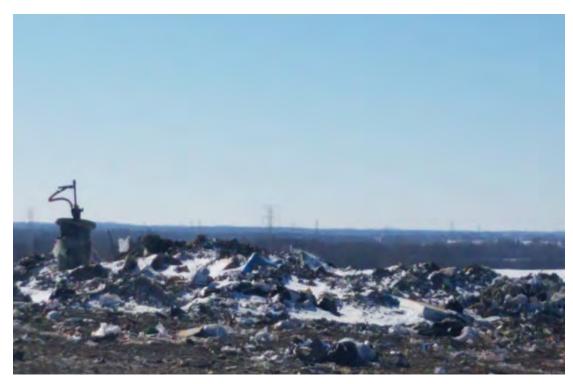
Working face



Compactor being cleaned out after dusty loads



Active area, well covered from previous working faces



Previous covered waste and raised well

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 02/24/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of February 16, 2020. The audit was performed at 2:55 PM on **February 20, 2020** by Jo Spear, Jr. in the presence of Michael Hackney, General Manager.

The weather conditions were clear, sunny and cold

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

- A) Working Face and Location
 - Working face in Southeast corner of Phase 7 South
 - No other working faces
 - Daily cover consists of mixed site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
 - Site experienced consistent gas volume since last audit
- D) Surface Water Management
 - Two small snow events since last audit
 - Basins frozen and site snow covered
- E) Odor Control
 - Gas odor on access road only
- F) Liquid Loads
 - Tipped in trench in Phase 7 South
- G) Litter Control
 - Minimal litter due to snow cover
- H) Vehicle Impacts
 - US 45 and 8 Mile clean
 - Site roads clean, entrance rough

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 2,300 TPD of MSW; expected large soil project in future
 - Random Load Inspection last performed 2/14/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Clean site and boxes being emptied during audit
- L) Other Comments
 - Only one horizontal gas extraction trench completed
 - Second trench construction started, expected completion on 2/23/2020
 - Existing seeps on West slope of Phase 7 will be addressed with trench construction

	ADV:ANCE	DISPOS/	AL SERVICES EMÉRA	ALD PARK LANDFI	LL	
		LANDFILL	OPERATIONS AUDI	T FORM		
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D.	Surface Water Management: Storm Events Since Last # 2 Est. Volume 2/4
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	Landfill Operations Audit Form Page 2 of 5
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Auditor's Printed Name: // Jon Walter Spear, Jr., P.E.	11/1
Management Signature:	Date: 2/2/20
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JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5

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Advanced Disposal Emerald Park Landfill Audit Map Landfill Operations Audit Form Page 5 of 5

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Fences placed to account for high winds





Working face



Working face



Seep repair and horizontal gas extraction trench construction on West slope of Phase 7; West of access road



Active area, well covered from previous working faces



Seep repair and horizontal gas extraction trench construction on West slope of Phase 7; West of access road



Seep repair and horizontal gas extraction trench construction on West slope of Phase 7; West of access road

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Undated:	01/09/2014 - Cleared
Орспса.	opdated.	01/03/2014 - Olcarca

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





ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 03/23/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of March 1, 2020. The audit was performed at 2:45 PM on **March 5, 2020** by Anna Krajceck in the presence of Michael Hackney, General Manager.

The weather conditions were partly cloudy with sprinkled rain before the audit

Landfill Operations Audit:

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

The operation required the use of one compactor, two dozers, one excavator, and one haul truck

- A) Working Face and Location
 - Working face at South end of Phase 7 South
 - Daily cover consists of mixed site soils and foundry sands
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - No events since last audit
 - Basins frozen, but site thawing due to warm weather
- E) Odor Control
 - Minor gas odor on access roads
- F) Liquid Loads
 - Tipped in middle of Phase 7 South
 - Two tanker loads of 4,300 gallon tipped during audit
- G) Litter Control
 - Six litter pickers active today
 - Some litter on HWY 45 and about entrance
- H) Vehicle Impacts
 - Some tracking on HWY 45 at both facility entrances



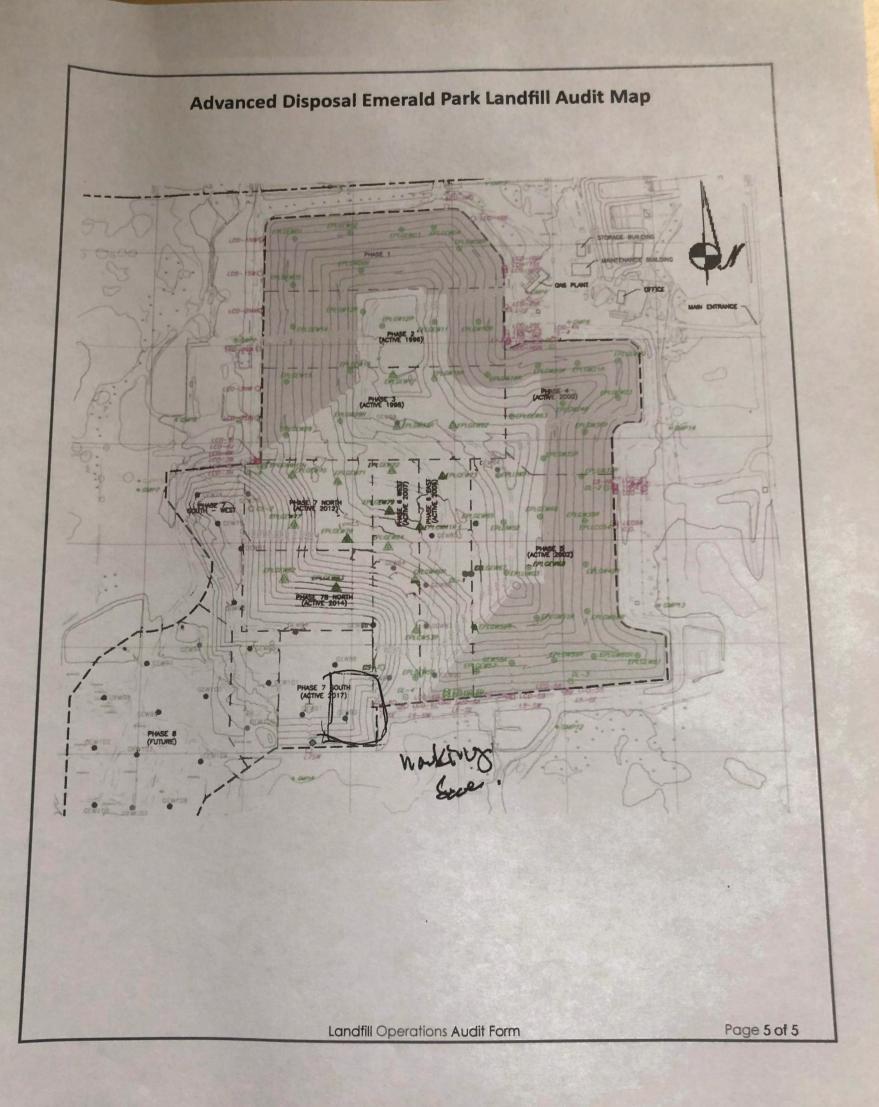
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 3,500 TPD of MSW, C&D, and Large soil project
 - Random Load Inspection last performed 2/28/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
- L) Other Comments
 - Backfilling of trenching for air lines and forcemain
 - Seep repairs on West slope of Phase 7

	AD	VANCED	DISPOS	AL SERVICES	EMERAL	D PARK LANDFILL		
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B. Leachate Management: Discharge to MMSD Phases:	Recirculation	
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EFFECTS: Note condition of perin water/waste contact locations: Still Mot y Odor Control: Odors Present: Comments:	neter road, erosion control structures, erosion damage and pose but www.	

G. Litter Control:		
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Litter Present Offsite:		
Pickers Active: Comments: 5 one	YES NO 1 # (0) How m Hwy 43, Bog in entronce road.	
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H. Vehicle Impacts: Location	ns of excessive mud/dust, condition of access and public roads and control	measures
taken, instances of trucks on	County roads.	
HWY 45 VI SM	e Tracking from trucks to both sites.	
Inspection of incoming V	Vaste:	
Scale Camera Operator:	YES NO #	
Equipment Operator:	YES NO #	
Spotter:	YES NO #	
Random Load Inspection Dates:		
Tonnage: 3500 +	Sor!	
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Rejected Loads: NO	Reason for Rejection	
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	Landfill Operations Audit Form	Page 3 of 5

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JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Spread cover in Phase 7 South





Phase 6 and 5



West slope of Phase 7 with completed horizontal wells and air supply



West of Phase 7



West of Phase 7

JSA Civil Environmental Engineers



Capped slope with minor litter

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 03/25/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of March 8, 2020. The audit was performed at 1:55 PM on **March 11, 2020** by Jo Spear, Jr. in the presence of Michael Hackney, General Manager.

The last audit was performed on March 5, 2020

The weather conditions were overcast with high clouds and humidity

Landfill Operations Audit:

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

The operation required the use of one compactor, one dozer, and excavator

- A) Working Face and Location
 - Working face at West side of Phase 7 South
 - Clean soils are being stockpiled in compost area for future cap construction
 - Landfill cover soils are being tipped at North end of Phase 7 North for future daily cover
 - Daily cover consists of mixed site soils and MRF seconds ADC
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - Small rain event and two small snow events since last audit
 - Site thawing making for muddy conditions
 - Basins thawed
- E) Odor Control
 - Minor gas odor on US 45
 - Onsite odor on access road to Phase 7
- F) Liquid Loads
 - Tipped in middle of Phase 7 South
- G) Litter Control
 - Four litter pickers active on Phase 4

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- Litter on site slopes and in onsite trees
- H) Vehicle Impacts
 - US 45 has tracking from both facility entrances
 - Site roads recently patched, especially entrance, with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with two equipment operators
 - Receiving 3,000 TPD of MSW, C&D, special and Large soil project
 - Random Load Inspection last performed 3/5/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Clean site, boxes half full
- L) Other Comments
 - Ste gas collection improvements completed on March 8, 2020
 - · Airline and force main improvements started today, with pipe welding
 - Site conditions in Phase 7 are tight, future small working faces are expected

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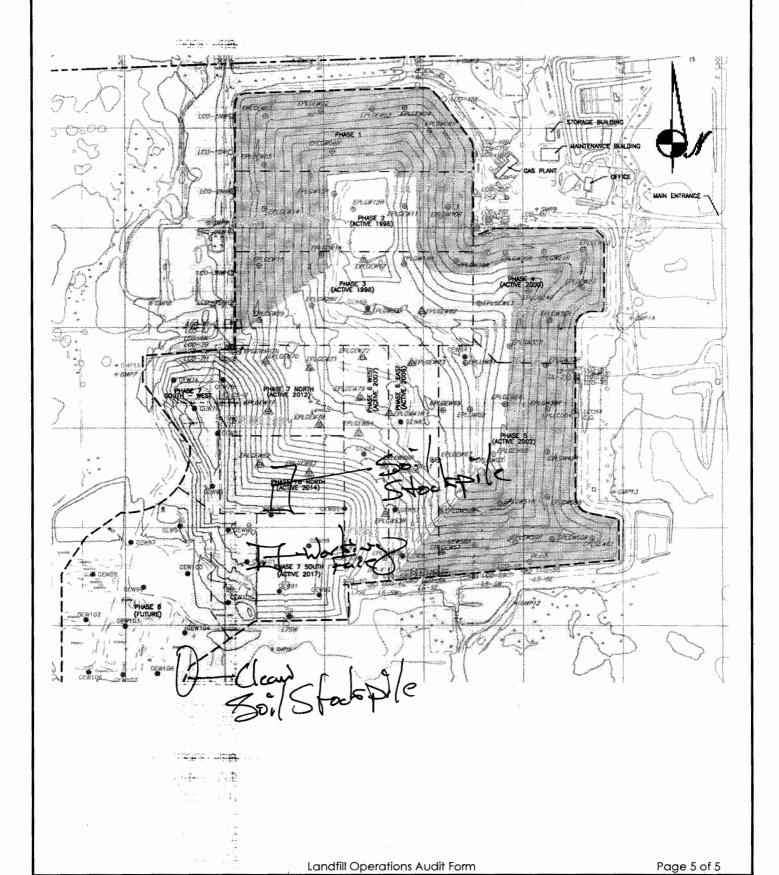
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	Cover Material:
В.	Leachate Management: Discharge to MMSD Recirculation Phases:
c.	Gas Monitoring and Management. Check appropriate box. Flares in Operation: YES NO # ! Blowers in Operation: YES NO # ! Flare use since last audit #
	Shutdowns Since Last Audit: # No Total Number of Wells # Under vacuum # Flow to MMSD: # 1, 200 cfm Comments:
	MMSD controlling flows
D.	Surface Water Management: Storm Events Since Last # 3 Est. Volume EFFECTS: Note condition of perimeter road, erosion control structures, erosion damagerand possible storm water/waste contact locations: Surface Water Management: Storm Events Since Last # 3 Est. Volume Est. Volume Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume Est. Volume And Surface Water Management: Storm Events Since Last # 3 Est. Volume Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last # 3 Est. Volume Storm Events Since Last
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F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G. Litter Control:	
Litter Present Onsite: YES 🔽 NO 🗌 🗸	
Litter Present Offsite: YES DO V	
Pickers Active: YES ☑ NO ☐ # 4	
Comments:	
Litter To onesite frees and slopes	
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H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control me	asures
taken, instances of trucks on County roads.	
US 45 has tracking at both contraves	
Site roads recently probed at antrance	
Inspection of incoming Waste:	
Scale Camera Operator: YES NO #	
Equipment Operator: YES V NO # 2	
Spotter: YES NO 1 #	
Random Load Inspection Dates: 3/5/2020 Form	
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Comments:	
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J. Rejected Loads:	
Date/Time Reason for Rejection	
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K. Residential Drop Off: Open During Audit	
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L. Other Comments:
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Auditor's Printed Name: Ja-Walter Spear, Jrr., P.E.
Management Signature: / /// / / / / Date: 3/11/20 Management Printed Name: / // Club Hackey
Management Title:
JSA Principal Signature: Date:
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Landfill Operations Audit Form Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



West edge of Phase 7 South viewed from the North





Working face on West side of Phase 7 South



ADC stockpiled East of working face on Phase 7 South



Temp sed basin thawed and surrounding slopes/soils



West of Phase 7



Eastern edge of Phase 7 South



West edge of Phase 7 South, new well and ADC stockpile

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 03/25/2020

PROJECT NUMBER: 1012.10030

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of March 15, 2020. The audit was performed at 10:10 AM on **March 19, 2020** by Jo Spear, Jr. in the presence of Michael Hackney, General Manager.

The last audit was performed on March 11, 2020; an audit on March 18th could not be conducted because management was unavailable.

The weather conditions were overcast with lifting fog. Mild winds out of the Southwest

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

- A) Working Face and Location
 - · Working face in middle of Phase 7 South
 - Working face surrounded by soils and MRF seconds for covwr
 - Second working face for bio-soil at North end of Phase 7 North
 - Daily cover consists of seconds ADC
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
 - Gas generation has been steady
- D) Surface Water Management
 - Snow cover bone and basins thawed
 - Basins draining
 - Erosion evident from winter months and thaw, but not severe
- E) Odor Control
 - No off site odors
 - Strong odors at trenching locations



- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - Five litter pickers active
 - Picker active on US45 during audit
 - Site litter in fences and ditches
- H) Vehicle Impacts
 - US45 and Union Church clean
 - Site roads recently patched, especially entrance, with crushed stone
 - On March 18, 2020 there was tracking from the WMWI entrance
- I) Inspection of Incoming Waste
 - Site operating with two equipment operators
 - Receiving 2,600 TPD of MSW, bio-soil, clean soil, and C&D
 - Random Load Inspection last performed 3/13/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present and nearly empty
 - Boxes empty and site clean
- L) Other Comments
 - Manager operating equipment due to only two available operators
 - Manager actively seeking equipment operator
 - Airline and force main improvements ongoing. Due to trenching odors are expected
 - Project should take approximately three weeks

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	MRFSeconds 140
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В.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES VNO #
ŀ	Blowers in Operation: YES V NO W # 1
	Flare use since last audit #
	Shutdowns Since Last Audit: #
	Total Number of Wells # 417 Under vacuum # 417
	Flow to MMSD: # 2,300 cfm 5plit hat
	Comments:
	MMSD CENTROlline flows
	Gas has peed steady
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D.	Surface Water Management: Storm Events Since Last # 1 Est. Volume -
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:
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	Comments: 1
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F.	Liquid Loads Received:
ļ .	Elquid Louds Received.
	- BRECIDASE JONE 1
	en distriction of the second o
	Landfill Operations Audit Form Page 2 of 5
	- Landin Operation Controll

C-	Litter Control:
J .	Litter Present Onsite: YES VNO U
	Litter Present Offsite: YES VNO
	Pickers Active: YES NO # 5
	Comments:
	Dickers active on US 45 during and 14
	Dite literain tensing and ditones
н.	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 & E Mile road Clear at 10:00 Am. Howous
،	to had track at WMWZ Entrance, site roughly po
I.	Inspection of incoming Waste: /
	Scale Camera Operator: YES VNO #
	Equipment Operator: YES V NO #
	Spotter: YES NO 7 / #
	Random Load Inspection Dates: 3/13/20 Form
	Tonnage: 2. (20)
	Comments:
	Bosot cowsoil Mow, and CED
	・ (4) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
	A AND AND AND AND AND AND AND AND AND AN
J.	Rejected Loads:
ľ	Date/Time Reason for Rejection
l	1. X /
	2.
	Z. VOPC
Κ.	Residential Drop Off: Open During Audit
Λ.	Residential brop Off. Topert boiling Addit Tesential Land Container Present
	Toxes emply 5 to clear, E waste Nearly emply
l	
1	
<u> </u>	Landfill Operations Audit Form Page 3 of 5
	Calculate The State Calculate The Calculate
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L. Other Comments:
x 4 1 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
* And Could Not be Dectorned ION 8/18/20
- Javanlable J
due to Do mana generate (dor montrate)
GN 3/18/20 found No detectable wats ance wars
Manager was active one to Diseatiles
ma marce was active one operation
equipment,
* Force Maid and corr live too to lation
Company ()
ondoing site olde Liebery
waste required boxs at activity
but not encountered off site
7 4 5 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
troject should take three weeks
w.
Auditer's Signature 0 19 Date: 3/19/20
Management Signature: Date: 3/19/20
Management Printed Name: Michael Fracking
Management Title: GM
JSA Principal Signature: Date:
Landfill Operations Audit Form Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map Landfill Operations Audit Form Page 5 of 5

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Raised well in Phase 7 North





Overview of Phase 7 South



Overview of Phase 7 South



Overview of Phase 7 South



Overview of Phase 7 South



Working face and approach in Phase 7 South



Sois tipping at North end of Phase 7



Installation of air line and force main by trenching and backfilling along West slope of Phase 7



Installation of air line and force main by trenching and backfilling

Opened:	Updated:	01/09/2014 - Cleared
Орспса.	opdated.	01/03/2014 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 03/25/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of March 22, 2020. The audit was performed at 12:03 PM on **March 24, 2020** by Jo Spear, Jr. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on March 19, 2020

The weather conditions were some clouds, sun, and changing winds

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

- A) Working Face and Location
 - Working face on top of Phase 7 Souths
 - No other working faces in operation
 - Daily cover consists of soils and ADC
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
 - Site odors hve become less severe, minor odors rather than strong
- D) Surface Water Management
 - No events since last audit
 - Basins and interior slopes not visible enough for evaluation
 - Exterior, capped slopes are in good condition with minimal erosion



- E) Odor Control
 - No offsite odors
 - Ongoing trenching increases the probability of odors
- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - One litter pickers active
 - Three pickers expected for tomorrow
 - Picker filled bags along US45 awaiting collection
 - Union Church road has litter left from snow melt
- H) Vehicle Impacts
 - US45 heavily tracked from WMWI entrance, contracted sweeper running broom dry, not adequate cleaning
 - Entrance rough and patched with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with two equipment operators
 - Receiving 2,300 TPD of MSW and high volume of soils
 - JSA will identify location of soil working face next audit
 - Random Load Inspection last performed 3/17/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes to be emptied today and/or tomorrow to prepare for next open date
- L) Other Comments
 - Gas vacuum still being increased on new wells
 - Contractor has 8,600 linear feet of air and force main lines to install
 - 1,000 linear feet installed so far
 - Contractor using an excavator and haul truck to trench and install hdpe pipelines

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 DATE <u>March 24, 2020</u> TIME 12:03 PM Close Auditor on site at: Open PREVIOUS DATE: March 19, 2020 Completed 10-15 with gusts WEATHER Some clouds, sun and changing winds WIND 44 °F Minimum TEMP Maximum 34 °F B.P. 30.13 MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented No. Contracted **DESCRIPTION** Rented Contracted Compactor 1 Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Maintenance No. Broken DESCRIPTION Broken Maintenance A. Working Face Size and Location: Working face appeared to be on top of Phase 7 South with soils being tipped in a separate working face further North in Phase 7 North. No other working faces in use 2410 N. PALMER STREET MILWAUKEE, WI 53212-3600

Landfill Operations Audit Form

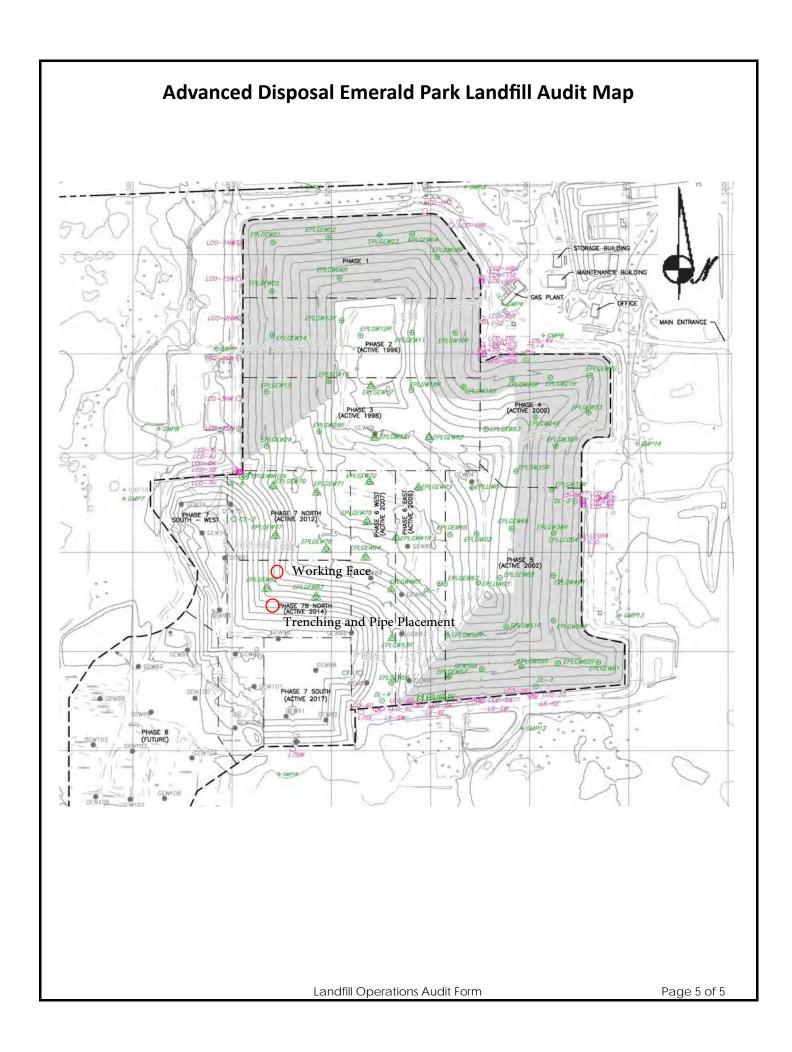
Page 1 of 5

	ther ADC cover			
 Leachate Management:				
Discharge to MMSD X	Recirculation			
Phases:				
Gas Monitoring and Managemers Flares in Operation: YES X		riate box.		
	=	1		
Blowers in Operation: YES X		1		
Flare use since last audit	# Flare has been in	constant use		
Shutdowns Since Last Audit:	# none			
Total Number of Wells # All	Under vacuum	# All		
Flow to MMSD:	# 1,200	cfm	1,100 cfm flared	
Comments:				
MMSD has been controlling flows	since the start of the v	ear not excee	eding outflow of 1 200 cfm	
Site improvements have not yet show	•		amg outlion of 1,200 cm	
However, site odors have become less	•		don commissints still swist	
However, site odors have become less	severe over the fast mo	onin; onsite (odor compiaints still exist	
Surface Water Management	Ctorm Fuents Cir	ann Lost	# a Fat Maluma	
Surface Water Management:	Storm Events Sir	l	# 0 Est. Volume	
EFFECTS: Note condition of perimeter	er road, erosion control	structures, er	osion damage and possible sto	orm
water/waste contact locations:				
Basins and interior slopes were not	visible for the audit, ex	terior "cappe	d" slopes were in good conditio	n with mini
erosion				
Odor Control:				
	Offsite			
Odors Present: Onsite				
Comments:				
Comments: No odors about the exterior of the s		ion would no	t distribute odors to local roads	S
Comments:		ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and		ion would no	t distribute odors to local roads	S .
Comments: No odors about the exterior of the s Due to site trenching gas release and		ion would no	t distribute odors to local roads	3
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:		ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	3
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	5
Comments: No odors about the exterior of the s Due to site trenching gas release and Liquid Loads Received:	d odors are expected	ion would no	t distribute odors to local roads	5

_	Littor Control		
G.	Litter Control:	YES X NO	
	Litter Present Onsite:	YES X NO	
	Litter Present Offsite:	<u> </u>	
	Pickers Active:	YES <u>X</u> NO _ # 1	
	Comments:		_
		morrow. Picker filled bags along US 45 during audit	_
	Union Church road has	litter left from snow melt	_
			_
Н.		ons of excessive mud/dust, condition of access and public roads and control measures	
	taken, instances of trucks or	n County roads.	
	Entrance rough and pate	hed with crushed stone,	
1		om WMWI entrance, contracted sweeper running dry and leaving road dusty and mucky	_
			_
1			
l.	Inspection of incoming	Waste:	
	Scale Camera Operator:	YES X NO # 1	
	Equipment Operator:	YES X NO # 2	
	Spotter:	YES NO X #	
	Random Load Inspection Date	ss: 3/17/2020 Form	
	Tonnage: 2,300 TPD		
	Comments:		_
	Receiving MSW and high	volume of soils	_
			_
J.	Rejected Loads:		_
	Date/Time	Reason for Rejection	
	1.	None	
	2.		
1			
K.	Residential Drop Off:	Open During Audit	
	-		_
	Boxes to emptied today of	r tomorrow in preparation for Friday's operation	_
			_
		Landfill Operations Audit Form Page 3 of 5	

as vacuum still being increased on new	v wells	
Contractor has 8,600 linear feet of air li	ne and force main to install.	
Contractor has installed 1,000 feet so fa	r	
Contractor using an excavator and haul	truck to trench and install hdpe pipelines	
·		

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		<u> </u>
		,
		/ /
Auditor's Signature:	(/ 15th/ A/	Date: 3/2s/2
Auditor's Printed Name:	\ Jo-Walter Spean Iz P.E.	7,/
Management Signature:	Michael Hackenson	Date: 3/25/
Management Printed Name:_	Michael Hacken	,
Management Title:	6M	
JSA Principal Signature:		Date:
_		



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Trenching on Phase 7 slopes for the installation of air and force main lines





Trenching on Phase 7 slopes for the installation of air and force main lines

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 04/03/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of March 29, 2020. The audit was performed at 12:03 PM on **March 30, 2020** by Jo Spear, Jr. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on March 24, 2020

The weather conditions were overcast and cloudy with mild winds out of the North

Landfill Operations Audit:

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

The operation required the use of one compactor and two dozers

- A) Working Face and Location
 - Working face on top of Phase 7 South at South end of cell
 - No other working faces in operation
 - Daily cover consists of soils and ADC sands
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,500 cfm
- D) Surface Water Management
 - No events since last audit
 - Basins and interior slopes not visible enough for evaluation
 - Exterior, capped slopes are in good condition with minimal erosion
- E) Odor Control
 - Minor gas odor on Union Church Road



- Manager indicated that there are odors on the access road, but intensity and area are smalller
- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - Advanced is limiting picker on the site to minimize risk
 - One picker
 - Litter appeared minimal and no offsite litter
- H) Vehicle Impacts
 - US45 heavily tracked from WMWI entrance, contracted sweeper running during audit
 - Entrance rough and patched with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with two equipment operators
 - Receiving 1,600 TPD of MSW and C&D
 - Commercial waste streams have dropped off due to closed businesses
 - Random Load Inspection last performed 3/26/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes being emptied during audit
 - Site clean
- L) Other Comments
 - Audit was conducted by offsite observation and a phone call with the General Manager
 - Gas vacuum still being increased on new wells
 - Contractor has 8,600 linear feet of air and force main lines to install
 - Approximately one half of the project completed
 - Contractor using an excavator and haul truck to trench and install hdpe pipelines
 - Manager had no other activities ongoing or expected in the near future

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 DATE March 30, 2020 Close TIME 1:46 PM Auditor on site at: Open X PREVIOUS DATE: March 24, 2020 Completed WEATHER Overcast and cloudy WIND TEMP Maximum 45 °F Minimum 31 °F B.P. 30.16 MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented No. Contracted Contracted **DESCRIPTION** Rented Compactor 1 Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Maintenance No. Broken DESCRIPTION Broken Maintenance A. Working Face Size and Location: Working face appeared to be on top of Phase 7 South at the South end of the cell. Discussion with manager indicated that working face was in the observed location and that no other working faces were active 2410 N. PALMER STREET MILWAUKEE, WI 53212-3600

Landfill Operations Audit Form

Page 1 of 5

ADC - sand and so	O1lS						
eachate Manageme	nt:						
Discharge to MMSD	X	Recirculation	n				
Phases:					_		
		unt. Chaalear		oto b ov			
Gas Monitoring and M				ate box.	7		
Flares in Operation:	YES X	NO L	#	1	-		
Blowers in Operation:		NO L	# .	1	-		
Flare use since last aud		# Flare has b	een in c	onstant use	<u>e</u>		
Shutdowns Since Last A		# none					
Total Number of Wells	# All	Under vacuu	um	# All			
Flow to MMSD:		# 1,200		cfm] 1,	100 cfm flared	
Comments:							
MMSD has been controlli	ng flows sin	ce the start of th	ie year, n	ot exceedi	ng outflow	of 1,200 cfm	
Consistent delivery to MN	1SD since la	st audit					
Site improvements have n	ot yet show	n an increase in	gas for c	lestruction	L		
However, site odors have	become less	severe over the	last mon	th; offsite	odor com	plaints still exist	
Surface Water Manager	nent:	Storm Eve	nts Sinc	ce Last	# 0	Est. Volume	
_						•	orm
EFFECTS: Note condition	of perimete					•	orm
_	of perimete					•	orm
EFFECTS: Note condition water/waste contact locat	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact locat	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope erosion	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope erosion	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior sloperosion Odor Control:	of perimete tions:	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
EFFECTS: Note condition water/waste contact local Basins and interior slope	of perimete	r road, erosion c	control st	ructures, e	rosion dam	nage and possible st	
Basins and interior sloperosion Odor Control: Odors Present: Comments:	of perimete	r road, erosion c	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior slope erosion Odor Control: Odors Present: Comments: Minor gas odor on Unio	of perimeterions: es were not Onsite n Church R	r road, erosion covisible for the au	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments:	of perimeterions: es were not Onsite n Church R	r road, erosion covisible for the au	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior slope erosion Odor Control: Odors Present: Comments: Minor gas odor on Union and intensity of the odor	of perimete tions: es were not Onsite n Church R r has dimini	r road, erosion covisible for the au	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odor Liquid Loads Received	Onsite Church R r has dimini	r road, erosion o	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odor Liquid Loads Received	Onsite Church R r has dimini	r road, erosion covisible for the au	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odor Liquid Loads Received	Onsite Church R r has dimini	r road, erosion o	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odor Liquid Loads Received	Onsite Church R r has dimini	r road, erosion o	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odors.	Onsite Church R r has dimini	r road, erosion o	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini
Basins and interior sloperosion Odor Control: Odors Present: Comments: Minor gas odor on Unionand intensity of the odors. Liquid Loads Received.	Onsite Church R r has dimini	r road, erosion o	adit, exte	ructures, e	rosion dam	nage and possible sto	on with mini

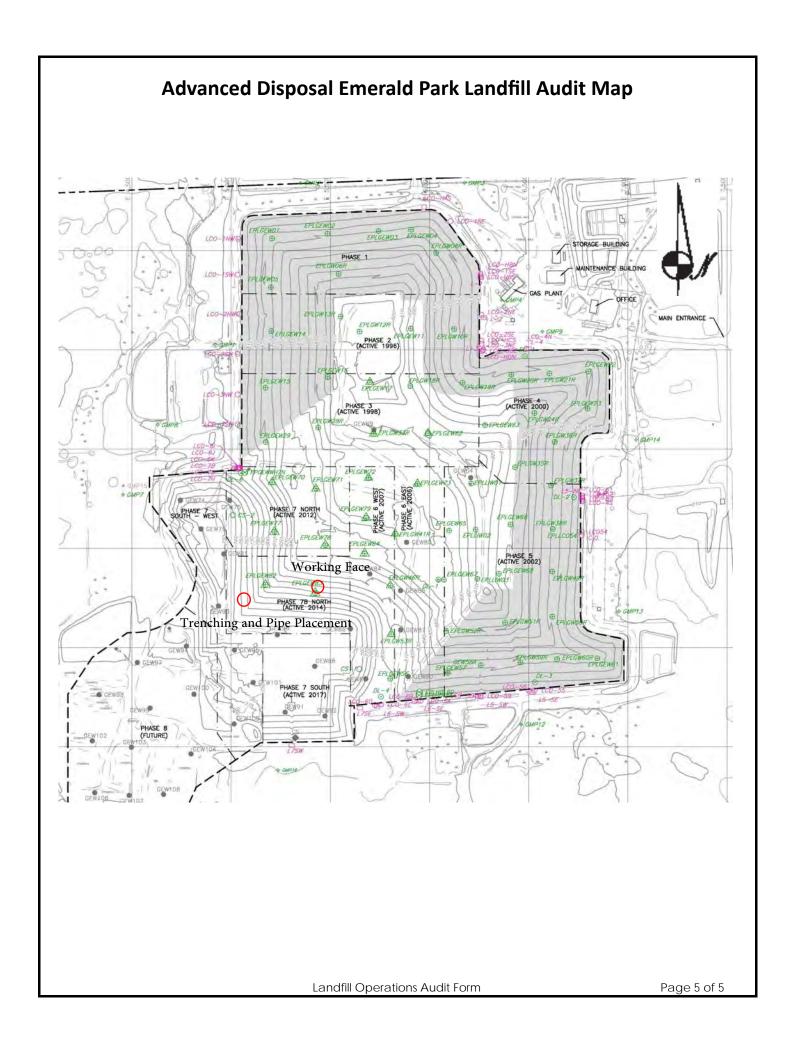
Litter Con		VEC	X	NO				٦
	ent Onsite:	YES	<u> </u>	NO NO	$\overline{\mathbf{y}}$			-
	ent Offsite:	YES	X					4
Pickers Ad		YES	Λ	NO		# 1		1
Commen								
			the s	site to	mini	mize risk.	Litter appear	red minimal and winds were mild
No offsit	e litter was notic	ced						
	npacts: Locati inces of trucks or				mud/	'dust, cond	ition of acce	ess and public roads and control measures
Entrance	e rough and pate	ched wit	th cr	ushed	ston	e,		
US 45 h	eavily tracked fro	om WM	1WI	entra	nce, o	contracted	sweeper runr	ning wet brooms and it improved cleaning
Sweeper	should have ma	de addi	ition	al pas	ses			
	n of incoming			1		T		7
	era Operator:	YES	X	NO	<u> </u>	#	1	1
Equipment	Operator:	YES	X	NO	$\underline{\sqcup}$	#	2	1
Spotter:		YES		NO	X	#		
Random Loa	ad Inspection Date	es:			3/26	5/2020		Form
Tonnage:	1,600 TPD							
Commen	ts:							
-	g MSW and C&I							
Commer	<u>cial waste stream</u>	ns have	droj	pped o	ff du	e to closed	businesses a	nd shelter-in-place
Daia - + - !	l o o do:							
Rejected							Doors f-	ar Dala atlan
1	Date/Time	+					keason to	or Rejection
1.		+		No	ne			
۷.	1	1						
David	tial Day Off		- 5		Λ.	II.		
Kesiden	tial Drop Off:	Upe	וט ח	uring	Auc	JIK	L-Waste	e Container Present X
Boxes be	eing emptied tod	ay and	site	clean				
				L	and	fill Operation	ns Audit Forr	m Page 3 of

Other Comments:		
* Audit was conducted by offsite	observation and a phone call with the General Manager	
* Gas vacuum still being increas	ed on new wells	
Contractor has completed app	et of air line and force main to install. proximately one half of the project r and haul truck to trench and install hdpe pipelines	
Manager had no other activities a	ctive or expected in the near future	
		animination
· · · · · · · · · · · · · · · · · · ·		<u> </u>

		· · · · · · · · · · · · · · · · · · ·
		-11
Auditor's Signo		Date: 3/30/72
 Auditor's Printed No Management Signo 		Date: Park SUX
Management Printed N		Litzalia
Management		9/30/0
JSA Principal Signo	Trure;	Date:
	en en en en en en en en en en en en en e	

Landfill Operations Audit Form

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ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face and trenching project viewed from Union Church Road from the South





Working face on top of Phase 7 South



Trenching for line installation on West and South slope of Phase 7



Working face in Phase 7 South viewed from Union Church Road

Opened:	Updated:	01/09/2014 - Cleared
Opened.	Opuatou.	3 1/03/20 17 - Olcarca

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





ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 04/13/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of April 5, 2020. The audit was performed at 12:03 PM on **April 8, 2020** by Jo Spear, Jr. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on March 30, 2020

The weather conditions were overcast with some sun along with on and off rain

Landfill Operations Audit:

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

The operation required the use of one compactor and one bulldozer

- A) Working Face and Location
 - Working face on top of Phase 7 South
 - No other working faces in operation
 - Daily cover consists of soils being tipped during the day
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD, but much increased
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,500 cfm; total gas volume increasing
- D) Surface Water Management
 - Two events since last audit, minimal rain fall
 - Basins and interior slopes not visible enough for evaluation
 - Exterior, capped slopes are in good condition with minimal erosion
 - Contractor regrading areas as trenching is completed



- E) Odor Control
 - Strong gas odor on Union Church Road and US45
 - Manager was not questioned about onsite odors
- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - Advanced is limiting picker on the site to minimize risk
 - One picker
 - Litter visible on exterior slopes, but minimal
- H) Vehicle Impacts
 - US45 and Union Church Road are clean, but the left turn lanes are heavily tracted
 - Site entrance rough and patched with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with two equipment operators
 - Receiving 2,000 TPD of MSW, ADC soils, and liquid loads
 - Commercial waste streams have dropped off due to closed businesses
 - Random Load Inspection last performed 4/3/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - · Boxes nearly empty with one overflowing
 - Site clean
 - Tire pile appears large
 - Site manager stated that the drop off has been extremely busy
- L) Other Comments
 - Odor complaints have been on the rise since last audit
 - Both North and South of the site
 - Gas vacuum still being increased on new wells
 - Contractor finishing trenching on South slopes.
 - The remainder of the project will be over the top of Phase 7, which will be completed next week
 - Manager had no other activities ongoing or expected in the near future

	ADVANC		AL SERVICES . OPERATION		.D PARK LANDFI FORM	LL	
PROJEC	CT NO. 1020.10030	1	CITY OF MUS	KEGO			
DA	ATE April	8, 2020			TIM	E 2:15 P	M
	Auditor on site at:	Open		Close			
PREVIO	US DATE: N	<u> 1arch 30, 20</u>)20	Comple	eted 🛚 🗵		- 1 (DII
WEATH	HER Some sun, ove	ercast and	clouds; wit	n on an	d off rain WINI	$\begin{array}{c c} 5 - 15 \\ \hline 0 & 9 \end{array}$	5 MPH 5 E Ø
TEI	MP Maximum6	5 °F	- Minimum	35	°F B.F	29.7	7
MAJOR	EQUIPMENT USED IN LA	NDFILL OP	ERATIONS				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Grader						
MA IOR F	EQUIPMENT BONEYARD						
No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
Woı	g Face Size and Location rking face on top of Pother working faces o	hase 7 Sou	ıth receivin	g all wa	stes including	liquid loa	ds
						5	Weeklery i
						ENVIRO	ONMENTAL
						MILWAUKEE, WI	STREET 53212-3600
		Lanc	Ifill Operations	Audit Forn	n		Page 1 of 5

Soils tipped toda				
	<u>ıy</u>			
Leachate Manager	nent:			
Discharge to MMSD	X	Recirculation		
Phases:				
Gas Monitoring and	Manageme	ent: Check approp	riate box	
Flares in Operation:	YES X		nate box.	
Blowers in Operation.	22			
Flare use since last a		<u> </u>		
		# Continuous		
Shutdowns Since La		# None	" 411	
Total Number of We	ells # All	Under vacuum	# All	
Flow to MMSD:		# 2,000	cfm	500 cfm to flare
Comments:				
MMSD in contr	ol of flow, I	out has increased 1	ate to 2,0	00 cfm
		eased by 100 to 20		
0 1		,		
Surface Water Manag	gement:	Storm Events Sir	nce Last	#2 Est. Volume ~1"
FFFECTS: Note condit	on of perimete	er road, erosion control	structures er	osion damage and possible storm
water/waste contact lo			stractares, cr	osion damago and possible storm
Site basins are r	ot readily v	isible, nor are inte	rior clope	c
	•			
<u>EXTERIOR SIODES</u>	1 1	nchanged, no addi		SIOH
_				1. 1 1
	urs being co	onducted, but con	tractor is	regrading trenched areas
	<u> </u>	onducted, but con	tractor is	regrading trenched areas
_	airs being co	onducted, but con	tractor is	regrading trenched areas
No erosion repa	airs being co	onducted, but con		regrading trenched areas
No erosion repa	Onsite	Onducted, but con	tractor is:	regrading trenched areas
No erosion repa				regrading trenched areas
No erosion reparation of the Property of the P	Onsite	Offsite	X	
No erosion reparation of the Property of the Present: Comments: Strong odors at in	Onsite on contents	Offsite of US45 and Unio	X n Church	Rd., odor along ~1/2 mile of Un
No erosion reparts Odor Control: Odors Present: Comments: Strong odors at in	Onsite on contents	Offsite of US45 and Unio	X n Church	Rd., odor along ~1/2 mile of Un
No erosion repair Odor Control: Odors Present: Comments: Strong odors at in Church. Auditor	Onsite Itersection of the neglected to	Offsite of US45 and Unio	X n Church	Rd., odor along ~1/2 mile of Un
No erosion repairs Odor Control: Odors Present: Comments: Strong odors at in Church. Auditor	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	X n Church	Rd., odor along ~1/2 mile of Un
No erosion reparation of the Present: Odors Present: Comments: Strong odors at in Church. Auditor	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	X n Church	Rd., odor along ~1/2 mile of Un
No erosion repairs Odor Control: Odors Present: Comments: Strong odors at in Church. Auditor	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	X n Church	Rd., odor along ~1/2 mile of Un
No erosion reparation of the Present: Odors Present: Comments: Strong odors at in Church. Auditor Liquid Loads Receiv	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	X n Church	Rd., odor along ~1/2 mile of Un
No erosion repairs Odor Control: Odors Present: Comments: Strong odors at in Church. Auditor	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	X n Church	Rd., odor along ~1/2 mile of Un
No erosion reparation of the Present: Odors Present: Comments: Strong odors at in Church. Auditor Liquid Loads Receiv	Onsite Intersection of the neglected to	Offsite of US45 and Unio o ask the manager	N n Church regarding	Rd., odor along ~1/2 mile of Ungon site odors

G.	Litter Control: Litter Present Onsite: YES X NO \(\)
	Litter Present Offsite: YES NO X
	Pickers Active: YES NO # 1
	Comments:
	Exterior slopes had visible litter from US45, but very minor
	Advanced is keeping their picker count low for health safety
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
	Union Church Rd. and US45 clean, but both left turn lanes are heavily tracted
1	Site entrance potholed and patched with crushed stone
1	
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES X NO # 1
	Equipment Operator: YES X NO # 2
	Spotter: YES NO X #
	Random Load Inspection Dates: April 3, 2020 Form
	Tonnage: 2,000 tpd
	Comments:
	Incoming waste consisted of MSW, ADC soils, and liquid loads
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1. None
	2.
IZ.	Desidential Draw Off. On an During Audit
K.	Residential Drop Off: Open During Audit
	Boxes nearly empty, one overflowing. Site clean with large tire piles
	Manager stated that the drop off has been extremely busy when open
i i	
1	
	Landfill Operations Audit Form Page 3 of 5
	14900010

ton of Dhase 7 to La secondar	ng on South slopes during audit. Remainir	ig project, over th
top of Phase 7 to be complet * No other projects planned a	t this time	
140 other projects planned a	t this time	
•		
·		
Auditor's Signature		Date: 0//09/20
Auditor's Signature:		Date: <u>04/08/20</u>
Auditor's Printed Name:	Jo-Walter Spear, Jr., P.E.	
Auditor's Printed Name: _ Management Signature: _		
Auditor's Printed Name:		Date: <u>04/08/20</u>
Auditor's Printed Name:		Date:
Auditor's Printed Name:		Date:
Auditor's Printed Name:		Date:
Auditor's Printed Name:		

Advanced Disposal Emerald Park Landfill Audit Map



Odors along Union Church

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from Union Church Road from the South. Trenching project on South slopes blocked by trees





Working face on top of Phase 7 South



Trenching complete on West slopes



Working face in Phase 7 South viewed from Union Church Road

Opened:	Undated:	01/09/2014 - Cleared
Opened.	Opdated.	0 1/03/20 14 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 04/22/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of April 12, 2020. The audit was performed at 1:40 PM on **April 16, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on April 8, 2020

The weather conditions were clear, sunny, and winds out of the West

Landfill Operations Audit:

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

The operation required the use of one compactor and one bulldozer

- A) Working Face and Location
 - Working face on top of Phase 7 South, at South end, top of slope
 - No other working faces in operation
 - Daily cover consists of soils being excavated by contractor
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD, but much increased
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,400 cfm; total gas volume increasing
- D) Surface Water Management
 - · One light rain/flurry event since last audit, no accumulation
 - Basins are draining
 - Site slope repairs ongoing where trenching occurred



- E) Odor Control
 - No off site odors, strong odors on South perimeter road
- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers, well spaced about the site
 - Litter is well spread about after three days of heavy winds
- H) Vehicle Impacts
 - US45 and Union Church Road are clean, but the left turn lanes are heavily tracked
 - Site roads rough and entrance patched with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,600 TPD of MSW and ADC soils
 - Random Load Inspection last performed 4/12/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes nearly empty or half full
 - Site clean
- L) Other Comments
 - Contractor on site operating two dozers, two haul trucks, and one excavator.
 - Repairing slopes and grading areas impacted by trenching
 - Force main and airline installation project completed
 - Site manager provided site vehicle to allow auditor to travel about site. Auditor stayed to perimeter roads only and did not enter the landfill operational foot print

			OPERATION		ORM			
PROJEC	CT NO. 1020.10030		0111 01 11100	KLOO				
DA	ATE April	16, 2020				TIME	1:40	
٥.	Auditor on site at:	Open		Close		******	1.40	
DDE\/I\(\)I	JS DATE: A	11.0.000		Comendo	t a al	<u> </u>		
KLVIO	A	pril 8, 2020)	Comple	tea u	∵ 71	10 -	20 MPF
WEATH	IER Clear, sunny, a	nd windy	•			WIND		E (
TEN	MP Maximum <u>4</u>	5 °	F_Minimum	32	°F	B.P	30.03	
MAJOR	EQUIPMENT USED IN LA	NDFILL OP	ERATIONS					
No.	DESCRIPTION DESCRIPTION	Rented	Contracted	No.	DESCRIP [*]	ΓΙΟΝ	Rented	Contracted
1	Compactor							
1	Dozer							
•	Excavator							
	Haul Truck							
	Water Truck							
	Grader							
1	Front End Load	10r						
MAJOR F	QUIPMENT BONEYARD		<u> </u>					<u> </u>
Vo.	DESCRIPTION	Broken	Maintenance	No.	DESCRIP [*]	ION	Broken	Maintenan
	BEGGIIII II GIV	2.0.0			22001		D. G.KGT	
Morkina	Laga Ciza and Lagatia	ъ.						
vorking	Face Size and Location	n:						
	1' (' 0 (7.0					
	rking face in South							
	ernative Daily Cove		Soils bein	g receiv	/ed and	stoc	kpiled to	<u> </u>
<u>futu</u>	<u>ıre cover placemer</u>	nt						
						V. 3		
					7/		ENVIRON	NMENTAI
					79	SA	ENVIRON 2410 N. PALMER ST	NMENTAI
					J	SA	ENVIROA 2410 N. PALMER ST MILWAUKEE, WI 532	NMENTAI

	Joning Oxtoa	vated and haule	d by con	tractor
eachate Manage	ement:			_
Discharge to MMS	D X	Recirculation		
Phases:				
Gas Monitoring ar		ent: Check approp	oriate box.	1
lares in Operation			1	
Blowers in Operati	on: YES 🗶	NO #	1	
lare use since last	audit	# None		
Shutdowns Since L	ast A u dit:	# None		
Total Number of W	/ells # All	Under vacuum	# All	
Flow to MMSD:		# 2,000	cfm	400 cfm to flare
Comments:				
MMSD inc	creasing the	e volume they re	eceive.	
	•	_		n as compared to March
values	<u>se volanno n</u>	ido intorodoca b	<u>, 100 0111</u>	rao comparca to march
values				
water/waste contact Snow flui	locations: rry/rain eve	nt; no accumula	ation of si	now or measurable rain fall
		and site slope r	epairs or	ngoing where trenching
occurred	<u>. </u>			
				1
	Onsite]
Odors Present:	Onsite			
Odors Present: Comments:		<u> </u>	on South	perimeter road
Odors Present: Comments: No off si	te odors, st	<u> </u>	on South	perimeter road
Odors Present: Comments: No off si	te odors, st	<u> </u>	on South	perimeter road
Odors Present: Comments: No off si	te odors, st	rong gas odors	on South	n perimeter road
Odors Present: Comments: No off si	te odors, st	rong gas odors	on South	n perimeter road
Odors Present: Comments: No off si	te odors, st	rong gas odors	on South	n perimeter road
Comments: No off si	te odors, st	rong gas odors	on South	perimeter road

	Litter Control
G.	Litter Control: Litter Present Onsite: YES X NO
	Comments:
	Litter is well spread about the site and into tree lines due to three days
	of strong winds. Pickers are being kept well separated across site
Н٠	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 and Union Church clean, except for the turn lanes on US 45 which
	are heavily tracked. Site roads are rough and entrance potholed
	are rieavily tracked. Site roads are rough and entrance potholed
I.	Inspection of incoming Waste:
	Scale Camera Operator: YES X NO # 1
	Equipment Operator: YES X NO # 3
	Spotter: YES NO X #
	Random Load Inspection Dates: April 12, 2020 Form
	Tonnage: 1,600 tpd
	Comments:
	Site receiving MSW,
	— One receiving two vv,
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1.
	2.
K.	Residential Drop Off: Open During Audit E-Waste Container Present
	Site clean and most boxes empty or half full
1	
1	
	Landfill Operations Audit Form Page 3 of 5

	Contractor on site operating two dozers, two haul trucks, and
	one excavator; repairing slopes and grading areas impacted by the placement of new air and forcemain lines.
	by the placement of new att and forcemain lines.
*	Forcemain and air line installation project completed
*	No planned projects expected before next audit
*	Site Manager provided site vehicle to allow auditor to travel about
-	site. Auditor stayed to perimeter roads only and did not enter the landfill operational footprint
	iandin operational footprint
- ,	
	
1	
	11/1/2011
	Auditor's Signature: Date: 4/16/
	Auditor's Printed Name. Jo Walter Spear Jr. Nanagement Signature: Date: 4/22/2
	gement Printed Name: / Us chall Hackney
ivia i a	Management Title: / FM
	JSA Principal Signature: Date:

Landfill Operations Audit Form

Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map PHASE 1 MAIN ENTRANCE Slope Repair **Working Face** Slope Repair Landfill Operations Audit Form Page 5 of 5

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from Union Church Road from the South.





Working face on top of Phase 7 South



Working face on top of Phase 7 South



Litter around basin, but still on site



Trenching complete on West slopes and slope patched



Previously placed waste, compacted and awaiting cover



Working face at top of slope



Stockpiled cover soils



Working face and cover soils at top of Phase 7 South slope



South slope of Phase 7 South, contractor repairing slope after trenching



Upper slope of Phase 5/6 South slope



East slope of Phase 5, picker active in image

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from Union Church Road from the South.





Working face on top of Phase 7 South



Working face on top of Phase 7 South



Litter around basin, but still on site



Trenching complete on West slopes and slope patched



Previously placed waste, compacted and awaiting cover



Working face at top of slope



Stockpiled cover soils



Working face and cover soils at top of Phase 7 South slope



South slope of Phase 7 South, contractor repairing slope after trenching



Upper slope of Phase 5/6 South slope



East slope of Phase 5, picker active in image



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 05/19/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of April 19, 2020. The audit was performed at 1:45 PM on **April 22, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on April 16, 2020

The weather conditions were clear, sunny, and winds out of the West

Landfill Operations Audit:

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

The operation required the use of one compactor and two bulldozers

- A) Working Face and Location
 - Working face on top of Phase 7 South, at Southeast corner, top of slope
 - No other working faces in operation
 - Daily cover consists of soils previously stockpile from Phase 8 excavation
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering partial flow to MMSD, but much increased
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - Erosion and installation repairs finalized
 - Basins have freeboard and are surrounded by water trapped litter
- E) Odor Control



- No off site odors, mild gas odor on Phase 7 access road
- F) Liquid Loads
 - Tipped in Phase 7 South
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers, well spaced about the site
 - Litter is well spread about after three days of heavy winds
 - litter in on site trees
- H) Vehicle Impacts
 - US45 and Union Church Road are clean, but the entrance to WMWI is muddy
 - Site roads rough and entrance patched with crushed stone
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,600 TPD of MSW, C&D, and special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes nearly empty, truck emptying boxes during audit
 - Site clean
- L) Other Comments
 - Site internet down and has been sporadic
 - Repairing slopes and grading areas impacted by trenching
 - Three possible seeps on West slope of Phase 7, manager agrees and will address seeps

			//WI - METRO L OPERATION CITY OF FRA	IS AUDIT			
PROJEC	T NO. 1036.10056		CIT OF TRA	INICHIN			
DAT	E <u>May 13</u> Auditor on site at:	, <u>2020</u> Open		Close	TIM	1E <u>2:0</u>	05 PM
	JS DATE: <u>Ap</u> i		0		10 -		gusting winds ③ E Ø
TEM		61 °	F_Minimum			P	30.29
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Trailer Tipper						
2	Compactor						
1	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
MAJOR E							
No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
Wo place place	Face Size and Location Face Size and Location Face near South Cing waste on fluff lay ced again next week other working faces	n end of P				ste will be	
						ENVIRO	ONMENTAL R STREET
						MILWAUKEE, W	I 53212-3806

Page 1 of 6

	Soils stockpiled from remediation of neighboring salvage yard
	eachate Management: Discharge to MMSD X
<u> </u>	Gas Monitoring and Management: Check appropriate box.
FI	lares in Operation: YES X NO # 1
Τι	urbines in Operation: YES $oxed{X}$ NO $oxed{\square}$ # 1
	ngines in Operation: YES $\overline{\mathbb{X}}$ NO $\overline{\square}$ # $\overline{3}$
	hutdowns Since Last Audit: # None
D	Destructed Volume: # 2,330 cfm
	urface Water Management: Storm Events Since Last Audit: # 3 Est. Volume <2" FFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm
	vater/waste contact locations: Basins draining and erosion repairs ongoing
C	Odor Control: Odors Present: Onsite Offsite Notes on odor monitoring page Comments:
	Waste odors on Oakwood Road, no other odors detected
_ Li	iquid Loads Recieved:

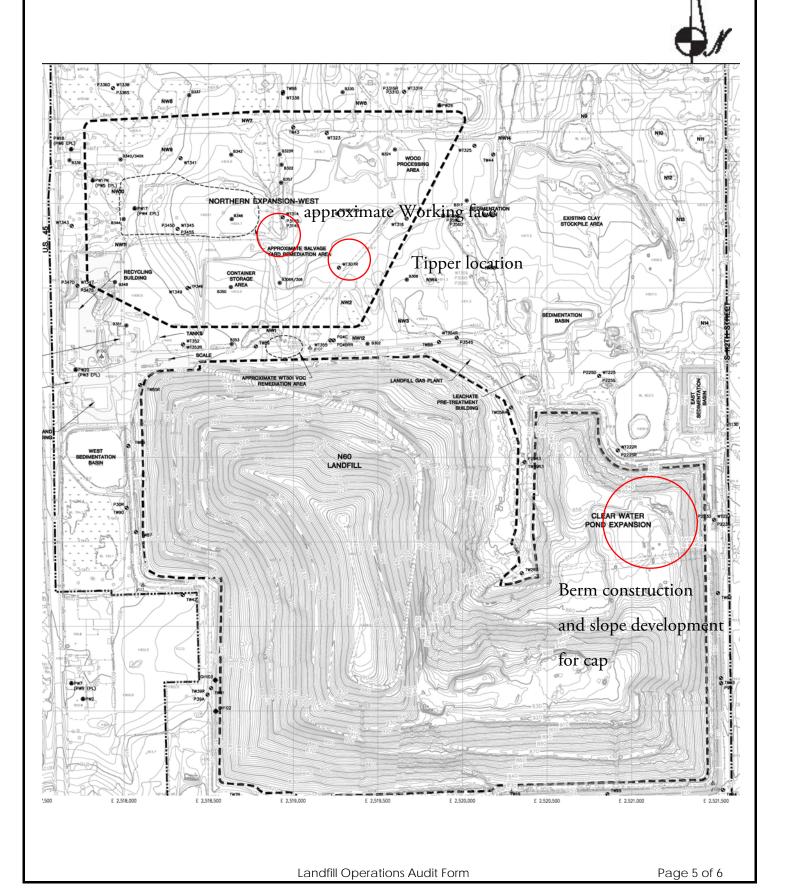
G	Litter Control:					
O .		YES X	МО	1		
	Litter Present Onsite:					
	Litter Present Offsite:	YES	NO X			
	Pickers Active:	YES X	NO	# 3		
	Comments:					
	Litter about worki	ng face, p	redomin	antly in hig	h fencir	19
H.	Vehicle Impacts: Local taken, instances of trucks of			I/dust, conditio	n of acce	ss and public roads and control measures
	US 45 and 8 Mile	Road are	e clean.	Site roads p	aved to	entrance of North Expansion West
	project was compl	leted on 1	May 7, 2	020		
			•			
l.	Inspection of incoming	y Waste:				
	Scale Camera Operator:	YES X	NO \square	#	1	
	Equipment Operator:	YES X	NO \square	#	3	
	Spotter:	YES	NO X	#		
	Random Load Inspection Date	es:	5/9/2	2020		
	Average Tonnage:		1	0 TPD		
	Comments:					
	Site is receiving N	ASW, C8	&D, and	special wast	es	
	<u>0</u>		,	1		
J.	Rejected Loads:					
	Date/Time	r Rejection				
	1.	N	one			
	2.		<u> </u>			
K.	Residential Drop Off:	Open Di	uring Auc	dit 🛛		
	1					
	Site very busy, bo	xes to be	emptied	on May 14.	2020	Brush pile being trucked to Orchard
	Ridge landfill		<u>F</u>			F 5
	14450 1411411111		Landf	fill Operations A	udit Form	Page 3 of 6

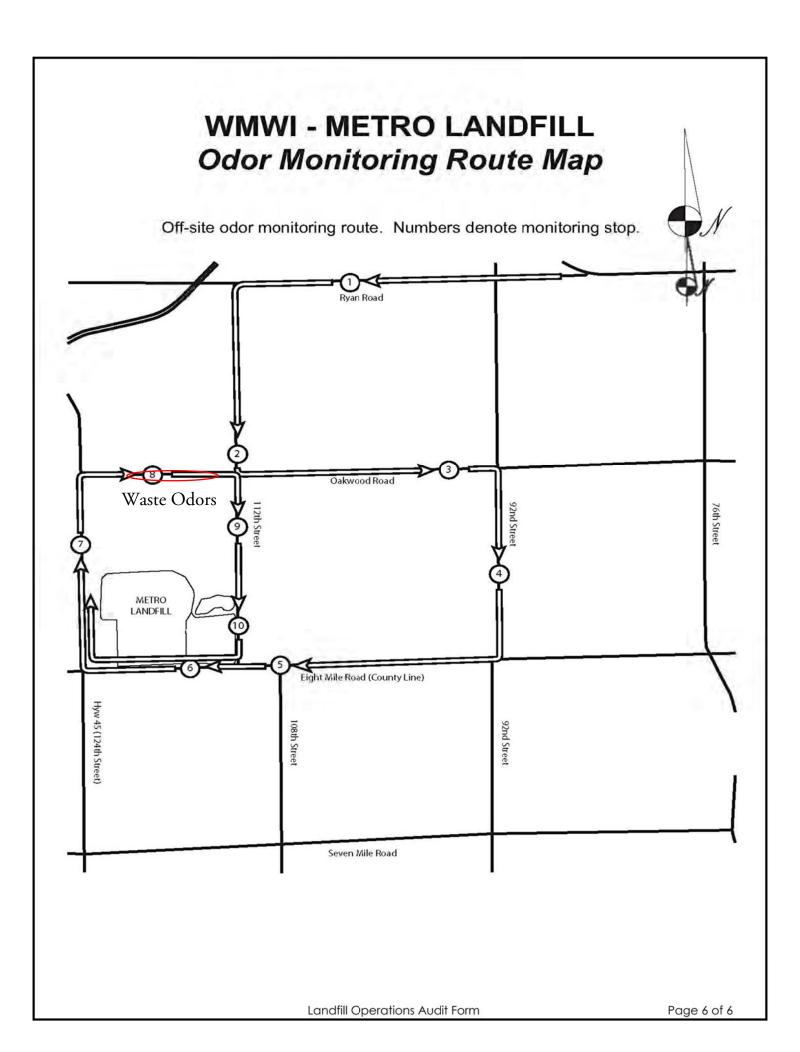
* Paving project was started and completed last week on May 7, 20 entrance and US 45 much cleaner	
* Contractor operating 3 bulldozers, 3 excavators, 8 haul trucks, at	
* Berm construction along West and South of North Expansion elevations	West for future waste
* Ongoing excavation of North Expansion West Phase 2B	
* Ongoing cap construction on Clearwater Pond Expansion	
	and the second s
Auditor's Signature:	Date: <u>05/14/2</u> (
Auditor's Printed Name: Yo-Walter Spear, Jr., P.E. Management Signature: /	 Date:
Management Printed Name: Management Title:	
JSA Principal Signature	 Date:

Landfill Operations Audit Form

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WMWI – METRO LANDFILL SITE MAP





WMWI - Metro Landfill, AUDIT PHOTOS

PROJECT NO. 1036.10056

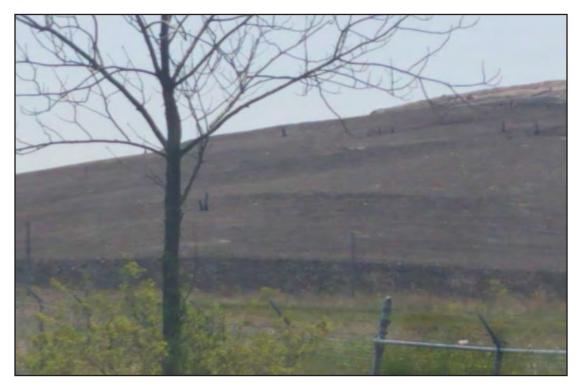


Cap development for Clearwater Pond Expansion





Cap development for Clearwater Pond Expansion



Cap development for Clearwater Pond Expansion



Cap development for Clearwater Pond Expansion



Cap development for Clearwater Pond Expansion



New energy diverter installed in Clearwater Pond Expansion Cap



South section of perimeter fence in need of repair



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Tipper managing trailer loads



North Expansion West, (NEW), North of tipper covered with daily cover



Waste being spread into Phase 2



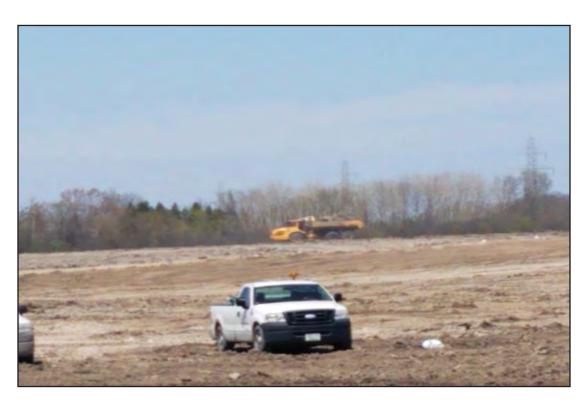
Tipped waste being pushed down into Phase 2



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



North end of North Expansion West (NEW), no activities



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Tipper at South end of North Expansion West (NEW) over junction of Phase 1 & 2



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B

JSA CIVIL - ENVIRONMENTAL ENGINEERS



Berm construction with excavated soils friom North Expansion West (NEW), Phase 2B

WMWI - METRO LANDFILL

Action Items Checklist City of Franklin Audit

Opened: 12/02/2015 Updated:

Item Number	DATE	Condition Description	Permit or Contract Reference	Reported to	Initial Schedule for Completion	Actual Completion Date	Elapsed Time (Days)	Notes
1	12/02/2015	Offsite litter on ground and in trees West of 112th Street.	Host Agree- ment & NR 500	Travis Thorson	ASAP	12/24/2015	22	Offsite litter present over two audits
1	03/30/2016	Offsite litte on ground and in trees along 112th Street	Host Agree- ment & NR 500	Dan Otzelburger	ASAP	06/18/2016	80	Offsite litter present over two audits
1	01/31/2017	Offsite litte on ground and in trees along 112th Street	Host Agree- ment & NR 500	Travis Thourson	ASAP	06/14/2017	135	Offsite litter present over two audits
2	11/28/2017	Offsite litte on ground and in trees along 112th Street	Host Agree- ment & NR 500	Dan Otzelburger	ASAP	12/18/2017	24	Offsite litter present over two audits



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 04/22/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of April 26, 2020. The audit was performed at 1:19 PM on April 29, 2020 by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on April 22, 2020

The weather conditions were overcast, high clouds, and ongoing rain. Strong winds gusting out of North to Northwest

Landfill Operations Audit:

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

The operation required the use of one compactor and one bulldozer

- A) Working Face and Location
 - Working face on top of Phase 7 South, at South end, top of slope against West edge of Phase
 - No other working faces in operation
 - Daily cover consists of soils and ADC soils previously stockpiled
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering majority of flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - Two days of heavy rains have nearly filled basins
 - Temp sed basin well drained by pumping







- Site slope repairs completed
- E) Odor Control
 - Strong onsite odors and offsite
- F) Liquid Loads
 - Tipped in Phase 7 South
 - Volumes reduced by 2/3rds due to process improvements
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers, well spaced about the site
 - Wet conditions reducing spread of litter, litter greatly reduced since previous audit
- H) Vehicle Impacts
 - US45 and Union Church Road are clean, but the left turn lanes and WMWI Metro are muddy
 - Site roads rough and entrance patched with crushed stone; very rough
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,600 TPD of MSW, C&D, and special wastes
 - Random Load Inspection last performed 4/23/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes all empty
 - Site clean with manageable tire pile
- L) Other Comments
 - Odor complaints on the rise, site still draining wells and increasing vacuum
 - · strong winds considered to be a factor
 - no other activities on site

DA	TE <u>Apr</u> Auditor on site at:	<u>il 29, 2020</u> Open)	Close	TIME	1:1:	9 PM
		pril 22, 20	20	_Comple	10-2		Flux of N t
	AP Maximum		PF Minimum	41		•	29.47
	EQUIPMENT USED IN L		PERATIONS				,
0.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
_2	Dozer		<u> </u>		<u>:</u>	<u> </u>	
	Excavator			<u> </u>		ļ	
	Haul Truck			-			
	Water Truck		-				
	Grader			-			
AJOR EC	QUIPMENT BONEYARD				L <u>.</u>	1	
0.	DESCRIPTION	Broken	Maintenance	e No.	DESCRIPTION	Broken	Maintenanc
	5 6 41						
	Face Size and Locat		CD1 =	C 1			
Wor	king face in Southe	ast corner	of Phase 7	South a	djacent to Pha	ise 6, wi	th some
expos	sure to the outside	slope of P	hase 7 Sout	-h			
CAPO	safe to the outside	stope of f	nase / cour	.11.			
No o	ther working faces						
				- 11			

Landfill Operations Audit Form

Page 1 of 5

Cove	r Material:
AD	C Soils and site soils previously stockpile
	nate Management: arge to MMSD X Recirculation
Phase	
rnase	
Gas N	Monitoring and Management: Check appropriate box.
	in Operation: YES X NO # 1
Blowe	ers in Operation: YES 🛛 NO 🗌 # 1
Flare	use since last audit # Continuous
Shutd	lowns Since Last Audit: # 1
	Number of Wells # A11 Under vacuum # A11
	to MMSD: # 2,300 cfm
Comm	
_M	MSD taking nearly all gas, flare barely lit
CL.	utdown on 4/26/2020, shutdown lasted 4 hours
	utdown on 4/20/2020, shutdown fasted 4 nours
Surfac	te Water Management: Storm Events Since Last # 2 Est. Volume 23"
water/	CTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm waste contact locations:
Tv	vo days of heavy rain have nearly filled basins, but not yet at top of control structure.
Cc	ontrol structures are closed. Temp sed. basin is well pumped down.
Slo	opes in good shape and repairs completed
<u> </u>	
	Control:
	s Present: Onsite X Offsite X
	ments:
	dors, strong gas, on site and on Union Church downwind of Active are
	dors on 8 Mile Road as well after wind gusts
Liavio	Loads Received:
C	lient has new press system, liquid load frequency has diminished by 2/3rds
	The state of the s
	Landfill Operations Audit Form Page 2 of 5

G. Litter Control:	
Litter Present Onsite: YES X NO .	
Litter Present Offsite: YES NO X	
Pickers Active: YES X NO # 3	
Comments:	
Wet conditions preventing wind blown litter in high winds	-
Pickers active on South side of site during audit, litter reduced since previous audit	
H. Vehicle Impacts: Locotions of excessive mud/dust, condition of access and public roads and control measure taken, instances of trucks on County roads.	∋s
US 45 and Union Church clean except for left turn lanes and WMWI Metro entrance	<u>e</u>
which were muddy	
Inspection of incoming Waste:	
Scale Camera Operator: YES X NO # 1	
Equipment Operator: YES 🛛 NO 🗌 # 3	
Spotter: YES NO X #	
Random Load Inspection Dates: 04/23/2020 Form	
Tonnage: 1,600 TPD	
Comments:	
MSW, C&D, and Special wastes being tipped	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection 1. None 2.	
Date/Time Reason for Rejection None Residential Drop Off: Open During Audit E-Waste Container Present Residential Drop Off:	
Date/Time Reason for Rejection 1. None 2.	
Date/Time Reason for Rejection	
1. None 2. K. Residential Drop Off: Open During Audit	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection	
Date/Time Reason for Rejection	

<u> </u>	nce previous audit. Site is still pumping do	wn wells and
increasing vacuum to wells.	The high wet winds are an additional imp	act.
* NT		1 1
•	tivities this week besides waste placement, l	eachate, and
LFG managment		
· · · · · · · · · · · · · · · · · · ·	· ····································	
		<u> </u>
		<u>, , , , , , , , , , , , , , , , , , , </u>
		
		· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·
		-
Auditor's Signature:		Date: <u>04/30/2</u>
Auditor's Printed Name:	Vo-Walter Speat, Jr., P.E.	ـ اسا،
Auditor's Printed Name: Management Signature: Management Printed Name:	Wo-Walter Speat, Jr., P.E.	Date: 04/30/2
Auditor's Printed Name: Management Signature: Management Printed Name: Management Title:	Walter Speat, Jr., P.E. William Minn	Date: 4 30 2
Auditor's Printed Name: Management Signature: Management Printed Name:	Walter Speat, Jr., P.E. William Minn	ـ اسا،
Auditor's Printed Name: Management Signature: Management Printed Name: Management Title:	Walter Speat, Jr., P.E. William Minn	Date: 4 30 2

Advanced Disposal Emerald Park Landfill Audit Map Working Face Location Page 5 of 5 Landfill Operations Audit Form

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Control structure of Basin 3, litter greatly reduced. Tree growing from control structure





Basin 2



Control Structure of Basin 2



West slopes restored after trenching



West slopes restored after trenching



West slopes restored after trenching



No evidence of seeps on West slope



Phase 7 viewed from the West



Phase 7 viewed from the West



Phase 7 viewed from the West



Temp. Sed Pond well pumped



Dozer placing waste for compaction on outboard slope



Working face at top of South slope at junction of Phase 6 & 7 South

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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





ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 05/12/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of May 3, 2020. The audit was performed at 11:46 AM on **May 8, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on April 29, 2020

The weather conditions were clear, sunny, and dry; it was a lovely and odor free day

Landfill Operations Audit:

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

The operation required the use of one compactor. one bulldozer, one excavator, and one haul truck

- A) Working Face and Location
 - Working face on West outboard slope of Phase 7 South, at the top of slope
 - Liquid loads were tipped in a trench nearer to Phase 6
 - Daily cover consists of site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering majority of flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 cfm
- D) Surface Water Management
 - Site drying out since last audit, basins recovering free-board
 - Temp sed basin well drained by pumping
- E) Odor Control
 - No odors on or off site



- F) Liquid Loads
 - Tipped in Phase 7 South, away from Outboard slope
 - Volumes reduced by 2/3rds due to process improvements
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Two pickers, well spaced about the site
 - Litter mostly on South slopes and basins cleared of litter since last audit
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and entrance very dusty
 - Entrance very potholed and patched with stone
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators + site manager
 - Receiving 1,700 TPD of MSW, C&D, special wastes, and small volume soils
 - Random Load Inspection last performed 5/05/2020
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes almost all full
 - Citizens speeding in and out of facility
- L) Other Comments
 - Repairs to pipes at toe of Phase 7 South slope. Excavation will be back filled after repairs are completed
 - Site staff excavating future Phase 8 and using material for cover
 - Site is abandoning four gas extraction points, manager will update the Committee on the total number of extraction points (wells, vaults, etc)

CITY OF MUSKEGO PROJECT NO. 1020.10030 DATE			ADVANCE	LANDFILL	AL SERVICES OPERATION	S AUDIT		ANDFIL	.L	
Auditor on site at: Open		PROJECT I	NO. 1020.10030	,	CITY OF MUS	KEGO				
WEATHER Clear, sunny, dry WIND N S E W TEMP Maximum 42 °F Minimum 26 °F B.P. 30.08 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 Grader Grader Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		DATE	Auditor on site at:	, <u>2020</u> Open		Close		TIME	11:4	66 AM
TEMP Maximum 42 "F Minimum 26 "F B.P. 30.08 MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted 1 Compactor 1 Dozer 1 Excavator 1 Haul Truck Mater Truck Grader Major EQUIPMENT BONEYARD MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		PREVIOUS	DATE: Apri	1 29, 202	20	Comple	eted	X	XX// X XXX	W 10 05 1
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 Grader No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		WEATHER	Clear, sunny, dry	r				WIND		
No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted 1 Compactor 1 Dozer 1 Excavator 1 Haul Truck Water Truck Grader No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		TEMP	Maximum 42	<u>2</u> °F	Minimum	26	°F_	B.P		30.08
1 Compactor 1 Dozer 1 Excavator 1 Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		Major ec	QUIPMENT USED IN LAN	DFILL OPI	ERATIONS					
1		No.	DESCRIPTION	Rented	Contracted	No.	DESCRIP	NOIT	Rented	Contracted
Excavator Haul Truck Water Truck Grader Grader Gr		1	Compactor							
MAJOR EQUIPMENT BONEYARD MO. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		11	Dozer							
Water Truck Grader MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		1	Excavator							
MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.		1	Haul Truck							
MAJOR EQUIPMENT BONEYARD NO. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.			Water Truck							
Mo. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.			Grader							
Mo. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Working Face Size and Location: Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.	Į	MA IOD FOI	IIDMENT BONEVADO							
Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.				Broken	Maintenance	No.	DESCRIP	TION	Broken	Maintenance
Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.										
Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.										
Working face on West outboard slope of Phase 7 South, at top of slope. Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.	l									
Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.	٦. <u>-</u>	Working Fa	ace Size and Location	·						
Liquid loads are tipped in a trench near the boarder of Phase 6 & 7 No other working faces in operation.	-	Workir	ng face on West out	hoard sle	one of Phas	se 7 Sou	ıth at to	n of sl	lone	
No other working faces in operation.	-				•		-	-	юрс.	
	-	Liquid	loads are tipped in a	ı trench	near the bo	arder o	f Phase 6	8.7		
	_	N.T .1	1	,•						
ENVIRONMENTAL S410 N. PALMER STREET MILWAUKEE, WI 53219-3806	_	No otn	er working faces in	operatio	n.					
ENVIRONMENTAL 2410 N. PALMER STREET MILWAUKER, WI 53219-3606	_									
ENVIRONMENTAL 9410 N. PALMER STREET MILWAUKER, WI 53219-3808	-									
ENVIRONMENTAL 2410 N. PALMER STREET MILWAUKEE, WI 53212-3600	-									
ENVIRONMENTAL 2410 N. PALMER STREET MILWAUKER, WI 53219-3806	-						_	~		
2410 N. PALMER STREET MILWAUKEE, WI 55212-3600	-								ENVIRO	NMENTAL
	-						-UL	1	2410 N. PALMER MILWAUKEE, WI	STREET \$3212-3600
Landfill Operations Audit Form Page 1 of 5	-			Land	fill Operations	Audit Form	1	/		Page 1 of 5

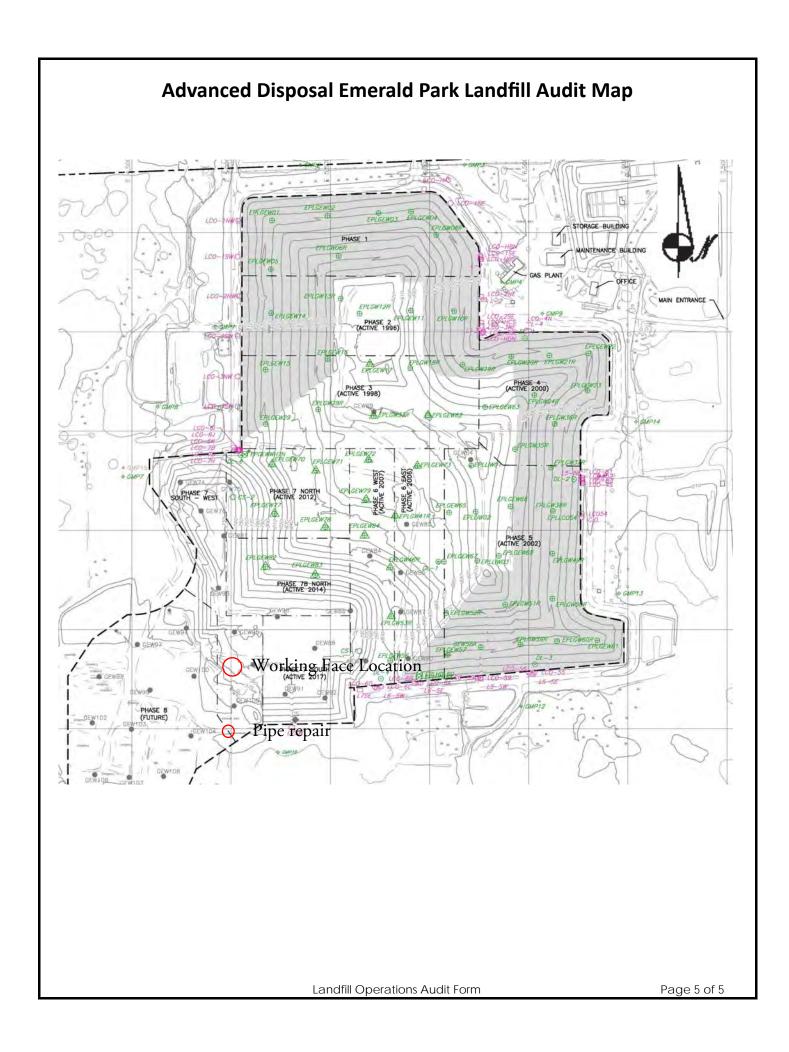
Site soils in use for outboa	ard slope co	over					
Leachate Managemen	t:						
Discharge to MMSD	X	Recirculation					
Phases:							
Gas Monitoring and Ma		nt: Check app	oropriat	e box.	٦		
Flares in Operation:			#	11			
Blowers in Operation:	yes X	NO 🗌 🗀	#	1			
Flare use since last audit	t	# Continuo	us				
Shutdowns Since Last Au	udit:	# None					
Total Number of Wells	# All	Under vacuur	n	# All			
Flow to MMSD:		# 2,300		cfm			
Comments:					_		
MMSD controlling Site manager is chec							
Surface Water Manageme	ent:	Storm Even	ts Since	Last	# 0	Est. Volume	0"
EFFECTS: Note condition of water/waste contact location Site drying out since	ons:					age and possible st	corm
Temp sed basin wel				ceboar	u.		
Odor Control: Odors Present: Comments:	Onsite	Offsit	е				
There were no odo	rs on site	or off, nor co	omplai	nts ma	de on 05	5/08	
Liquid Loads Received: Client has new pres liquid loads being 1							board slop
		Landfill Ope	rations A	udit Forn	~		Page 2 of

	Litter Control
G.	Litter Control: Litter Present Onsite: YES X NO \(\)
	Comments:
	Liter greatly reduced since previous audits, litter mostly on South slopes. Basins well
	mistrod singa last andit. Distrom active at approximate and of the facility
	picked since last audit. Pickers active at opposite ends of the facility
H.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
	Union Church Road clean, US45 and site roads very dusty and entrance to site potholed
	1 1 1 • 1
	and patched with stone.
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES X NO # 1
	Equipment Operator: YES X NO # 3
	Spotter: YES NO X #
	Random Load Inspection Dates: 05/05/2020 Form
	Tonnage: 1,700 TPD
	Comments:
	MSW, C&D, small volume soils, and Special wastes being tipped
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1. None
	2.
Κ.	Residential Drop Off: Open During Audit 🛛 E-Waste Container Present 🗓
	Boxes mostly full, very busy and citizens driving too fast.
	Doxes mostly ran, very busy and creizens driving too last.
	Landfill Operations Audit Form Page 3 of 5
	Editaliii Operations Addit Form

* Repairs to pipes at toe of Phase 7 South slope. Excavation will be fi	lled when repair
complete.	
* Site staff excavating future Phase 8 and using soil for cover on the w	orking face
* Site has approval to remove four gas extraction points, there have be	
placed to compensate. One abandoned well is a gas extraction horizor	ntal well installed in
November. All wells are being abandoned due to moisture content.	
$\langle M \rangle \langle M \rangle$	
Auditor's Signature: Auditor's Printed Name: Auditor's Printed Name:	Date: <u>04/30/</u>
Management Signature: Management Printed Name:	Date: 5/8/
Management Title: / GM JSA Principal Signature	Date:

Landfill Operations Audit Form

Page 4 of 6



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Site viewed from Union Church Road





Site viewed from Union Church Road



Basin cleared of litter



West slopes restored after trenching



West slope of Phase 7 South, small seeps have appeared, self cured, and then reappeared



South slope of working face with cover stockpiled



Active working face



Phase 7 viewed from the West



South edge of footprint viewed from West



Phase 7 South, Southwest corner



Phase 7 South, West slope, small seeps evident



Phase 7 North, West slope



Phase 7 North & Sourh, West slopes overview



West edge of landfill footprint viewed from the South



Temp. Sed Pond well pumped



Continued excavation of future Phase 8, material being used for cover on slope



Working face at top of West slope of Phase 7 South



South toe of Phase 7 slope, pipe repair to left of dozer



Dozer grading soils excavated for pipe repairs



South slope, litter trapped in grasses on capped areas

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Орспса.	opdated.	01/03/2014 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 05/19/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of May 10, 2020. The audit was performed at 1:21 PM on **May 13, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager was contacted by phone to discuss site conditions.

The last audit was performed on May 8, 2020

The weather conditions were clear, sunny, and dry, with gusting winds out of the Southwest

Landfill Operations Audit:

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

The operation required the use of one compactor. one bulldozer, two excavators, and one haul truck

- A) Working Face and Location
 - Working face on Southwest corner of the outboard slope of Phase 7 South, at the top of slope
 - Liquid loads were tipped in a trench nearer to Phase 6
 - ADC soils being tipped adjacent to working face on level slope
 - Daily cover consists of site soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site delivering half of flow to MMSD
 - Flare destructing LFG that is not being delivered to MMSD
 - MMSD controlling flow of gas
 - Total gas destruction 2,300 to 2,400 cfm
- D) Surface Water Management
 - Site drying out since last audit, basins recovering free-board
 - Temp sed basin well drained by pumping
 - Site erosion minimal



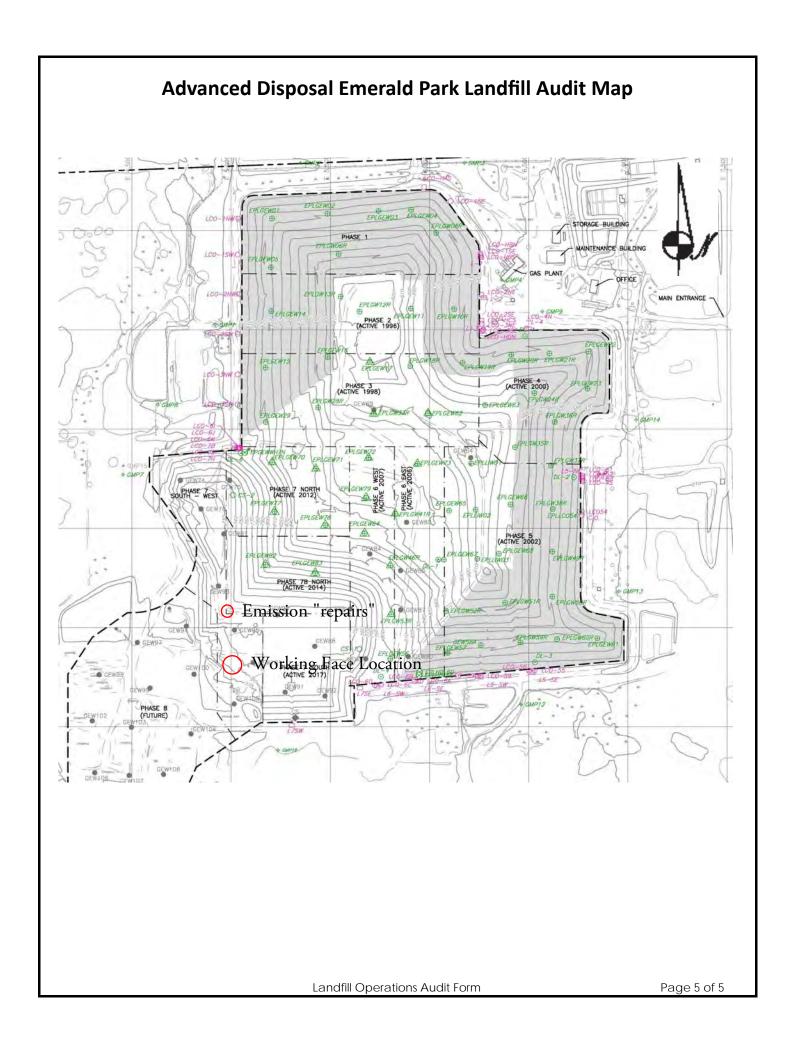
- E) Odor Control
 - No odors on or off site
- F) Liquid Loads
 - Tipped in Phase 7 South, away from Outboard slope
 - Volumes reduced by 2/3rds due to process improvements
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers, well spaced about the site
 - Litter in on site trees; basins being picked during audit
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and entrance very dusty
 - Entrance very potholed and patched with stone
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators + site manager
 - Receiving 1,800 TPD of MSW, C&D, and special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Boxes being empties during audit, about half completed
 - Site clean
- L) Other Comments
 - Site manager operating excavator on West slopes to address emission exceedances by placement of cover
 - Site staff active in replacement of pumps and pump components for leachate management about site

	ADVANG	LANDFIL	SAL SERVICES L OPERATION CITY OF MUS	IS AUDIT I	D PARK LANDFII FORM	_L	
PROJEC	CT NO. 1020.10030		CITT OF WIOS	REGO			
D	ATE <u>May</u> Auditor on site at:	<u>v 13, 2020</u> Open		Close	TIMI	E1:2	1 PM
PREVIO	OUS DATE: M	ay 8, 2020)	Comple	eted X		
	HER <u>Clear and dry</u>	•					mph gusting O E Ø
TE	MP Maximum	61 °	F Minimum	50	°F B.P)	30.29
	R EQUIPMENT USED IN L	^	IED A TIONIC				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor	Kerited	Contracted	110.	DESCRIPTION	Remed	Contracted
1	Dozer						
2	Excavator						
1	Haul Truck						
	Water Truck						
	Grader						
	2.5.5.5						
MAJOR E	EQUIPMENT BONEYARD	<u> </u>	<u>I</u>	<u> </u>		· ·	
No.	DESCRIPTION	Broken	Maintenance	e No.	DESCRIPTION	Broken	Maintenance
Working	g Face Size and Locati	on:					
Wor	king face in Southw	est corner	of the outh	oard slo	pe of Phase 7	South, a	at top of slop
Liqu	id loads are tipped i	n a trench	near the ho	oarder of	FPhase 6 & 7		
Liqu	nu ioaus are uppeu i		ilear tile be	Jaruer O	1 Hase 0 & 7		
-ADG	C soils are being tipp	oed near w	orking face	for futu	re cover		
-	8 11						
-							
					TO	ENVIRO	ONMENTAL.
						2410 N. PALMER	STREET T
						MILWAUKEE, WI	53219-3800
		Land	dfill Operations	Audit Form			Page 1 of 5

Cover Material:				
Site soils in use for outboard sl	ope cover, excavated from fo	iture Phase 8		
Leachate Management:	NZ			
Discharge to MMSD	X Recirculation			
Phases:				
C Gas Monitoring and Manag	ement: Check approp	riate box.		
Flares in Operation: YES		1		
Blowers in Operation: YES		1		
Flare use since last audit	# Continuous			
Shutdowns Since Last Audit:	Continuous			
Total Number of Wells # A		# All		
Flow to MMSD:	***	cfm		
Comments:	# 2,300	CIIII		
	. 1 1 1/		1.0.00	
MMSD controlling flow	vs, approximately half	the gas is going	to MMSD	
volume has been fluctua	ating between 2,300 as	nd 2,400 cfm		
Surface Water Management:	Storm Events Sir	nce Last # 1	Est. Volume minir	
		1 -		ınaı
EFFECTS: Note condition of per water/waste contact locations:	meter road, erosion control	structures, erosion da	mage and possible storm	
Basins draining well, te	mn sed basin well drai	ned by numping		
Dasins draining wen, te	inp sed basin wen diai	ned by pumping		
erosion about site mini	mal			
Odor Control:				
Odors Present: On:	site Offsite			
Comments:				
Comments.				
There were no odors o	n site or off nor comm	laints made on (
I Here were no odors o.	ir once or on, nor comp	raille illauc oil C	'/1 1./	
Liquid Loads Received:				
' '	retam liquid land from	uoney has dimini	shad by 2/3rds	
Client has new press sy				
liquid loads being rece	ived and tipped East o	f working face to	o protect the outboard slo	<u>pe</u>
			_	
	Landfill Operation	ns Audit Form	Page 2 o	of 5

	Littor Control
G.	Litter Control: Litter Present Onsite: YES X NO T
	<u> </u>
	Comments:
	Litter in onsite trees, basins being picked during audit.
	No offsite litter
	TWO OHSILE HELEI
H.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
	Union Church Road clean, US45 and site roads very dusty and entrance to site potholed
	and patched with stone.
	una patenea with stone.
I.	Inspection of incoming Waste:
	Scale Camera Operator: YES X NO # 1
	Equipment Operator: YES X NO # 3 + site manager
	Spotter: YES NO X #
	Random Load Inspection Dates:
	Tonnage: 1,800 TPD
	Comments:
	MSW, C&D, soils, and Special wastes being tipped
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1. None
	2.
K.	Residential Drop Off: Open During Audit E-Waste Container Present X
	Boxes being emptied during audit, about half emptied during audit.
	oire alore
	site clean
	Landfill Operations Audit Form Page 3 of 5

* Site manager operating excavator on West slopes to address emission ex	cceedances
by placement of cover	
* Site staff is active in replacement of pump and pump components for l	eachate managen
about site.	
	
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	<u></u>
	<u> </u>
Auditor's Signature:	Date: <u>05/13/</u>
Auditor's Printed Name: Yo-Walter Spear, Jr., P.E. Management Signature: // / / / / / / / / / / / / / / / / /	Date: 5/18/
Management Printed Name: Michael Hacksey	Emaila.
Management Title: / Eq.M. J JSA Principal Signature	Date:
JSA FIIIICIPAI SIGNATORE	,
·	



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Site viewed from Union Church Road





Site viewed from Union Church Road



West slope of footprint



Landfill viewed from the West



Slope repairs to improve gas collection



Small seeps on West slope of Phase 7



Dozer placing cover as slope elevations are reached



Working face viewed from the West



Future Phase 8 and temp sed pond



Phase 7 North, West slope



Compactor active at Working Face

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 05/21/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of May 17, 2020. The audit was performed at 1:03 PM on **May 20, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Michael Hackney, General Manager, discussed the audit after the drive around.

The last audit was performed on May 13, 2020

The weather conditions were clear, sunny, and dry, with regular winds out of the East

Landfill Operations Audit:

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

The operation required the use of one compactor. one bulldozer, one excavator, and one haul truck

- A) Working Face and Location
 - Working face on West side of Phase 7 South, but East of top of slope
 - Liquid loads were tipped in working face
 - Daily cover consists of previously tipped ADC Soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site no delivering to MMSD due to high moisture content
 - Flare destructing LFG that is not being delivered to MMSD
 - Total gas destruction 2,400 cfm, up slightly since last audit
- D) Surface Water Management
 - Site received two heavy rain events and one minor, additional rain of ~5 inches.
 - Basins 2 & 3 filled to top of control structure
 - New erosion on unvegetated slopes
 - Erosion into temp sed basin at South end has sediment higher than the rain flap to Phase 7 South Phase 1



- E) Odor Control
 - No odors off site, minor odor at toe of slope of Phase 7 South
- F) Liquid Loads
 - Tipped in Phase 7 South, away from Outboard slope
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers on East slopes during audit clearing slopes and ditches
 - Litter mostly removed from trees
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and entrance very dusty
 - Some tracking at WMWI, but greatly reduced
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving 1,800 TPD of MSW, C&D, and special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - One box full, all empty, full box was the metals box
 - Site clean
- L) Other Comments
 - Emission testing repairs completed 3 out of 7 emission sites. Compares will continue when slopes are dry
 - Auditor will have leachate discussion after review the RD&D permit
 - Site manager believes odors are coupled with leachate volume

	ADVANC				D PARK LANDFI	LL	
			L OPERATION		FORM		
			CITY OF MUS	KEGO			
PROJECT	NO. 1020.10030						
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DAT	Auditor on site at:	20, 2020			TIM	<u> </u>	TH
	Auditor on site at:	Open		Close			
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PREVIOUS	S DATE: MER Clex, Swall	ıy 13, 202	20	Comple	eted 🔼	1	
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TEM	P Maximum6	<u>.4 </u>	F Minimum	49	°F B.F	·	30.18
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	QUIPMENT USED IN LA			I. i	T	T	
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
	Compactor						
1	Dozer			 		ļ	
	Excavator			·		-	
	Haul Truck						
	Water Truck		 	·			
	Grader						
	UIPMENT BONEYARD	- In	1	Is to	T		
No.	DESCRIPTION \	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenanc
	got road par	1:0-1					
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AA7 - older - F							
working F	Face Size and Location	n:		• 1			
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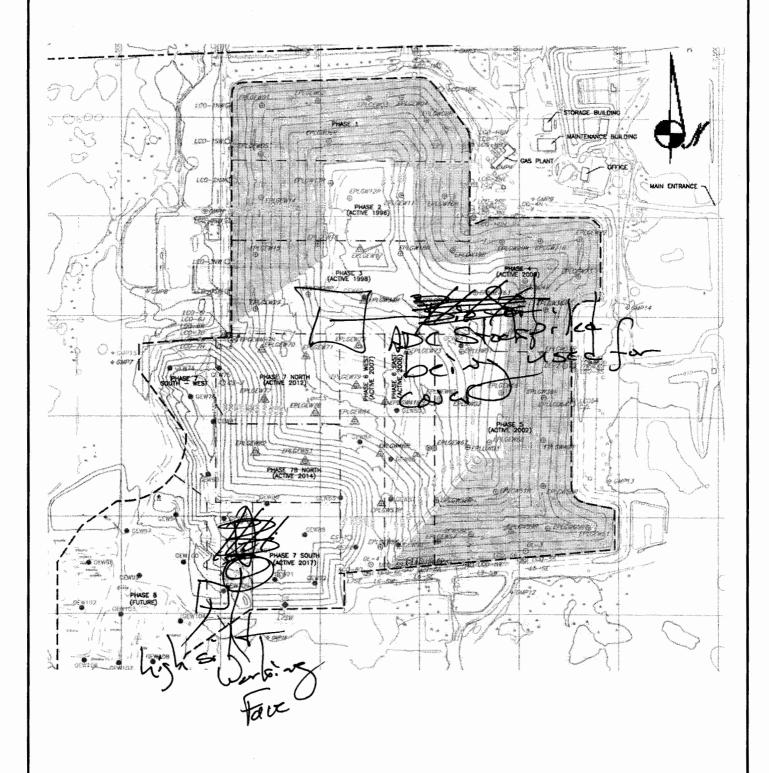
.

Cover Material: ADC soils previous by +:) pred	
B. Leachate Management: Discharge to MMSD Phases:	
C. Gas Monitoring and Management: Check appropriate box. Flares in Operation: Blowers in Operation: YES NO # Blowers in Operation: YES NO # Flare use since last audit Shutdowns Since Last Audit: Total Number of Wells # Flow to MMSD: Comments: Mais two two has appropriate box. Flares in Operation: H Flare use since last audit # Comments: H Flow to MMSD: Comments:	
D. Surface Water Management: Storm Events Since Last #3 Est. Volume EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storwater/waste contact locations: Storm Events Since Last #3 Est. Volume EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storwater/waste contact locations: Storm Events Since Last #3 Est. Volume EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storwater/waste contact locations: Storm Events Since Last #3 Est. Volume	~ 44 rm
E. Odor Control: Odors Present: Comments: Onsite Offsite Over the control of t	Japa
F. Liquid Loads Received: Tippedia Hase Tour	
Landfill Operations Audit Form	Page 2 of 5

-	
G.	Litter Present Onsite: YES NO Litter Present Offsite: YES NO M. Pickers Active: YES NO M. Comments: Litter Present Offsite: YES NO M. Pickers Active: YES NO M. Litter Present Offsite: YES NO M. Pickers Active: YES NO M. Litter Present Onsite: YES NO M. Pickers Active: YES NO M. Litter Present Onsite: YES NO M. Pickers Active: YES NO M. Litter Present Onsite: YES NO M. Pickers Active: YES NO M. Litter Present Offsite: YES NO M. Litter Present Offsite: YES NO M. Pickers Active: YES NO M. Litter Present Offsite: YES NO M. Litter Present Offsite: YES NO M. Pickers Active: YES NO M. Litter Present Offsite: YES M. Li
н.	Vehicle Impacts. Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads. Source for the condition of access and public roads and control measures taken, instances of trucks on County roads.
l.	Inspection of incoming Waste: Scale Camera Operator: YES NO # Equipment Operator: YES NO # Spotter: YES NO M # Random Load Inspection Dates: 5/13 2020 Form Tonnage: Soo Soo Soo Soo Soo Soo Soo Soo Soo So
J.	Rejected Loads: Date/Time Reason for Rejection 1. 2.
K.	Residential Drop Off: Open During Audit
	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
A the search sites will continue of the search to have leachete diss	epails when
Cutive and its	7.2
at Odors tinked to moioture in was de	
Mass.	
Auditor's Signature:	Date: 5/20/2000
Auditor's Printed Name: Management Signature: Management Printed Name: Management Title: JSA Principal Signature:	Date: 5/20/2
l andfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Site viewed from Union Church Road, trucks very active





Site viewed from Union Church Road



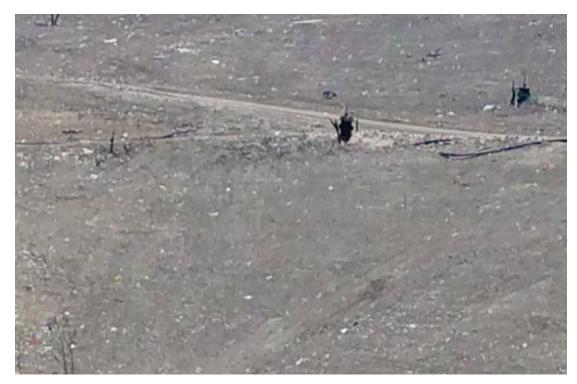
West slope of Phase 7 North



Landfill viewed from the West



Overview of West slopes



Small seep on Phase 7 South West slope



South slope of Phase 7 South, viewed from West



Temp sed basin, well pumped down



Temp sed basin, North end against Phase 7 North



South portiin if Temp Sed Basin, adjacent to Phase 7 South



South slope with some erosion after two days of storms



Siltation in South end of the Temp Sed basin, silt is higher than rain flap of Phase 7 South



South slope with some erosion after two days of storms

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
Openea.	Opuatou.	3 1/03/20 17 - Olcarca

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 06/03/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. Audits will not be conducted in a shared vehicle until social distancing requirements have been revoked. Audits will be conducted in office or over the phone after the auditor has made all observations.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of May 24, 2020. The audit was performed at 10:30 AM on **May 28, 2020** by Jo Spear, Jr. ADS EPLI provided a vehicle to allow the auditor to travel about the site to make observations. Tim Curry, Region Landfill Operations Manager, reviewed and signed the audit.

The last audit was performed on May 20, 2020

The weather conditions were rainy with some sun

Landfill Operations Audit:

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

The operation required the use of one compactor. one bulldozer, one excavator, and one haul truck

- A) Working Face and Location
 - Working face on West side of Phase 7 South, but East of top of slope; roughly in Southwest corner of Phase
 - No liquid loads being accepted
 - Daily cover consists of previously tipped ADC Soils
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
 - Site not delivering to MMSD due to high moisture content
 - Flare destructing LFG that is not being delivered to MMSD
 - Total gas destruction 2,400 cfm
- D) Surface Water Management
 - Basins draining well, temp sed basin well drained by pumping
 - Erosion about site minimal
 - Erosion into temp sed basin at South end has sediment higher than the rain flap to Phase 7 South Phase 1. To be addressed as weather/wet conditions allow.



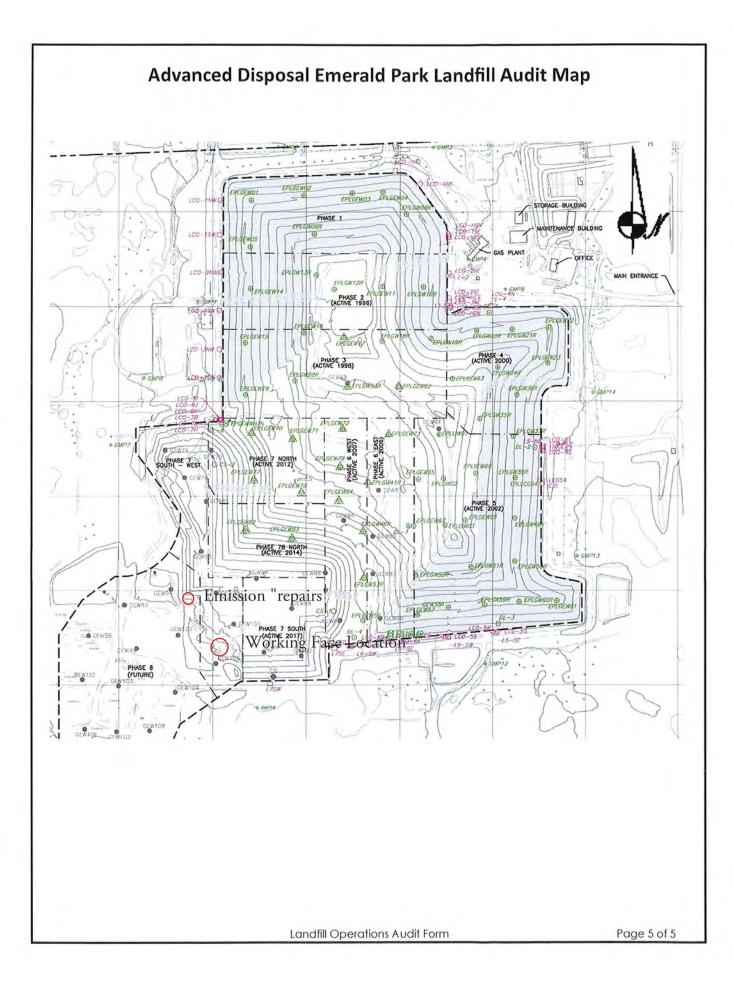
- E) Odor Control
 - No odors on site, but sever gas odors on US 45 and in the Metro parking lot
- F) Liquid Loads
 - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Litter mostly removed from trees
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and site roads very dusty
 - Entrance potholed and patched with stone
 - Some tracking at WMWI, but greatly reduced
- I) Inspection of Incoming Waste
 - Site operating with four equipment operators
 - Receiving NA TPD of MSW, C&D, and special wastes
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Site clean and boxes mostly empty
- L) Other Comments
 - General Manager no longer affiliated with Advanced on 5/29/2020. Action items will be included in next audit.
 - · Audit discussion and review performed by Regional Manager.
 - Temporary manager to begin on 6/1/2020
 - Site activities for addressing emissions ongoing on West slope of Phase 7 South
 - Soils being staged at toe of slope, West slope of Phase 7 South for future erosion restoration

	ADVAN	LANDFIL	CAL SERVICES LOPERATION CITY OF MUS	IS AUDIT	LD PARK LANDFI FORM	LL	
PROJEC	TNO. 1020.10030		0111 01 11100				
DA	ATE May	, 28, 2020			TIM	E 10.3	30 AM
-	Auditor on site at:	Open		Close		10	207 / / / / / / / / / / / / / / / / / / /
	US DATE: M						out of the W
		77 °			6 °F B.F		
MAJOR	EQUIPMENT USED IN L	ANDFILL OP	ERATIONS				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
2.	Dozer						
1	Excavator		11:				
2	Haul Truck			-			
	Water Truck						
	Grader						
MAJOR E	QUIPMENT BONEYARD						
٧٥.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenand
	Face Size and Locati		outh, in Sou	ıthwest	corner.		
No li	quids being tipped						
						2	
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		Lone	dfill Operations	Audit For	m		Page 1 of 5

	Soils stockpiled from previous tipping days and site soils
,	La valla II. Mara va a va alt
3.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES X NO # 1
	Blowers in Operation: YES X NO # 1
	Flare use since last audit # Continuous Shutdowns Since Last Audit: # 1
	Total Number of Wells # All Under vacuum # All
	Flow to MMSD: # 2,400 cfm
	Comments:
	No delivery to MMSD, all destruction through flare.
٠.	Surface Water Management: Storm Events Since Last # 1 Est. Volume minimal
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations: Basins draining well, temp sed basin well drained by pumping
	erosion about site minimal
	Odor Control:
	Odors Present: Onsite Offsite
	Comments:
	No on site odors, but severe gas odor on US 45 and in Parking lot of Metro
	Liquid Loads Received:
	Site not taking liquid loads due to leachate elevations on liner.

G. Litter Control:
Litter Present Onsite: YES X NO X
Litter Present Offsite: YES NO X
Pickers Active: YES 💹 NO 🗌 #
Comments:
Litter in trees reduced, site litter well controlled
I. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
Union Church Road clean, US45 and site roads very dusty and entrance to site pothole
and patched with stone.
Inspection of incoming Waster
Inspection of incoming Waste: Scale Camera Operator: YES X NO # 1
Spotter: YES NO X #
Random Load Inspection Dates: Form L Tonnage:
MSW, C&D, soils, and Special wastes being tipped
Rejected Loads:
Date/Time Reason for Rejection
1. None
2.
Residential Drop Off: Open During Audit
Site clean and boxes mostly empty
Landfill Operations Audit Form Page 3 o

 * Site Manager was removed on 5/29/2020. Action item 	s will be added on next audit
and portions of this audit were impacted by no contact w	th the ex-manager
* Site activities for addressing Emissions ongoing on We	st slope of Phase 7 South*
* Soils being staged at toe of slope, West slope of Phase 7	⁷ South for future erosion
restorations.	· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·
$\langle \Lambda 1 \rangle \leq$	
Auditor's Signature: Auditor's Printed Name: O-Walter Spear, Jr., P.E.	Date: <u>06/03/</u>
	Date: 6/3/
Management Signature: Management Printed Name: Management Title: Region Landtill Operators N	langer.



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



1. Temp sed basin forebay





2. West slope of Phase 7 South, seep repairs by placement of soil cover



3. Working face at Southwest corner of Phase 7 South, East of top of slope



4. Southwest corner of Phase 7 South



5. Soil stockpile to add to cover for seeps or emissions



6. Excavator performing slope repairs for Emissions and/or seeps



7. Excavation of future Phase 8, soil being used in the back ground at South end of Temp Sed Basin



8. Temp Sed Basin Forebay, some cleaning appears to have been done for silt

ADS Emerald Park Landfill

Action Items Checklist City of Muskego Audit

Opened:	Updated:	01/09/2014 - Cleared
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Item Number	DATE month/date/year	Condition Description	Permit or Contract Reference	Initial Schedule for Completion	Observed Completion Date	Elapsed Time (Days)	Notes





ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 06/08/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense. This audit was the first to be conducted with the temporary site manager and auditor in a shared vehicle.

On May 29, 2020 Mike Hackney was removed from the roll of General Manger and is no longer an employee of Advanced Disposal. During the transition of site ownership and the search for a new General Manger, Jake Margelofsky will be acting as site manager at Emerald Park.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of May 31, 2020. The audit was performed at 12:38 PM on **June 5, 2020** by Jo Spear, Jr.; in the presence of Jake Margelofsky; the temporary Site Manager.

The last audit was performed on May 28, 2020

The weather conditions were sunny with low clouds and potential rain, winds out of the West

Landfill Operations Audit:

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

The operation required the use of one compactor. two bulldozers, one excavator, and two haul trucks

- A) Working Face and Location
 - Working face in Northwest corner of Phase 7 South, right in the bend of the access road at the top of slope
 - No liquid loads being accepted
 - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
 - Site receiving soils, being stockpiled adjacent to working face for use as daily cover
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
 - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
- C) Gas Monitoring and Management
 - Gas plant operation and delivery intermittent with gas field repairs on West slope of Phase 7 North
- D) Surface Water Management
 - Basins draining well, erosion and seeps being repaired on West slope of Phase 7



- Erosion about site minimal
 - Erosion into temp sed basin at South end has sediment higher than the rain flap to Phase 7
 South Phase 1. To be addressed as weather/wet conditions allow.
- E) Odor Control
 - Minor gas odor on US 45 and stronger gas odors on access road into Phase 7
- F) Liquid Loads
 - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers active during audit. Tree litter all removed
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and site roads very dusty
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators
 - Receiving ADC Soils, MSW, and C&D
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Site very busy during audit, boxing filling
- L) Other Comments
 - In late June site will be receiving auto-fluff for daily cover
 - Contractor on site aiding in erosion, seep, and gas field repairs
 - Action Item A large breech or seep occurred on May 28, 2020 discharging leachate from Phase 7 South into the temp sed basin forebay. Advanced has corrected the seep and will be cleaning the impacted area over the month of June
 - Cleanup will require the draining of the temp sed basin by pumping to trucks and regrading the basin, disposing of contaminated soils into the landfill
 - Action Item Site will be receiving an NOV and is already under an NON from the DNR regarding leachate head levels. The site will be actively draining leachate to reach compliance.
 - As of June 5th the site had Phase 1 thru 3 in compliance.



May 21, 2020

Ms. Ann Bekta Wisconsin Department of Natural Resources 2514 Morse Street Janesville, WI 53545

Re: ADS Emerald Park Landfill, LLC

Research, Development and Demonstration Plan, ADS Emerald Park Landfill (#3290)
Discovery of Warning Symptoms and Suspension of Leachate Recirculation/Liquids Application

Dear Ms. Bekta:

In accordance with the Conditional Plan of Operation Approval Modification for the Research, Development and Demonstration (RD&D) Plan Renewal dated October 16, 2019 for the Advanced Disposal Services Emerald Park Landfill (Emerald Park), we are providing the Wisconsin Department of Natural Resources (Department) the following notification.

The Conditional Plan of Operation Approval states:

"Warning Symptoms - Leachate recirculation and the introduction of liquids will be suspended upon discovery of warning symptoms and may not resume in the areas where the problem occurred until changes are made to the system or the warning symptoms have declined to acceptable levels. ADS will notify the department in writing within 7 days of the discovery of warning symptoms and suspension of leachate recirculation. Warning symptoms may include the following:

• Leachate head wells showing persistent elevated liquid levels"

During a thorough review of data collected for the RD&D Annual Report, a number of anomalies were identified that we determined required further evaluation. This evaluation was completed on May 18th, 2020 at which time it was determined that leachate head well levels were in excess of the regulatory requirements and have been for a yet undetermined amount of time. Evaluations of historic leachate head well readings, leachate headwell infrastructure and leachate removal infrastructure are ongoing and results will be provided to the Department as additional information becomes available.

As a result of these findings, Emerald Park immediately suspended all leachate recirculation and acceptance of non-hazardous liquid waste allowed under this RD&D approval. The suspension will remain in effect until a determination is made demonstrating acceptable liquid levels have been achieved



and sustained and concurrence from the Department that Emerald Park can return to operation under the RD&D Approval.

At your request a conference call/Skype meeting has been scheduled on May 26th to allow for a more thorough discussion regarding the cause of these conditions and corrective actions to be implemented to return to compliance as quickly as possible.

Sincerely,

Advanced Disposal Services

Timothy D. Curry

Midwest Region Landfill Operations Manager

cc: Cynthia Moore - WDNR

David Buser - WDNR

Jay Warzinski – Advanced Disposal Services Dan DeWaard – Advanced Disposal Services Mike Hackney – Advanced Disposal Services State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Tony Evers, Governor Preston D. Cole, Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



May 27, 2020

File Ref: FID 268244130 Waukesha Co. SW Corr.

Mr. Michael Hackney Advanced Disposal Services Emerald Park Landfill, LLC W124 S10629 South 124th Street Muskego, WI 53150

Subject: NOTICE OF NONCOMPLIANCE

Advanced Disposal Services Emerald Park Landfill (License #3290)

Dear Mr. Hackney:

On May 21, 2020, Advanced Disposal notified the department, as required by the research, development and demonstration plan, of leachate head wells showing persistent elevated liquid levels at the Emerald Park Landfill. On May 26, 2020, Advanced Disposal and the department discussed the elevated leachate head levels and leachate pumping activities at the landfill. Advanced Disposal indicated the landfill has had elevated leachate head levels for an extended period of time and has not removed leachate in accordance with the plan of operation and code requirements. It appears that the landfill is in violation of state solid waste management regulations and the June 9, 2011 plan of operation approval.

Section NR 506.07(5)(a), Wis. Adm. Code states leachate shall be removed from all collection tanks, manholes, lift stations, sumps or other structures used for leachate storage as often as necessary to allow for gravity drainage of leachate from the facility at all times or as it is produced, including hours when the landfill is closed, such as overnight and weekends.

Section NR 504.06(1)(a), Wis. Adm. Code states all major phases of landfills initially accepting municipal solid waste after July 1, 1996, shall be designed with a composite liner and a leachate collection system capable of limiting the average leachate head level on the composite liner to one foot or less during operation and after closure of the landfill.

Condition 1 of the department's June 9, 2011 plan of operation approval states all aspects of construction and operation of the landfill shall be performed in accordance with the plan of operation, the requirements of chs. NR 500 to 538, Wis. Adm. Code, and the conditions of the approval.

Due to the seriousness of the noncompliance, the department will be issuing Advanced Disposal a notice of violation within the next few weeks.

If you have questions, please contact Ann Bekta at (608) 743-4845 or ann.bekta@wisconsin.gov.

Sincerely,

Cynthia Moore, Supervisor

Waste and Materials Management Program

South Central Region

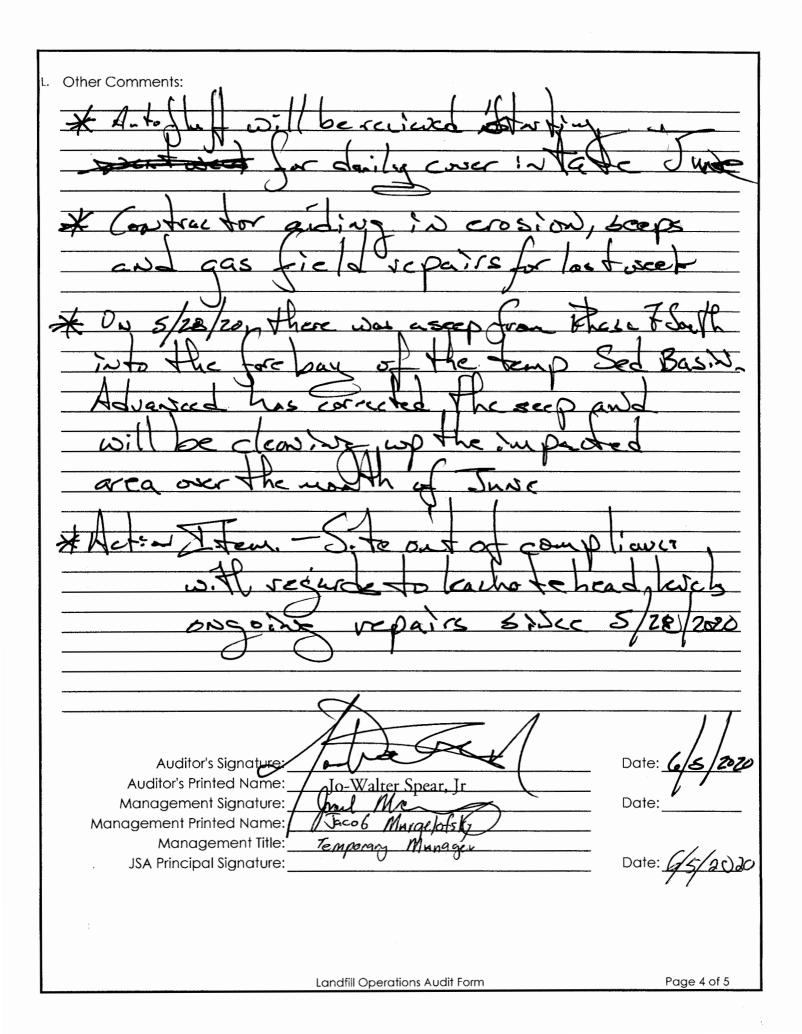


cc: Brad Wolbert – DNR WA/5 (e-copy)
Natasha Gwidt - DNR WA/5 (e-copy)
Ann Bekta – DNR SCR (e-copy)
David Buser – DNR SER/file copy (e-copy)
Tim Curry – ADS (e-copy)

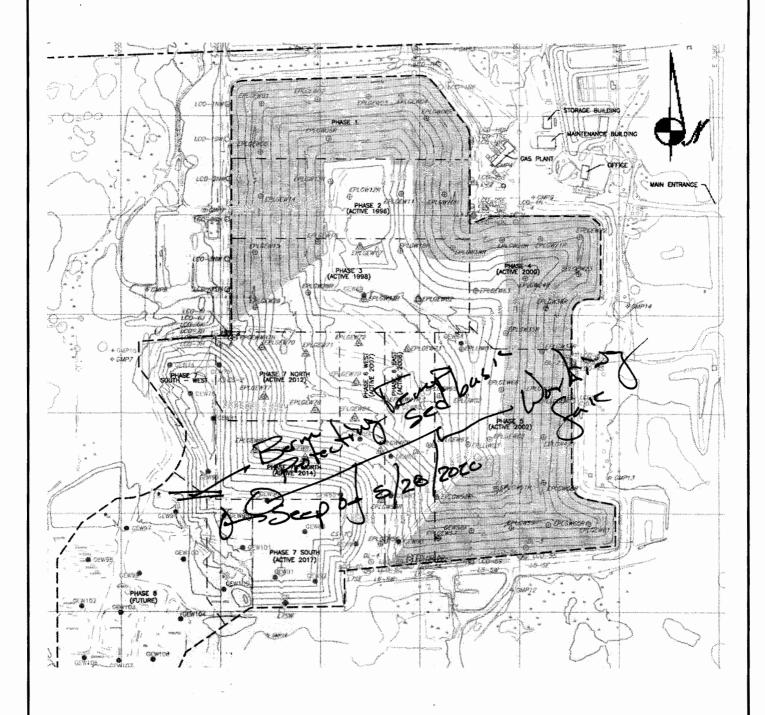
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В.	Leachate Management: Discharge to MMSD Recirculation Phases:
C.	Gas Monitoring and Management Check appropriate box. Flares in Operation: YES NO H H Blowers in Operation: YES NO H H Flare use since last audit # Shutdowns Since Last Audit: # Total Number of Wells # Under vacuum # Flow to MMSD: # cfm Comments:
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: Storm Events Since Last For Some Set Volume ON Set
E.	Odor Control: Odors Present: Comments: Wing Sus ode: WUSYS and Stronger
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Present Onsite: YES NO L Litter Present Offsite: YES NO L Pickers Active: YES NO L # 3 Comments:
н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads. Site Voads dust.
l.	Inspection of incoming Waste: Scale Camera Operator: YES NO #
J.	Rejected Loads: Date/Time Reason for Rejection 1. 2.
K.	Residential Drop Off: Open During Audit E-Waste Container Present Site Jery August August
	Landfill Operations Audit Form Page 3 of 5



Advanced Disposal Emerald Park Landfill Audit Map



ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face viewed from North, in Phase 7 North





Working face in Northwest corner of Phase 7 South



Working face and access to previous faces



Temp sed basin, contaminated with leachate from seep in Phase 7 South



Gas system repairs on Phase 7 North, West slope



Excavation of future Phase 8



Excavation of future Phase 8, soil being used in seep repairs



West slope of Phase 7 North, some seep repairs evident



West slope of Phase 7 North



Temp sed basin viewed from the North, closed off at the South end until cleaned and graded

ADS Emerald Park Landfill Action Items Checklist City of Muskego Audit

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 06/18/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of June 7, 2020. The audit was performed at 11:27 AM on **June 12, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the future Site Manager.

The last audit was performed on June 5, 2020

The weather conditions were clear and sunny, drying the site. Winds out of the West

Landfill Operations Audit:

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

The operation required the use of one compactor. three bulldozers, and a emissions sampling drone.

One dozer and one excavator were under repair

- A) Working Face and Location
 - Working face on the West edge of Phase 7 South, at top of slope, South of access road
 - No liquid loads being accepted
 - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
 - Previously tipped soils in Phase 3 being used for daily cover
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
 - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
 - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
- C) Gas Monitoring and Management
 - Gas volume down 100 cfm, 2,300 cfm being destructed. MMSD controlling flows
- D) Surface Water Management
 - Basins draining well, erosion and seeps being repaired on West slope of Phase 7
 - Erosion about site minimal
 - Erosion into temp sed basin at South end has sediment higher than the rain flap to Phase 7
 South Phase 1. To be addressed as weather/wet conditions allow.
- E) Odor Control



- Gas odor on Union Church road when winds lessens
- F) Liquid Loads
 - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Two pickers active on site; site well picked and onsite trees clean
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and site roads very dusty
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators and one contractor
 - Receiving MSW, C&D, and soils
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present
 - Site very busy during audit and boxes being emptied by roll-off truck
- L) Other Comments
 - Three contractors on site
 - Mueller Excavating cleaning sed basin #1 and restoring slopes. Soils tipped on Phase 7
 - Dead End Trucking repairing seeps and aiding in basin restoration
 - Drone flying site testing for emissions

ADVANCE	D DISPOS	AL SERVICES	EMERAL	D PARK LANDFIL	L	
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		CITY OF MUS	KEGO			
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C.	Gas Monitoring and Management. Check appropriate box. Flares in Operation: YES NO # Blowers in Operation: YES NO # Flare use since last audit # Shutdowns Since Last Audit: # Total Number of Wells # Under vacuum, # All Flow to # Z Soot for ucfm Comments:
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/contac/locations:
E.	Odor Control: Odors Present: Comments: Odors Wheel Wheel Wheel
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G. Litter Control: Litter Present Onsite: YES MNO L Litter Present Offsite: YES NO M Pickers Active: YES MNO H # 2 Comments: Comments:	
H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and taken, instances of trucks on County roads. USUS & USUS COUNTY COUNT	d control measures
Inspection of incoming Waste: Scale Camera Operator: YES MO #	
J. Rejected Loads: Date/Time Reason for Rejection 1. 2.	
Residential Drop Off: Open During Audit E-Waste Container Present August Augu	emples
Landfill Operations Audit Form	Page 3 of 5

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Landfill Operations Audit Form	Page 4 of 5

Advanced Disposal Emerald Park Landfill Audit Map Landfill Operations Audit Form Page 5 of 5

ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face with daily cover stockpiled about edges





Working face on West edge of Phase 7 South



Working face and access to previous faces



North slope of Phase 7 South



Filter trailer for removing sediment from Temp Sed Basin leachate clean up



Previous cover and West slope of Phase 7 North viewed from East



View North along West edge of Phase 7



West slope of Phase 7 South



Overview of West slope of Phase 7



West slope of Phase 7 North, several seep repairs were done in last two weeks



Seep repair on West slope of Phase 7 North, was a large seep



Temp Sed Basin, contaminated with leachate, pumped to tanker for removal



To aid residents, the site depicts 1.5 cubic yards

ADS Emerald Park Landfill Action Items Checklist City of Muskego Audit

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 06/18/2020

PROJECT NUMBER: 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of June 14, 2020. The audit was performed at 1:35 PM on **June 17, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the future Site Manager.

The last audit was performed on June 12, 2020

The weather conditions were clear and sunny summer weather, winds fluctuating from South to East

Landfill Operations Audit:

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

The operation required the use of one compactor, two bulldozers, an excavator and a haul truck

- A) Working Face and Location
 - Working face on South end and West edge of Phase 7 South
 - No liquid loads being accepted
 - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
 - Soils excavated from future Phase 8 being used for daily cover
- B) Leachate Management
 - Leachate being pumped to MMSD treatment
 - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
 - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
- C) Gas Monitoring and Management
 - Gas volume returned to 2,400 cfm, partial delivery to MMSD
 - Gas wells still being purged of water
- D) Surface Water Management
 - Basins draining well,
 - Basin #1 cleaning and restoration nearly complete, contractor placing control structure
- E) Odor Control
 - Gas odor on access road only, no offsite odors



- F) Liquid Loads
 - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
 - Advanced is limiting pickers on the site to minimize risk
 - Three pickers active on site; site well picked
 - Pickers active in site maintenance
- H) Vehicle Impacts
 - Union Church Road clean
 - US45 and site roads very dusty
- I) Inspection of Incoming Waste
 - Site operating with three equipment operators and one contractor
 - Receiving MSW, C&D, paper board, and soils
- J) Rejected Loads
 - None
- K) Residential Drop Off
 - E-Waste Container present and over flowing
 - Site boxes mostly full
- L) Other Comments
 - Seep repairs complete
 - Temp sed basin pumping to PTW on going
 - Site receiving a new inbound scale
 - Roughly a month of one scale use
 - Leachate pumping ongoing to approach compliance
 - Overall site leachate depth ~1.6', down from a previous ~6.5' depth

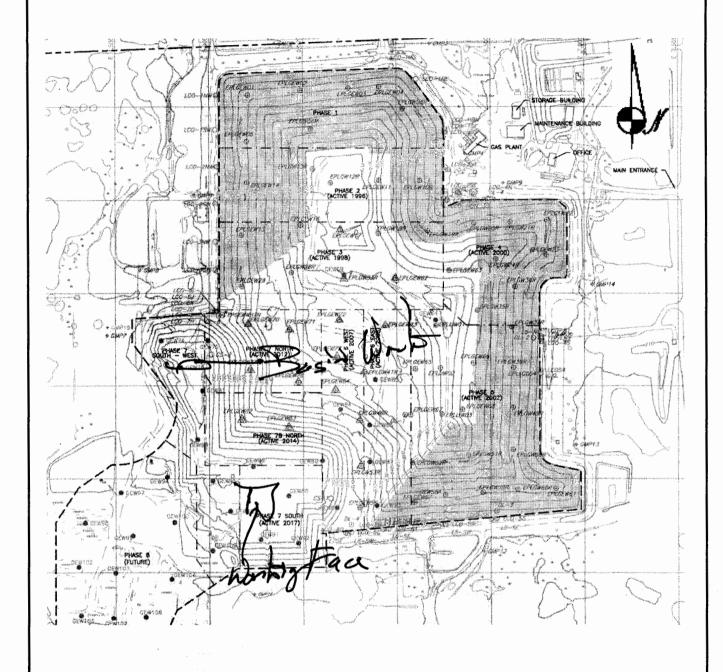
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	Gas Monitoring and Management. Check appropriate box.  Flares in Operation:  Blowers in Operation:  YES  NO  #  Flare use since last audit  Shutdowns Since Last Audit:  Total Number of Wells  #  Under vacuum  #  Flow to MMSD:  Comments:  #  #  #  #  #  #  #  #  #  #  #  #  #
	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:  Surface Water Management:  Est. Volume  Est. Volume  Could be surface water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water water wat
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G.	Litter Control:
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	Litter Present Offsite: YES NO V
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Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
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l	Date/Time Reason for Rejection
l	2.
K.	Residential Drop Off: Open During Audit    E-Waste Container Present
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	5, to boxes mostly full, site clear
	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
* Seep repairs complete	
* Tems Sed has Drug Ding	A PRÒ
* Site reciently New Hala.	
te leachate Daysing on coing	
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Auditor's Signature:	Date: 6/14/20
Auditor's Printed Name: No Walter Spear, Jr Management Signature:	Date: 6-17-28
Management Printed Name:	<del>-</del>
JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5

#### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Working face at top of slope, soils stockpiled for daily cover





West slope of Phase 7



Access road from Phase 7 Norht to Phase 7 South, viewed from North



North slope of Phase 7 South



Working face between access road and top of slope, Phase 7 South



Active area of Phase 7 South, viewed from the North



Basin #1 cleaned and restored, new control structure being installed



Basin #1 cleaned and restored



North end of temp sed basin, pumping from this area to tanker



South end of temp sed basin



West slope of Phase 7, soils at top of slope for daily cover



Contractor separting temp sed basin to aid in pumping and future flow control



E-Waste box, over flowing

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 06/26/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of June 21, 2020. The audit was performed at 3:02 PM on **June 25, 2020** by Jo Spear, Jr.; in the presence of Jake Margelofsky; the Temporary Site Manager.

The last audit was performed on June 17, 2020

The weather conditions were clear, sunny, and dry; winds out of the South

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, two bulldozers, one excavator, and one haul truck. Contractor was operating one excavator and one haul truck.

- A) Working Face and Location
  - Working face at junction of Phase 7s, along West edge of Phases
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Soils excavated from future Phase 8 being used for daily cover, some soils being tipped
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin appeared to be pumped down by more than half
- C) Gas Monitoring and Management
  - Gas volume 2,400 cfm, partial delivery, 800 cfm, to MMSD
  - Gas wells still being purged of water
- D) Surface Water Management
  - Basins draining well, plenty of freeboard
  - Basin #1 cleaning and restoration complete



- E) Odor Control
  - No offsite odors, favorable wind during audit
  - Onsite odors at seeps uphill from access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site; site well picked
- H) Vehicle Impacts
  - Union Church Road and US45 clean
  - US45 and site roads very dusty
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, small volume soils, and special wastes
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and over flowing
    - Contractor will be emptying e-waste box twice per week
  - Boxes being emptied during audit
- L) Other Comments
  - No odor complaints for 6/25/2020; there were complaints at start of week
  - Temp sed basin pumping to PTW on going
  - Site receiving a new inbound scale
    - Roughly a month of one scale use
  - Leachate pumping ongoing to approach compliance
  - Seeps adjacent to access road exposed and being back filled with stone. May not be capped overnight, but will be by end of 6/26/2020
  - Bentonite placement and other emission controls ~70% complete

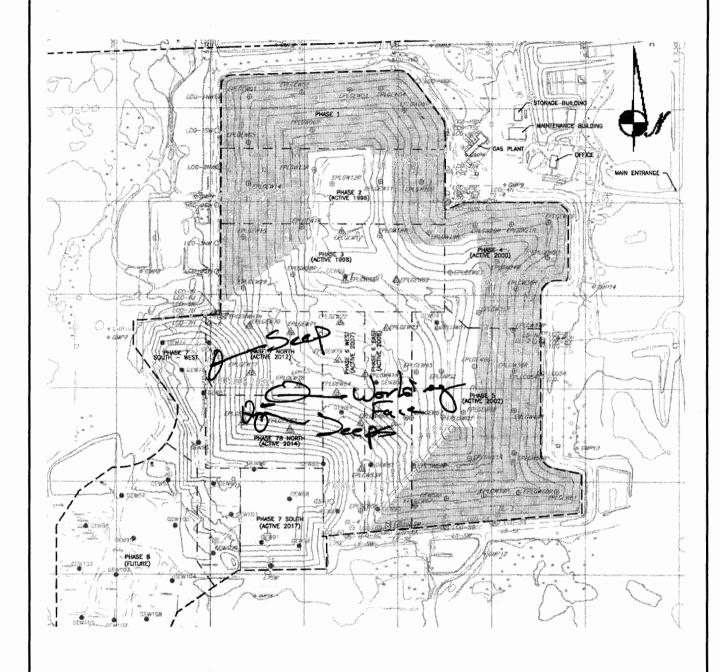
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B. Leachate Management:  Discharge to MMSD  Recirculation
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Shutdowns Since Last Audit: # / Lone .
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Flow to MMSD: # 300 cfm
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D. Surface Water Management: Storm Events Since Last # 3-4 Est. Volume 2-1.57
EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm
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F. Liquid Loads Received:
None
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Landfill Operations Audit Form Page 2 of 5

5. Litter Control:	
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Litter Present Offsite: YES NO Y	
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Landfill Operations Audit Form Page 3	3 of 5

L. Other Comments:
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Auditor's Printed Name: Jo-Walter Spear, Jr  Management Signature: Date: 6/25/20)
Management Printed Name: Tacob Marcetofsly
Management Title: Temp Manager
JSA Principal Signature: Date:
Landfill Operations Audit Form Page 4 of 5

#### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Bentonite and clay sealing about well heads





Bentonite and clay sealing about well heads



Excavation upslope of access road to address seeps and gas emissions. May not be capped by end of day, but will be by 6/26/2020



View across active area



Work in cleaning and restoring basin #1 complete



Access road up to Phase 7, area of recurring odors



View across temp sed basin, South to North



View across temp sed basin, South to North



Vegetation slow to grow on West slope of Phase 7. Yellowing areas are potentially evidence of vegetative stress caused by LFG



Seep in West slope, just above Temp sed basin. This is a re-accuring seep

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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





## **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 07/22//2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of June 28, 2020. The audit was performed at 2:00 PM on **July 1, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; Site Manager

The last audit was performed on June 25, 2020

The weather conditions were clear, sunny, and dry; winds out of the East

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, two bulldozers, two excavators, and two haul trucks. Contractor was operating two excavators and one haul truck.

- A) Working Face and Location
  - Working face moving Northward across Western edge of Phase 7 South
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Soils excavated from future Phase 8 being used for daily cover, some soils being tipped
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin refilled by rain event
- C) Gas Monitoring and Management
  - Gas volume 2,400 cfm being destructed by flare
  - MMSD to be shutdown for two weeks
  - Gas wells still being purged of water
- D) Surface Water Management
  - Basins draining well, no erosion issues



- E) Odor Control
  - No offsite odors, favorable wind during audit
    - Garbage odors from WMWI along US 45
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site; site well picked
    - Pickers actively mowing and Weed eating during audit
- H) Vehicle Impacts
  - Union Church Road clean
  - US 45 dusty with debris in left turn lanes
  - Site roads are rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, Soils, and ADC wastes
  - ~1,800 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and over flowing
  - Site clean and boxes mostly empty
- L) Other Comments
  - Well pumps are being replaced frequently
  - Temp sed basin cleaning began on 6/28/2020 at the South end
  - Site receiving a new inbound scale
    - · Concrete poured prior to today's audit
  - Leachate pumping ongoing to approach compliance
  - Dan Otzelberger named as new Regional Manager
  - Seep repairs up to date on site

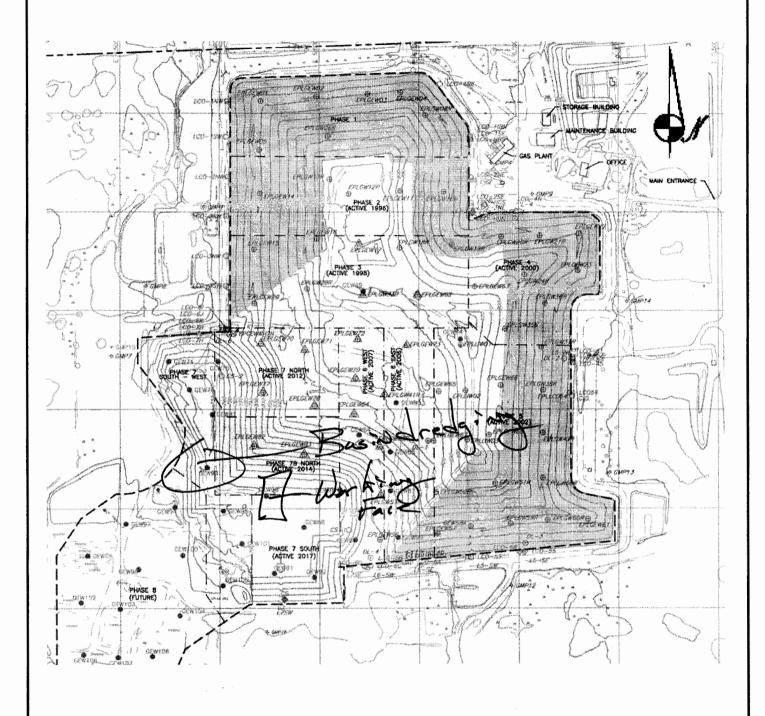
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		Landfill O	perations Audit F	orm		Page 2 of

<u></u>	Litter Control:
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	Litter Present Offsite: YES NO
	Pickers Active: YES NO # 7_
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	taken, instances of trucks on County roads.
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	Spotter: YES NO W # 1
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	Tonnage: 1,800 TEA
	Comments:
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J.	Rejected Loads:
	Date/Time Reason for Rejection
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K.	Residential Drop Off: Open During Audit
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	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
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basin, started a/20/20 at 15	Lead Soul
* Seale base poured to Long, Appro	σy
* New GM to be Dan Otzer ber	
of Seep repairs up to date	
Auditor's Signature:  Auditor's Printed Name:  Auditor's Printed Name:	Date: 7/01/2000
Management Signature:  Management Printed Name:  Management Title:  JSA Principal Signature:	Date: 7-1-20
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Landfill Operations Audit Form	Page 4 of 5

## **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



West slope on approach to working face in Phase 7





West slope of Phase 7 above access road



West slope of Phase 7 above access road



Current surface conditions about working face in Phase 7



Wet area above previously repaired seeps along access road



Temp sed basin split to manage leachate contamination



Temp sed basin being separated to manage leachate contamination



View across temp sed basin, East to West



View into future Phase 8 excavation from the East

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 07/22/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of July 5, 2020. The audit was performed at 1:20 PM on **July 5, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on July 9, 2020

The weather conditions was rain at the start of the audit, followed by Sun and dry conditions. Wind changed direction frequently

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers

- A) Working Face and Location
  - Working face in Northwest corner of Phase 7 South at the bend, at the top of the access road
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Cover consists of paperboard and other ADC
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp Sed Basin refilled by storm events
- C) Gas Monitoring and Management
  - Plant down due to power outage for four hours on 7/7/2020
  - MMSD taking partial delivery of total 2,000 cfm destructed
  - Gas wells still being purged of water
- D) Surface Water Management
  - Heavy, but short storm prior to Audit



- Basins with plenty of freeboard
- No evidence of new erosion
- E) Odor Control
  - No offsite odors
  - Minor gas odor on Access road only
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site; on and off site well managed
    - low winds are expected all week
- H) Vehicle Impacts
  - US 45 turn lanes gritty with debris
  - Site roads rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators
  - Receiving MSW, C&D, and ADC wastes
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - · E-Waste Container present and empty
  - Boxes mostly empty and site clean
- L) Other Comments
  - Budgetary changes now have new paving to be done by future owner
  - No new odors since June 23, 2020
  - Temp sed basin cleaning ongoing
  - Flow meter for leachate lift station is faulty, 30 gpm off

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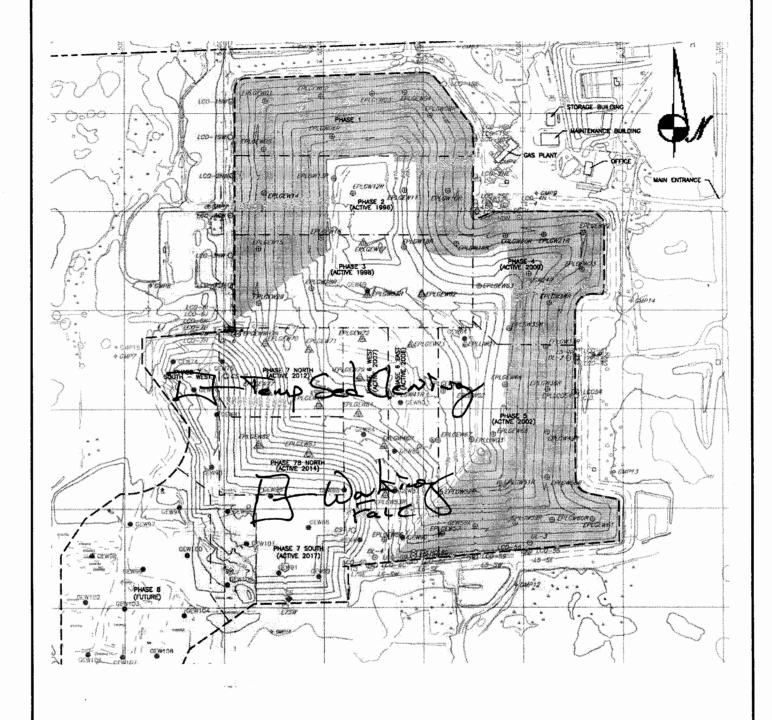
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	Discharge to MMSD 📈 Recirculation
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	Blowers in Operation: YES 🗹 NO 🗌   #   [6]
	Flare use since last audit #
	Shutdowns Since Last Audit: # 4 and Outlie 7/7/2020
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	comments:
	MMSD Taking partial certification
	Outage to 4 Mours.
	Surface Water Management: Storm Events Since Last # Z Est. Volume ~/.5*
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	water/waste contact locations:
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	S. H. J. S. C. J. J.
	Tasins with planty of tree-board
	Erosim Mising
	Odor Control:
	Odors Present: Onsite 🗹 Offsite .
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G.	Litter Control:
	Litter Present Onsite: YES NO
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	Pickers Active: YES VNO   # 2
	Comments:
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н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
	Let & TURN LANCE OF THE CON & Some
	debris Ste roads rough
	debris Ste roads rough
١.	Inspection of incoming Waste:
	Scale Camera Operator: YES 70 # 1
	Equipment Operator: YES YNO   #   3
	Spotter: YES NO V 1#
	Random Load Inspection Dates: 7/3/2026 Form
	Tonnage: 1,800 PD
	Comments:
	MEW, ALX, CFID,
J.	Rejected Loads:  Date/Time Reason for Rejection
	1. 2.
	2.
K.	Residential Drop Off: Open During Audit
	Toxes mostly empty, E-haste empty, sitecken
1	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:
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JSA Principal Signature: Date:
Landfill Operations Audit Form Page 4 of 5

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### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Site slopes wet, but not eroded





Water pooled about active area



Water pooled about active area



Water pooled about active area



Basin #1 receiving very little water from Phases 1 thru 3 and not from Temp Sed Basin



North "bay" of Temp Sed Basin



Temp sed basin laid out, prepped for leachate removal and dredging

#### JSA Civil Environmental Engineers



Temp sed basin, cleaning and dredging continue.

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 07/22/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of July 12, 2020. The audit was performed at 1:38 PM on **July 14, 2020** by Jo Spear, Jr.; in the presence of Daniel Otzelberger; the General Manager.

The last audit was performed on July 9, 2020

The weather conditions were sunny with possible rain; winds out of the South

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers

- A) Working Face and Location
  - Working face on East side of Phase 7 North starting a new lift from access road East
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - C&D, Paperboard, and other ADC wastes
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin appeared to be pumped down by more than half
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1000 cfm, to MMSD
  - Gas wells still being purged of water
- D) Surface Water Management
  - Heavy rains at the end of last week, basins draining well, plenty of freeboard
- E) Odor Control
  - No offsite odors, favorable wind during audit



- Onsite odors at access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter minimal
- H) Vehicle Impacts
  - Union Church Road and US45 clean; including turn lanes
  - Site roads rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, and special wastes ~1,700 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and over flowing
  - Site clean
- L) Other Comments
  - Tree removed from Basin #2 control structure
  - Temp sed basin pumping to PTW on going
  - Surface scan to be conducted for 10 day recheck
  - Site prepared for surface scan on four last failure locations

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			CITY OF MUS	KEGO			
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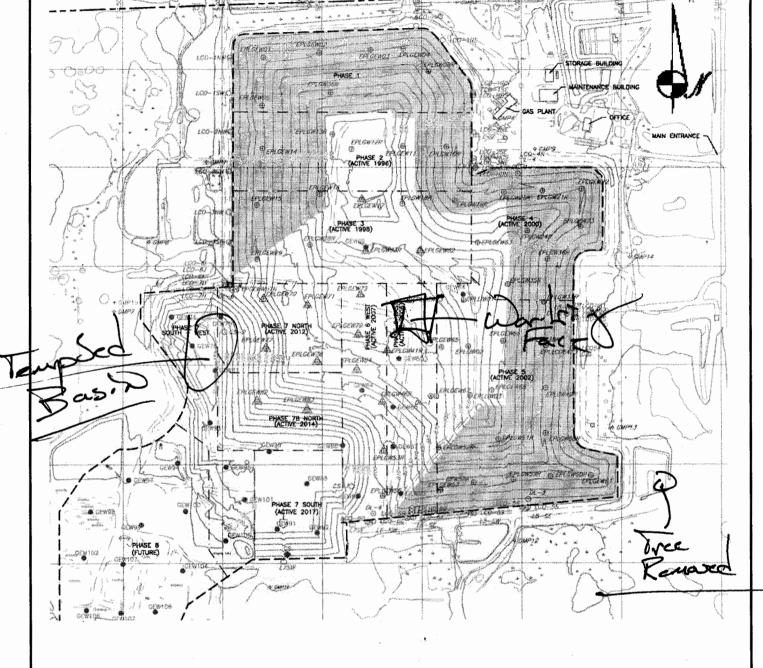
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	Comments:
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D.	Surface Water Management: Storm Events Since Last # Z Est. Volume 22
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm
	water waste contact locations:
	Hewell rains at end of Just week
	GASINS Made Denty of free board
E.	Odor Control:
	Odors Present: Onsite Offsite
	Comments:
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F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES NO .
	Litter Present Offsite: YES DOM
	Pickers Active: YES NO # 2.
	Comments:
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Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads
	US45 & BMile (len including trains longer
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES NO #
	Equipment Operator: YES V NO  # 3
	Spotter: YES NO Y #
	Random Load Inspection Dates: 7/18/PU Form
	Tonnage:
	Comments:
	Wile.
	many company special
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1. 2020
	2.
Κ.	Residential Drop Off: Open During Audit Waste Container Present
	E-waste over lasing; site clear
	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
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Landfill Operations Audit Form	Page 4 of 5

# Advanced Disposal Emerald Park Landfill Audit Map



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Toe of South slope of Phase 7 South





West edge of South slope of Phase 7 South



South slope of Phase 7 South



South slope of Phase 7 South, well being backfilled after placement of bentonite



Top of slope, Phase 7, some stockpiling placed for cover



West slope, at top, of Phase 7



Phase 7 viewed to the East



Access across active area viewing South



Phase 7 view to the South



New lift moving West across Phase 7



Tanker truck receiving filtered water from temp sed basin



View across temp sed basin, East to West



West slope of Phase 7 viewed from the South



North end of Phase 7 viewed from West, East slopes in good repair



South end of Phase 7 viewed from the West



West slope of Phase 7, tanker truck leaving with a load from temp sed basin



West slope of Phase 7, no evident seeps



West slope above temp sed basin, excavator making repairs and access improvements



North slope out of temp sed basin, contaminated runoff pumped through filter tailer into tankers



Temp sed basin broken into bays to aid in cleanup and restoration after leachate contamination

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 07/24/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of July 19, 2020. The audit was performed at 11:58 PM on **July 23, 2020** by Jo Spear, Jr.; in the presence of Daniel Otzelberger; the General Manager.

The last audit was performed on July 14, 2020

The weather conditions were sunny with clouds, at times overcast, and possible rain. Mild winds out of the Northeast

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, one bulldozer, one excavator, and one haul truck.

Contractors were operating one excavator

- A) Working Face and Location
  - Working face on East edge of Phase 7, moving Eastward toward Phase 6, bring lift to even grade across Phases 6 & 7
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Previously tipped soils from Phase 3 being used as cover
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin appeared to be pumped down by more than half
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1400 cfm, to MMSD
  - Gas wells still being purged of water, progress being made
- D) Surface Water Management



Action Items List / Landfill Operations Audit Form Audit Photos



- Two events since last audit. Basins draining with available freeboard
- E) Odor Control
  - Gas odor on Union Church at high tension crossing
  - Onsite odors at access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter minimal
- H) Vehicle Impacts
  - Union Church Road and US45 clean; including turn lanes
  - Site roads dusty and entrance very rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, and special wastes ~1,600 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and over flowing
  - Site clean, boxes mostly empty
- L) Other Comments
  - Basin cleaning of temp sed basin ongoing. South half deemed "clean". North half being solidified with the addition of lye
  - Inbound scale concrete poured today, estimated usable date in three weeks or less.

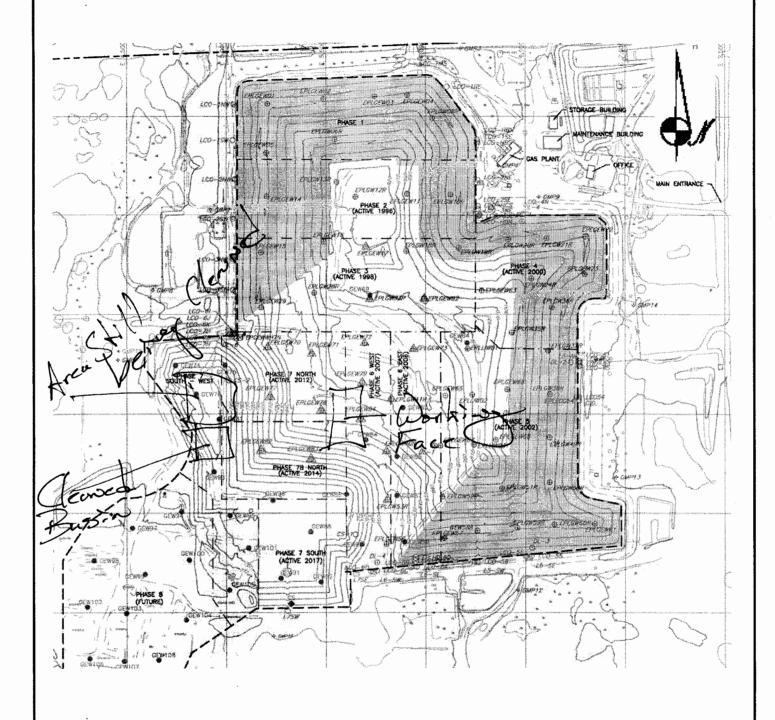
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C. Gas Monito	oring and Management. Check appropriate box.
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	Landfill Operations Audit Form Page 2 of 5

Litter Control:
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Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
taken, instances of trucks on County roads.
US 48 & Church Road
Site roads dusty, entrance rough
Inspection of incoming Waste:
Scale Camera Operator: YES VID # 1
Equipment Operator: YES V NO  # 3
Spotter: YES NO #
Random Load Inspection Dates:
Tonnage: 1,600
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MSW. CID aux Specia Waster
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Rejected Loads:
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Residential Drop Off: Open During Audit
Site clear, boxes mostly emptis it waste ox
Landfill Operations Audit Form Page 3 of 5

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#### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Slope repair on North slope of Phase 4, upper middle of Photo





Phases 4 and 3, soil being excavated from on top of Phase 3 for cover



South slope of Phase 7 South



Vault at toe of Phase 7 South slope



Access road headed North, potential area of odor release and where the most odors are encountered



Phase 7 viewed from the North



View across Phase 7



West slope of Phase 3



Basin 1



North end of temp sed basin, still being pumped/treated



South end of temp basin, certified clean



View across temp sed basin, South to North



Temp Sed Basin receiving Lye to solidify basin for cleaning



North end of Phase 7 viewed from West, East slopes in good repair



South end of Phase 7 viewed from the West



West slope of Phase 7, tanker truck leaving with a load from temp sed basin



West slope of Phase 7, no evident seeps



West slope above temp sed basin, excavator making repairs and access improvements



North slope out of temp sed basin, contaminated runoff pumped through filter tailer into tankers



Temp sed basin broken into bays to aid in cleanup and restoration after leachate contamination

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



#### ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 07/29/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of July 26, 2020. The audit was performed at 3:38 PM on **July 28, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on July 23, 2020

The weather conditions were dry and sunny with strong winds

Site manager did not have a vehicle available for the audit. Audit was performed as a table discussion regarding the operation of the landfill. No pictures were taken.

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, two bulldozers, one excavator, and one haul truck.

Contractors were operating one dozer

- A) Working Face and Location
  - Working face on top of Phase 7 South, inbound from Phase limits
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Previously tipped soils in Phase 3 being used as cover
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin Northern half being solidified by contractor using lye
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1,100 cfm, to MMSD
  - Minor shutdown on 7/27/20 for less than 4 hours due to blower maintenance
- D) Surface Water Management

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- One small event since last audit
- Site basins have plenty of freeboard, Basin #1 receiving pumped water from temp sed basin under controlled conditions
- Site very dry during audit
- E) Odor Control
  - No offsite odors detected during audit
  - No site access, so no detection of on site odors
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site, performing site maintenance during audit
  - Litter minimal
- H) Vehicle Impacts
  - Union Church Road and US45 clean; iturn lanes have debris
  - Site roads clean, entrance rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, and low volume special wastes ~1,600 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and over flowing
  - Site clean, boxes half full
- L) Other Comments
  - Basin cleaning of temp sed basin ongoing. South half deemed "clean". North half being solidified with the addition of lye and water being pumped into Basin #1. Pumping can be done until water depth is 1' and then testing required before additional pumping.
  - Wells still being drained. Thirty five wells have pumps and are inspected weekly. A team works weekly to repair pumps and maintain wells.

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В.	Leachate Management:  Discharge to MMSD Recirculation  Phases:
C.	Gas Monitoring and Management Check appropriate box.  Flares in Operation: YES NO #     Blowers in Operation: YES NO #   Flare use since last audit #   Shutdowns Since Last Audit: # 7/27/2020  Total Number of Wells # A1/ Under vacuum #   Flow to MMSD: # 1,100 cfm   Comments:
D.	Surface Water Management:  Storm Events Since Last # Est. Volume
E.	Odor Control: Odors Present: Comments:  Onsite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Offsite    Omite   Of
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:  Litter Present Onsite: YES NO
	Litter Present Offsite: YES NO V
	Pickers Active: YES NO   # 2
'	Pickers per forming site maintance
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
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١.	Inspection of incoming Waste:
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J.	Rejected Loads:
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K.	Residential Drop Off: Open During Audit   E-Waste Container Present
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	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
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Landfill Operations Audit Form	Page 4 of 5

# **Advanced Disposal Emerald Park Landfill Audit Map** Landfill Operations Audit Form Page 5 of 5

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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





#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 08/12/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of August 2, 2020. The audit was performed at 12:20 PM on **August 6, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on July 28, 2020

The weather conditions were clear, sunny, with minor cloud cover

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers.

Contractors were operating one excavator

- A) Working Face and Location
  - Working face on top of Phase 7 South at Southern end
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin Northern half being solidified by contractor using lye
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1,500 cfm, to MMSD
  - MMSD controlling flow rates
- D) Surface Water Management
  - One small event since last audit



- Site basins have plenty of freeboard, Basin #1 receiving pumped water from temp sed basin under controlled conditions
- Erosion Minimal
- E) Odor Control
  - No offsite odors detected during audit
  - Gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - · Two pickers active on site, picking on West side of footprint during audit
  - Litter minimal
- H) Vehicle Impacts
  - Union Church Road and US45 clean; but very dusty
  - Site roads dusty and entrance getting rougher
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, cover soils, and other ADC ~1,600 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site clean, boxes half full
- L) Other Comments
  - Temp sed basin cleaning. Solidification with quick lye at North half of basin. Excavation by Oaks
  - Site management is evaluating redrilling of wells, will provide operational dates when prepared.
  - Autofluff is available again as ADC and the site is receiving it.
  - Tanker trucks removing surface water only

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	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

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	Pickers Active: YES NO # 2
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	Scale Camera Operator: YES NO #
	Equipment Operator: YES NO # 3
l	Spotter: YES NO #
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J.	Rejected Loads:
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K.	Residential Drop Off: Open During Audit
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	Landfill Operations Audit Form Page 3 of 5
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Management Signature:	Date: 8-6-20
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Management Title:	
JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5
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## Landfill Operations, Audit Form Page 5 of 5 Advanced Disposal Emerald Park Landfill Audit Map

## ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Temp sed basin and West slope of Phase 7





West, outboard slope, of Phase 7 South



South slope of Phase 7 South



Temp sed basin being solidified and material removed



Working face in Phase 7 North/South boundary



Phase 7 viewed from the North



Overview of Temp Sed basin cleanup

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 08/27/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of August 9, 2020. The audit was performed at 1:50 PM on **August 13, 2020** by Jo Spear, Jr.; in the presence of Daniel Otzelberger; the General Manager.

The last audit was performed on August 6, 2020

The weather conditions were clear, sunny, and very dry

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, two bulldozers, and one haul truck

Contractors were operating one excavator

- A) Working Face and Location
  - Working face ant South end of Phase 7 South. Active area being used for travelway
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Only the Northern tip of the temp sed basin still being cleaned
- C) Gas Monitoring and Management
  - Gas volume 2,550 cfm, partial delivery, 1,450 cfm, to MMSD
  - MMSD controlling flow rates
- D) Surface Water Management
  - No events since last audit



Action Items List / Landfill Operations Audit Form Audit Photos



- Site basins have plenty of freeboard, Basin #1 receiving pumped water from temp sed basin under controlled conditions
- Erosion Minimal
- E) Odor Control
  - · No offsite odors detected during audit
  - Gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - · Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site, picking on East slope of Phase 5
- H) Vehicle Impacts
  - Union Church Road and US45 clean; but very dusty
  - Site roads dusty
  - Entrance dusty and very rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, and special wastes ~1,700 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site clean, boxes half full
- L) Other Comments
  - Temp sed basin cleaning. Excavation of contaminated silt nearly complete
    - Basin silt being stockpiled in Phase 3 for future cover
  - Site management is evaluating redrilling of wells, will provide operational dates when prepared.

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	Excavator						
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	Water Truck						
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*	Cover Material:
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management Check appropriate box.  Flares in Operation: YES NO H   H   Blowers in Operation: YES NO H   H   Flare use since last audit #   H   Shutdowns Since Last Audit: #   Total Number of Wells # All Under vacuum # All Flow to MMSD: # 1,450 cfm    Comments: Comments: MMSD expected wext week   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Comments   Com
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:  Temp Sed Dasim
E.	Odor Control: Odors Present: Comments:  No of a te party on 8. te only a tacses road  Mill point
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:  Litter Present Onsite: YES NO L  Litter Present Offsite: YES NO L  Pickers Active: YES NO L  Comments:
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.  US 48 9 US 20 dusty, Entrance dusty & rough
1.	Inspection of incoming Waste:  Scale Camera Operator: YES NO # 3 Equipment Operator: YES NO # 1 Spotter: YES NO # 5 Random Load Inspection Dates: Tonnage: 1, 700 77  Comments:
J.	Rejected Loads:  Date/Time Reason for Rejection  1. 2.
K.	Residential Drop Off: Open During Audit
	Landfill Operations Audit Form Page 3 of 5

Other Comments:  Leap Sed Borin cleming walks  Complete.  Redr. ling wells still in plan  change expected and of Serter  Those Some further can  in Those Some further can	nbar nbar ncc
Auditor's Printed Name:  Management Signature:  Management Printed Name:  Management Title:  Management Title:	Date: <u>8/13/20</u> Date: <u>9/3/20</u>

## **Advanced Disposal Emerald Park Landfill Audit Map** Landfill Operations Audit Form Page 5 of 5

## ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



New inbound scale operational





Residential drop off area clean and boxes mostly empty



Residential drop off area clean and boxes mostly empty



Residential drop off area clean and boxes mostly empty



Phase 4 North slope



Travel over Phase 4 has started erosion locations



South slope of Phase 7 South, at junction with Phase 6



South slope of Phase 7 South



Work in leachate cleanout and system



West slope above access road



Phase 7 viewed from the North



Phase 7 viewed from the North



Working face in Southeast corner of Phase 7 South, against Phase 6



Phase 7 viewed from the North



Lost portion of Temp Sed Basin being cleaned of sil, contaiminated by leachate

#### JSA Civil Environmental Engineers



Overview of Temp Sed Basin, mosty cleared and cleaned

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 08/27/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of August 16, 2020. The audit was performed at 1:08 PM on **August 18, 2020** by Jo Spear, Jr.; in the presence of Daniel Otzelberger; the General Manager.

The last audit was performed on August 13, 2020

The weather conditions were clear, sunny, with minor cloud cover

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers.

- A) Working Face and Location
  - Working face in Southeast corner of Phase 7 South against Phase 6
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff and wood seconds
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1,500 cfm, to MMSD
  - MMSD controlling flow rates
  - 30 out of 34 wells with pumps actively pumping
  - Pump lowered in well on West slope of Phase 7 South last week, odor intensity changed today
- D) Surface Water Management
  - Hit and miss showers over the last week



- Site basins have plenty of freeboard, Basin #1 receiving pumped water from temp sed basin under controlled conditions
- Erosion Minimal
- E) Odor Control
  - No offsite odors detected during audit
  - Very faint gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site, picking on South slope of Phase 7 and access road during audit
  - Litter minimal
- H) Vehicle Impacts
  - US 45 being prepared for construction repairs in front of Emerald Park
  - US 45 and Union Church clean
  - Site roads dusty and entrance getting rougher
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, C&D, and other ADC ~1,600 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site clean, two boxes overflowing
- L) Other Comments
  - There have been morning odor complaints daily since last audit
  - Construction entrance open for contractor's access
  - Temp Sed Basin cleaning nearly complete, contractor recontouring basin
  - Possible seep in rain flap and leachate released into Temp Sed Basin
  - US 45 repairs should be completed in one week.
  - Lowering of pumps in gas wells appears to take a full week before a noticable change in odors

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Landfill Operations Audit Form

Page 1 of 5

Cover Material: R 1 c h
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B. Leachate Management:
Discharge to MMSD    Recirculation
Phases:
C. Gas Monitoring and Management: Check appropriate box.
Flares in Operation: YES MO #
Blowers in Operation: YES V NO  #
Flare use since last audit #
Shutdowns Since Last Audit: #
Total Number of Wells # Under vacuum #
Flow to MMSD: # cfm
Comments:
30 out of 34 well pumps Don 5, my repairs ongoin
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D. Surface Water Management: Storm Events Since Last #1 Est. Volume ~ 1"
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and dry wa
E. Odor Control:
Odors Present: Onsite Offsite
Comments:
Very fair odor about
F. Liquid Loads Received:/
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Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES VNO V
	Litter Present Offsite: YES NO V
	Pickers Active: YES ✓ NO ☐ # 2
	Comments:
	tickers active and South Slope
	and access sond Litter winding
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads
	11545, construction about to Degis
	Site roads duoting & drig
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES NO #
	Equipment Operator: YES V NO  #
	Spotter: YES NO V , # 1
	Random Load Inspection Dates: 8/18/2020 Form
	Tonnage: 1,600 TPD
	Comments:
	MOW, ADe materials, CAD, No 3015
J.	Rejected Loads:
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	Landfill Operations Audit Form Page 3 of 5

Other Comments:
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Auditorio Signaturo
Auditor's Signature: Date: 08/18
Auditor's Printed Name: 10-Walter Spear Ir
Management Signature: Date: 8//8/c
Management Printed Name: Sanid Otzebeger
Management Title: UGM.
JSA Principal Signature: Date:
•

# **Advanced Disposal Emerald Park Landfill Audit Map** Landfill Operations Audit Form Page 5 of 5

# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



South slope Phase 7 South





New connection between wells in Phase 7



Active area viewed from North



Working face in South end of Phase 7 South



Junction of Phase 7 and 3 West slope



Temp sed basin viewed from Phase 7, not seep in sed basin in the South portion



West slope of Phase 7 South



Temp Sed Basin viewed from South



Temp Sed Basin viewed from North

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 09/01/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of August 23, 2020. The audit was performed at 12:25 PM on **August 25, 2020** by Jo Spear, Jr.; in the presence of Daniel Otzelberger; the General Manager.

The last audit was performed on August 18, 2020

The weather conditions were clear, sunny, with rain before and possibly after audit

#### **Landfill Operations Audit:**

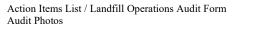
The following conditions were noted during this Audit of the ADS EPLI Facility:

The operation required the use of one compactor and two bulldozers.

Contractors were operating one excavator and two haul trucks

- A) Working Face and Location
  - Working face in Southwest corner of Phase 7 South, on outboard slope
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff
  - No other working faces
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin bottom being scrapped again for contaminates from seep in rain flap
- C) Gas Monitoring and Management
  - Gas volume 2,500 cfm, partial delivery, 1,100 cfm, to MMSD
  - MMSD controlling flow rates
  - MMSD has been pushing back a scheduled shutdown
- D) Surface Water Management







- Heavy storm over previous night and into the am
- Basins have freeboard
- Erosion minimal, but increasing on South slopes
- E) Odor Control
  - No offsite odors detected during audit
  - Gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - · Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter minimal
- H) Vehicle Impacts
  - US 45 has heavy tracking from both landfill entrances
  - Site roads rough, entrance especially so
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW, large soil project, and other ADC ~1,700 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site clean, boxes half full
- L) Other Comments
  - Contractor repairing entrance with crushed stone
  - Temp sed basin has definite seep, noticed on 8/18/2020. Contractor exposing seep and removing contaminated soils to Phase 3.
    - Haul truck creating erosion on West slope of Phase 3
  - Slope grading maintenance on West Slope of Phase 7 South

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Landfill Operations Audit Form

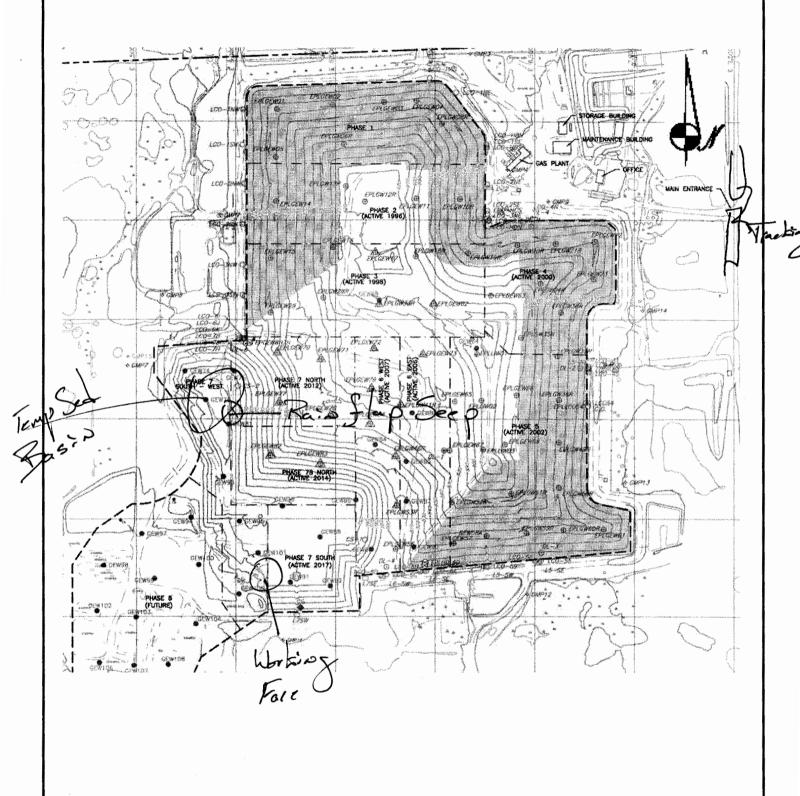
Page 1 of 5

	Cover Material:  ADC, oute fluff and Dood
В.	Leachate Management:  Discharge to MMSD Recirculation  Phases:
C.	Gas Monitoring and Management. Check appropriate box.  Flares in Operation: YES NO #      Blowers in Operation: YES NO #    Flare use since last audit #  Shutdowns Since Last Audit: #  Total Number of Wells # Under vacuum #  Flow to MMSD: # 1,000 flare cfm  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Comments:  Commen
D.	Surface Water Management:  Storm Events Since Last # / Est. Volume 2/4  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations;  Heady Storms ast with the thirty waste contact locations;  Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/4  Exception Amagement:  Storm Events Since Last # / Est. Volume 2/
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F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES NO
	Litter Present Offsite: YES LINO LI
	Pickers Active: YES NO   # 2
	Comments: / /
	Site litter minima
Н.	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 how tracking at both land ! lentrances
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l.	Inspection of incoming Waste:
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	Equipment Operator: YES NO # 3
	Spotter: YES NO Z #
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İ	Comments:
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J.	Rejected Loads:
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	1. /
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K.	Residential Drop Off: Open During Audit
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	Landfill Operations Audit Form Page 3 of 5

Other Comments:	
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Auditor's Printed Name: // Jo-Walter Speat, Jr	11-12/
Management Signature: Wall Office for Management Printed Name: Daniel Office for Management Printed Name:	Date: 8/25/20
Management Title: / G Mr.  JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5

#### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



South slope of Phase 7 South, erosion developing





West, outboard slope, of Phase 7 South



Southwest corner, South side of Phase 7 South. Heavy rutting by travel of gas techs



Temp sed basin being solidified and material removed



Look up West slope of Phase 7 South



View across Phase 6



West slope of Phase 7 South, some regrading done uphill, left, in photo



Phase 7 viewed from the North



View of Phase 7 South and North



Final cleanup of Temp Sed Basin after release and seep



Dozer regrading "clean" area of temp sed basin



Edge of uncovered waste viewed from the West, in Phase 7 South



Excavator clearing rain flap to access seep

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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





#### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 09/04/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of August 30, 2020. The audit was performed at 10:45 AM on **September 2, 2020** by Jo Spear, Jr.; in the presence of Scott Croft; the Gas Plant Manager.

The last audit was performed on August 25, 2020

The weather conditions were sunny, very clear, and drying

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers.

Contractors were operating three excavators and two haul trucks

- A) Working Face and Location
  - Working face in Southwest corner of Phase 7 South, on outboard slope, start of new lift to move Northward across Phase 7
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff
  - Soils excavated from Temp Sed Basin being stockpiled for future cover in Phase 3. This is contaminated soil from a seep in the temp sed basin
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin bottom being scrapped again for contaminates from seep in rain flap
- C) Gas Monitoring and Management
  - Gas volume 2,600 cfm being destructed by flare, no delivery to MMSD today
  - MMSD controlling flow rates



Action Items List / Landfill Operations Audit Form Audit Photos



- MMSD has been pushing back a scheduled shutdown, and continue to do so
- D) Surface Water Management
  - Small rain events since last audit
  - Basins have freeboard
  - Erosion minimal, but increasing on South slopes
- E) Odor Control
  - Autofluff odor on US 45 East of Phase 7
  - Gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter in left turn lane of entrance, but no where else off site
- H) Vehicle Impacts
  - US 45 dry and dusty, Union Church clean
  - Entrance recently patched with crushed stone
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil project, C&D, and other ADC ~1,900 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed and clean
- L) Other Comments
  - Dusty conditions on US45 from both sites. Street sweeper scheduling may be necessary
  - Seven wells have been identified for redrilling to begin at the end of the month. A new
    horizontal well is scheduled for place on the East side of the access road on the West slope of
    Phase 7: strong odors are usually encountered there
  - New outfall construction for Basin #1 ongoing
  - Temp sed basin cleaning and repair of the rain flap seep ongoing. Final repair requires the activities of a liner crew for liner repairs.

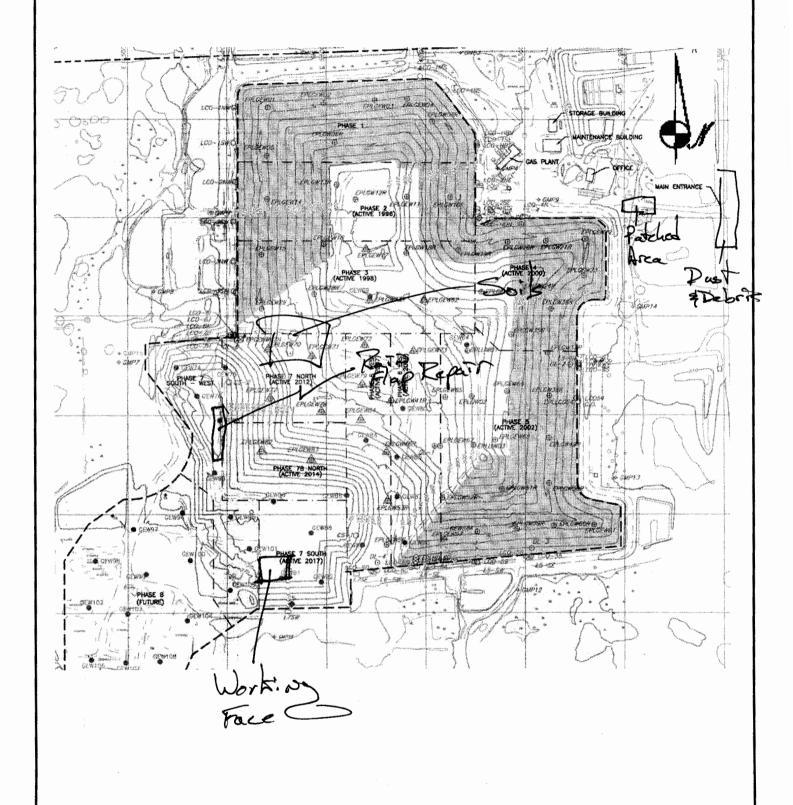
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C. (F. 1977)	Phases:  Gas Monitoring and Management: Check appropriate box.  Flares in Operation: YES MO #      Blowers in Operation: YES MO #      Flare use since last audit #  Shutdowns Since Last Audit: #  Flow to MMSD: Flace # 2 600 cfm  Comments:
	Flares in Operation: YES  NO  #
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-	this is not the scheduled shutdown
- - -	Surface Water Management:  Storm Events Since Last # Z Est. Volume 7/4  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Storm Events Since Last # Z Est. Volume 7/4  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Storm Events Since Last # Z Est. Volume 7/4  Effects: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Storm Events Since Last # Z Est. Volume 7/4  Effects: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Effects: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Effects: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Effects: Note Condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Effects: Note Condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:
	Odor Control: Odors Present: Comments: 1 Offsite  Comments: 1 Offsite  Dodor on US45 East of Mase 7
F	Liquid Loads Received:

G.	Litter Control:  Litter Present Onsite: YES NO
	Litter Present Offsite: YES DO V
	Pickers Active: YES NO #  Comments: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Litter is left turn lawe of extrance
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.  1545 dry and dustry Union Church clerk
	Entrance parched with stone
1.	Inspection of incoming Waste:  Scale Camera Operator: YES DNO #  Equipment Operator: YES DNO #  Spotter: YES NO #  Random Load Inspection Dates: Form  Tonnage: Sois Sois Sois Sois Sois Sois Sois Sois
J.	Rejected Loads:
	Date/Time Reason for Rejection
	2. None
K.	Residential Drop Off: Open During Audit
	Landfill Operations Audit Form Page 3 of 5
	Landfill Operations Audit Form

- Other Comments:
* Duety road conditions on USUS from both  6. fee, Street succepting scheduling manbe
Mecessary.
end of the worth
* New outfall construction for
Basin # I ongoing
* Temp Sed Basin cleaning to
repair vais flap seep singoing
Auditor's Signature: Date: 9/2/2020
Auditor's Printed Name: Jo-Walter Spear, Jr  Management Signature: Scott Croft  Management Printed Name: Scott Croft
Management Title: Plant Manager  JSA Principal Signature: Date:
Landfill Operations Audit Form Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Top of Phase 7 South slope, at Phase 6 junction





East edge of Phase 7 South, South slope



South slope of Phase 7 South showing some erosion



South slope of Phase 6 & 7 junction



Damage to slope at Southwest corner of Phase 7 South by repeat travel of bull dozer



View across Phase 6



West slope of Phase 7 South



Phase 7 viewed from the North



Working face activities



Working face, new lift starting at South end of Phase 7 South



Protected wells and working face, well on left to be redrilled



Construction of new outfall for Basin #1



Temp Sed Basin, cleaned and drained



Stockpiling of soils from Temp Sed Basin on Phase 3



Stockpiling of soils from Temp Sed Basin on Phase 3



West slope of Phase 7 South, edge of working face visible



Seep repair to rainflap ongoing, there was a large volume of trapped leachate



North slope of Phase 4, some wear and tear from vehicle traffic

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 09/18/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of September 6, 2020. The audit was performed at 10:25 AM on **September 6, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on September 2, 2020

The weather conditions were overcast, spitting rain, and additional rain expected throughout the day

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor, two bulldozers, and excavator.

Site backhoe in for repairs

Contractors were not operating equipment

- A) Working Face and Location
  - Working face in South end of Phase 7 South, along West top of slope, lift moving Northward
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - ADC being used as cover, including shredded autofluff; soils being used for cover on outboard slope
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
- C) Gas Monitoring and Management
  - Gas volume 500 cfm being destructed by flare, 2,000 cfm delivery to MMSD today
  - MMSD controlling flow rates
  - MMSD has been pushing back a scheduled shutdown, and continue to do so



- D) Surface Water Management
  - Storms have occurred throughout the last week.
  - Basins have freeboard
  - Basin #1 repairs now complete
  - Erosion minimal, no noticeable increase
- E) Odor Control
  - Gas odors on Union Church just West of the South Boundary stockpiles/ screening berms
  - Gas odor on midpoint of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter present in ditches and median of US45
- H) Vehicle Impacts
  - US 45 and Union Church clean accept for debris in the left turn lanes
  - Recently patched potholes in entrance washing out
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil project when dry, and C&D ~1,800 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and overflowing
  - Site operation has been busy, boxes overflow; being emptied throughout the day
- L) Other Comments
  - Gas well being raise in Northwest (corrected from audit) of Phase 7 South. Well is offline during construction and is a likely source of odor
  - Well redrill scheduled for end of month, includes horizontal gas collection trench installation
  - Liner repair on rainflap to occur when liner crew finishes at other sites

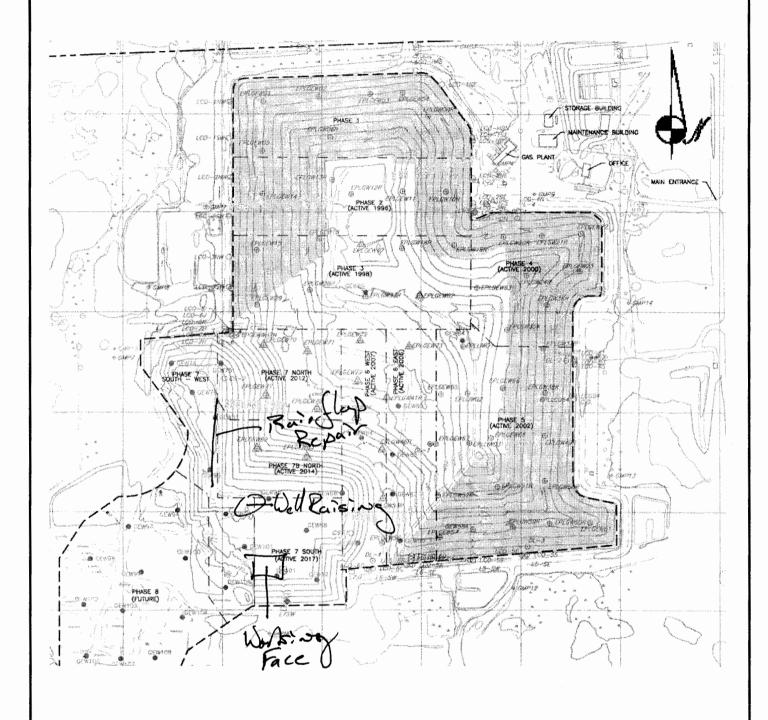
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			CITY OF MUS	KEGO			
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1	Compactor			<u> </u>			
2	Dozer			<u> </u>	, , , , , , , , , , , , , , , , , , , ,		
	Excavator						
	Haul Truck			<b>-</b>			
	Water Truck						
	Grader						
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•						MILWAUKEE, WI	63212-3906
		Lane	dfill Operations	Audit Forr	<u> </u>		Page 1 of 5

	Shaderflux and soils as outboard slope
З.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management. Check appropriate box.  Flares in Operation: YES MO # ( Blowers in Operation: YES MO # ( Flare use since last audit #  Shutdowns Since Last Audit: # None  Total Number of Wells # P Under vacuum # -/  Flow to MMSD: # 2, sootstal cfm  Comments:  Dre Dell of the work of the month  MMSD has planned shutdown for later in the month
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 pocations:  Stovms Trough out the week wat: weeksond.  Dasirds Maic free board Basin #7 repairs  Complete, No was crossion  Odor Control: Odors Present:  Comments:
F.	Liquid Loads Received:

G.	Litter Control:
	Litter Present Onsite: YES NO NO
	Litter Present Offsite: YES VNO
	Pickers Active: YES NO #
	Comments:
	Litter on US 45 ditches ? Median
	artic transfer to the second
Н.	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 & BMila claw except by deloris is turn laws
	Ste entrance ratches beginning to washout
١.	Inspection of incoming Waste:
	Scale Camera Operator: YES WO #
	Equipment Operator: YES NO   #
	Spotter: YES NO 1#
	Random Load Inspection Dates: 9/4/2020 Form
	Tonnage: 1,800 TPD
	Comments:
	MSW =0. Whenders and Call
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1.
	2. / VONC
Κ.	Residential Drop Off: Open During Audit E-Waste Container Present
	Site has been busing boxes & EWaste container
	over flowing Does to be emplied to day
	Landfill Operations Audit Form Page 3 of 5

L. Other Comments:	
* Gas well being raised in North	east corner  sic during construction  worth including  there sites
Auditor's Signature:  Auditor's Printed Name:  Management Signature:  Management Printed Name:  Management Title:  JSA Principal Signature:	Date: 9/10/2020 Date: 9-10-20  Date:
Landfill Operations Au	dit Form Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Residential Drop-off yard and gas plane





West slope of Phase 7 South, recently backdragged



West slope of Phase 7 South, recently backdragged; area around access road where most odors are discovered



West slope of Phase 7 South, recently backdragged



Working face viewed from North



Working face, lift developing on West edge of Phase 7 South



Active area



Basin #1, cleaned and control structure replaced



Temp sed basin viewed from South



Well raising at top of West slope Phase 7



West slope of Phase 7, waste placement right along West edge at top of slope



Temp sed basin viewed from the North, earth berm to separate leak from rainflap and remainder of basin

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 09/18/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of September 13, 2020. The audit was performed at 11:15 AM on **September 15, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on September 10, 2020

The weather conditions were sunny, clear, and drying

#### **Landfill Operations Audit:**

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

The operation required the use of one compactor and two bulldozers.

Contractors were operating three excavators and two haul trucks

- A) Working Face and Location
  - Working face in Southwest corner of Phase 7 South, on outboard slope, end of lift across Phase 7 from North to South.
    - Current lift being developed to protect active area for future lifts to the East
  - No liquid loads being accepted
    - Liquid loads will not be accepted until the site is compliant with its RD&D Permit
  - Soils from site being used for cover on outboard slope
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate will be trucked from the site as well to aid in quickly returning leachate head depths to acceptable levels
      - Leachate head levels restored, some tankering out of Temp Sed Basin ongoing
    - Filter system trailer in place to reduce sediment in leachate pumped from temp sed basin
    - Temp sed basin bottom being scrapped again for contaminates from seep in rain flap
- C) Gas Monitoring and Management
  - Gas volume 700 cfm being destructed by flare, 1,800 cfm delivery to MMSD today
  - MMSD controlling flow rates
  - MMSD has been pushing back a scheduled shutdown, now set for 9/21/2020



- D) Surface Water Management
  - Several rain events throughout August and September
  - Basins have freeboard
  - Erosion repairs ongoing as slopes receive cover
    - Vehicle traffic erosion at junction of Phase 3 and 7, West slope
- E) Odor Control
  - Autofluff and waste odors on US 45
  - No odors on Access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Litter minimal
- H) Vehicle Impacts
  - US 45 and Union Church clean; but dusty
    - Debris in left turn lanes
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil project, and C&D ~1,800 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed and clean
- L) Other Comments
  - All 34 gas wells that require pumps to lower liquid levels have working pumps
  - Temp Sed basin/Phase 7 rainflap repairs ongoing
    - Awaiting availability of liner crew
  - Well redrills and horizontal gas well scheduled for end of September

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2	Dozer						
1	Excavator						
	Haul Truck						
<del></del>	Water Truck		<u> </u>			***	
	Grader		* .				
MAJOR E	QUIPMENT BONEYARD						
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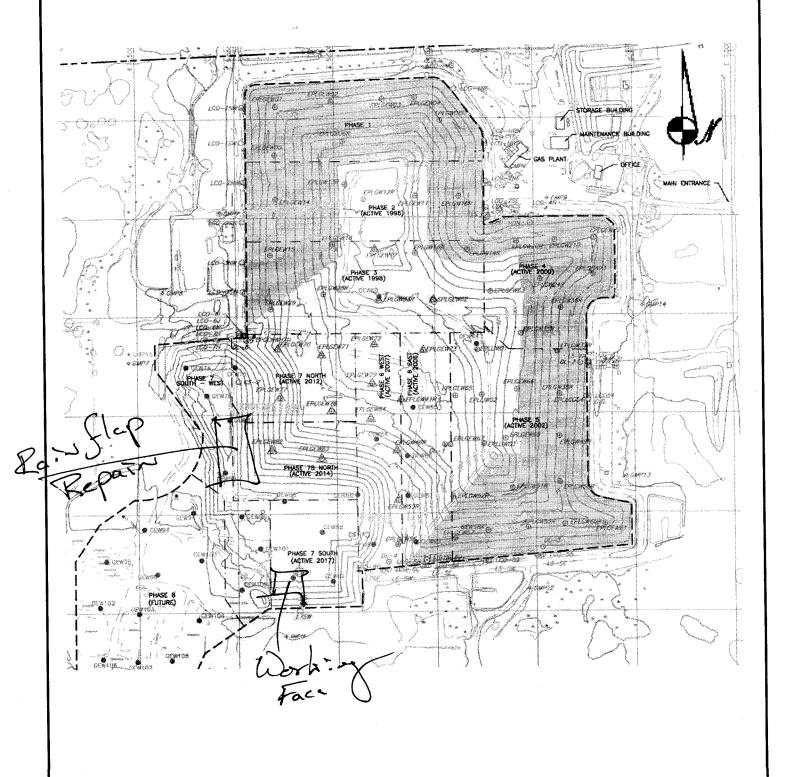
G. Litter Control:
Litter Present Onsite: YES NO
Litter Present Offsite: YES NO Z
Pickers Active: YES NO   # 2
Comments:
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H. Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
taken, instances of trucks on County roads.
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Church elew, but dusty
I. Inspection of incoming Waste: /
Scale Camera Operator: YES NO #
Equipment Operator: YES NO # 3
Spotter: YES NO Y/ # 5
Random Load Inspection Dates: 9/11/2020 Form
Tonnage: 18007FD
Comments:
Man, Cab, soil projects.
J. Rejected Loads:
Date/Time Reason for Rejection
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K. Residential Drop Off: Open During Audit   E-Waste Container Present
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Landfill Operations Audit Form Page 3 c

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Management Signature:	Date: 7 -	//>-
Management Printed Name:  Management Title:	40.5 F	
JSA Principal Signature:	Date:	
•		
Landfill Op	perations Audit Form Page	1 of 5

Landfill Operations Audit Form

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Overview of Emerald Park Landfill from West





Erosion channels on West slope of Phase 3/7, left side of photo



Overview of landfill from West



South end of footprint viewed from West



Working face at South end of Phase 7 South



Southwest corner of Phase 7 South, working face being developed to bring lift up to current grade



Working face at very South end of Phase 7 South, bring grade up to current lift



Stockpiled cover adjacent to working face at Southwest corner of Phase 7 South



Stockpiled cover adjacent to working face at Southwest corner of Phase 7
South



Active area viewed from North, working face below visible grade



Lift along West slope of Phase 7 South, creates protected areas for future placements

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

**FROM:** Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 09/24/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of September 20, 2020. The audit was performed at 2:13 PM on **September 23, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on September 15, 2020

The weather conditions were sunny, clear, and dry

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 2 bulldozers.
- 1 Water Truck

Contractors were operating:

- 1 excavator
- 1 haul truck
- A) Working Face and Location
  - Working face on West side of Phase 7 South, lift moving Northward across Phase
  - Soils from Temp Sed Basin and Sump excavation being tipped on Phase 3, use as future cover
  - Site is using Autofluff, other ADC, and soils being tipped today for cover
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate from drip legs in Phase 6 & 7 being pretreated by filter box prior to tankering
      offsite
    - Leachate from Sump in Phase 7 being pretreated by filter box prior to tankering offsite



- C) Gas Monitoring and Management
  - MMSD controlling flow rates and began to take the full flow today
  - Delivery of 2,500 cfm to MMSD
  - Flare not lit during audit
- D) Surface Water Management
  - No appreciable rain events since last Audit
  - Site dry, some dust
  - Basins have freeboard and are draining, Basin #1 is dry
  - Site erosion minimal
- E) Odor Control
  - Autofluff odors on US 45; no other offsite odors detected
  - No onsite odors detected
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Large debris was noted on road edge near construction entrance
  - Site litter minimal
- H) Vehicle Impacts
  - US 45 and Union Church clean; but dusty
  - Site roads are dusty, water truck was being filled during audit
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil project, ADCs, and C&D ~2,000 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present and overflowing
  - Site closed and being cleaned during audit
- L) Other Comments
  - Gas well redrills and replacement along with other gas improvements is scheduled for September 29, 2020.
  - Rain flap repair awaiting liner crew to arrive on site
  - Site investigating sump conditions at Northwest Sump of Phase 7 South.
    - To investigate the sump is being excavated and leachate is being pumped through filters to tanker. The exposed sump is a source of potential odors

. ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL								
LANDFILL OPERATIONS AUDIT FORM								
CITY OF MUSKEGO								
PROJECT NO. 1020.10030								
DATE September 23, 2020 TIME 2:/3								
DATE September 23, 2020 TIME $f Z$ Auditor on site at: Open $f Close$								
PREVIOUS DATE: September 15, 2020 Completed X								
OCCITION 19, 2020								
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TEMP Maximum 79 °F Minimum 56 °F B.P.	30.06							
MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS								
No. DESCRIPTION Rented Contracted No. DESCRIPTION Ren	ted Contracted							
Compactor								
2 Dozer								
Excavator								
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/ Water Truck								
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	Soils being tipped for future cover
В.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Checkappropriate box.
	Flares in Operation: YES ##
	Blowers in Operation: YES MO NO H
	Flare use since last audit # Upt: / today
	Shutdowns Since Last Audit: #
	Total Number of Wells # 21 Under vacuum # 24 V
	Flow to MMSD: # 7,500 cfm
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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:
	te dry + goods dry
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E.	Odor Control:
	Odors Present: Onsite Offsite
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	- National Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Co
F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES NO
	Litter Present Offsite: YES NO NO NO NO NO NO NO NO NO NO NO NO NO
	Pickers Active: YES NO # 2
	Comments:
	lorge de bris on road side à ditches
	Site life missing
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
	Ces 45 Donates but clear. Chiron Church
	claw, Dite roads dusty
	Q
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES NO # 1
	Equipment Operator: YES VNO U # 3
	Spotter: YES NO W, #
	Random Load Inspection Dates: Form
	Tonnage: 7,000 tpd
	Comments:
	Msa) Soils obreder that and Car
	, 200
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1.
	2.
K.	Residential Drop Off: Open Dufing Audit , , E-Waste Container Present
	Site being cleaned during audit
	and Doxes being emptical E-haste over Howing
	Landfill Operations Audit Form Page 3 of 5

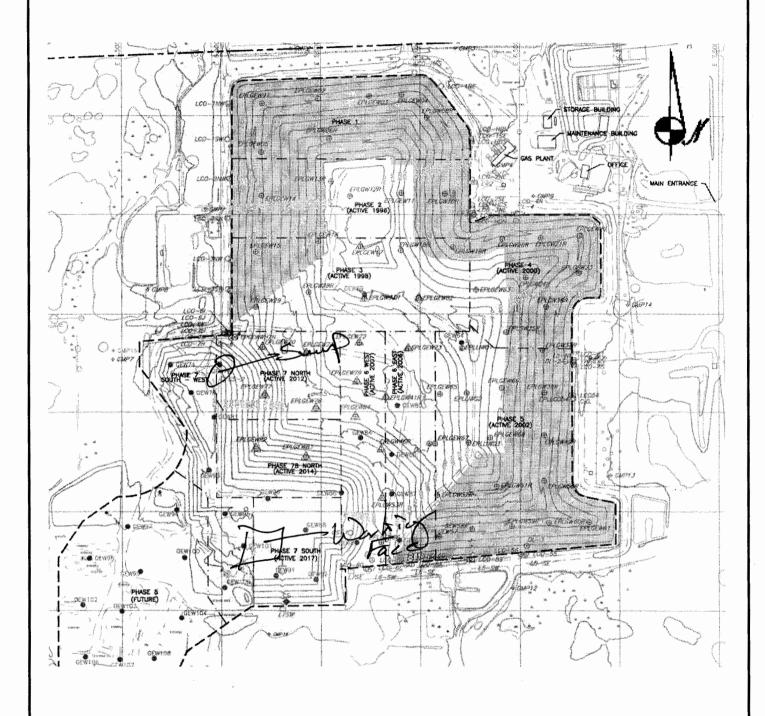
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L. Other Comments:	
* Gas well redrills and replacement 6+0+5 Sept. 29, 2020	
Dorthwast of these Foods  Execulation sound and drawing  to incoding the total source	Alorth
of odors diving Tools, Ducktije	4; on)
Auditor's Signature:  Auditor's Printed Name:  Management Signature:  Management Printed Name:  Management Title:	Date: 9/25/2020
JSA Principal Signature:	Date:

Landfill Operations Audit Form

Page 4 of 5

## **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Phase 3 viewed from the West at a distance, new soils from cleaning up temp sed basin in center of photo, dark soil





Phase 3 & 7 viewed from a distance and the West



Phase 7 viewed from a distance and the West



Working face in distance, viewed from North



Working face in distance, viewed from North



East portion of Phase 7, viewed from North, working face and new lift to the right of picture



Temp sed basin, clean and dry



Temp sed basin, clean and dry



Temp sed basin, clean and dry



View North into Temp Sed Basin



West slope of Phase 7



West slope of Phase 7



Excavation to sump, materials being placed in working face and covered



Sump at Northwest Corner of Phase 7 South, being investigated for issues. Excavation to bottom of cell will be a potential odor source



Exposed rainflap, awaiting liner crew for repairs.

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 10/14/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of September 27, 2020. The audit was performed at 3:05 PM on **September 30, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Operations Manager.

The last audit was performed on September 23, 2020

The weather conditions were clear skies, with high clouds, and dry

#### **Landfill Operations Audit:**

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

The operation required the use of:

1 compactor

2 bulldozers.

Contractors were operating:

1 excavator

1 haul truck

- A) Working Face and Location
  - Working face at South end of Phase 7 South, bringing new lift Northward
  - No other working faces
  - Site is using Autofluff and other ADC
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate from drip legs in Phase 6 & 7 being pretreated by filter box prior to tankering offsite
    - Leachate from Sump in Phase 7 being pretreated by filter box prior to tankering offsite
- C) Gas Monitoring and Management
  - MMSD controlling flow rates
  - Delivery of 1,400 to 1,500 cfm to MMSD
  - Flare destroying 700-800 cfm

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- Shutdowns over weekend, successful auto-restarts
- D) Surface Water Management
  - Storms over weekend and beginning of the week.
  - Basins have plenty of freeboard
  - Minimal new erosion
- E) Odor Control
  - Minor gas odor on US45 near Union Church intersection
  - No onsite odors detected
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Site relocated fences to reduce litter
  - Site litter minimal
- H) Vehicle Impacts
  - US 45 and Union Church clean and turn lanes clean
  - Site roads are dusty, entrance patched with crushed stone
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil project, ADCs, and C&D ~1,800 TPD
- J) Rejected Loads
  - 9/29/2020 Rolloff rejected to tires hidden in load
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed during audit, boxes mostly empty, and site clean
- L) Other Comments
  - Contractor on site drilling new gas wells, with drill rig
  - Rain flap repair awaiting liner crew to arrive on site
  - Contractor restoring sum in Northwest corner of Phase 7 South. Sump being cleaned by hydraulic equipment

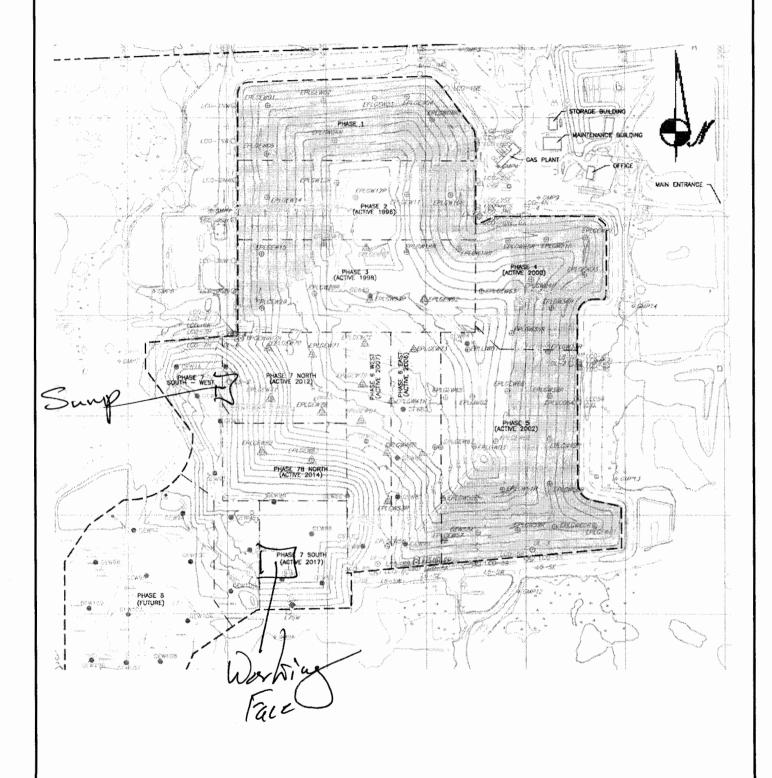
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2	Dozer						
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	Water Truck						
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	Cover Material:
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management Check appropriate box.  Flares in Operation: YES MO  # 1  Blowers in Operation: YES NO  # 1  Flare use since last audit # 7/29/2020  Shutdowns Since Last Audit: # 2-3  Total Number of Wells # All Under vacuum # All  Flow to MMSD: # [400-1] Soo cfm  Comments:  Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surface Surf
D.	Surface Water Management:  Storm Events Since Last # 3 Est. Volume 7/.54  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Storms occ , Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar and Declar
E.	Odors Present:  Comments:  Mixer gas ocor on USHS New Union Church
	None
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:  Litter Present Onsite: YES NO L  Litter Present Offsite: YES NO L  Pickers Active: YES NO L # 7  Comments: Comments: Comments: Comments: Comments of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.  (1545 3 Upino Church Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Cancer Clean, Turn Clean, Turn Clean, Turn Cancer Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Turn Clean, Tur
1.	Inspection of incoming Waste:  Scale Camera Operator: YES V NO H H TEquipment Operator: YES NO H H TEQUIPMENT OPERATOR:  Spotter: YES NO H THE TOTAL OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATOR OPERATO
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	Landfill Operations Audit Form Page 3 of 5

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Landfill Operations Audit Form	Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Rig in center of Phase 7 placing well.





Phase 3 & 7 viewed from a distance and the West



Phase 7 viewed from a distance and the West



Phase 7 South West slope redressed.



Phase 7 South West slope redressed.



Phase 7 South, view from North, lift on West (right) side creating a windbreak



Phase 7 South, view from North, lift on West (right) side creating a windbreak



Active area



Active area



Phase 7 sump exposed by excavation



Temp sed basin, rain flap of Phase 7 exposed for repairs, awaiting scheduling of liner crew

#### JSA Civil Environmental Engineers



Excavation to sump adjacent to temp sed basin

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



October



### **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of October 4, 2020. The audit was performed at 12:40 PM on **October 9, 2020** by Jo Spear, Jr.. Due to Auditor illness, the auditor did not meet with site staff. Instead, Chad Siegle; the Operations Manager; was contacted by phone to discuss site operations.

The last audit was performed on September 30, 2020

The weather conditions were clear skies, with high clouds, sunny, and dry

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 2 bulldozers
- 1 Water Truck
- A) Working Face and Location
  - Working face at South end of Phase 7 South, East and adjacent of previous lift placed along West slop of Phase 7 South, protecting area from winds
  - No other working faces
  - Site is using Autofluff for daily cover
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate from Sump in Phase 7 being pretreated by filter box prior to tankering offsite
- C) Gas Monitoring and Management
  - MMSD controlling flow rates
  - Shutdown on 10/09/2020 due to high oxygen content
  - System repaired and restored by end of day, 10/09/2020
- D) Surface Water Management
  - Basins appear to be well drained



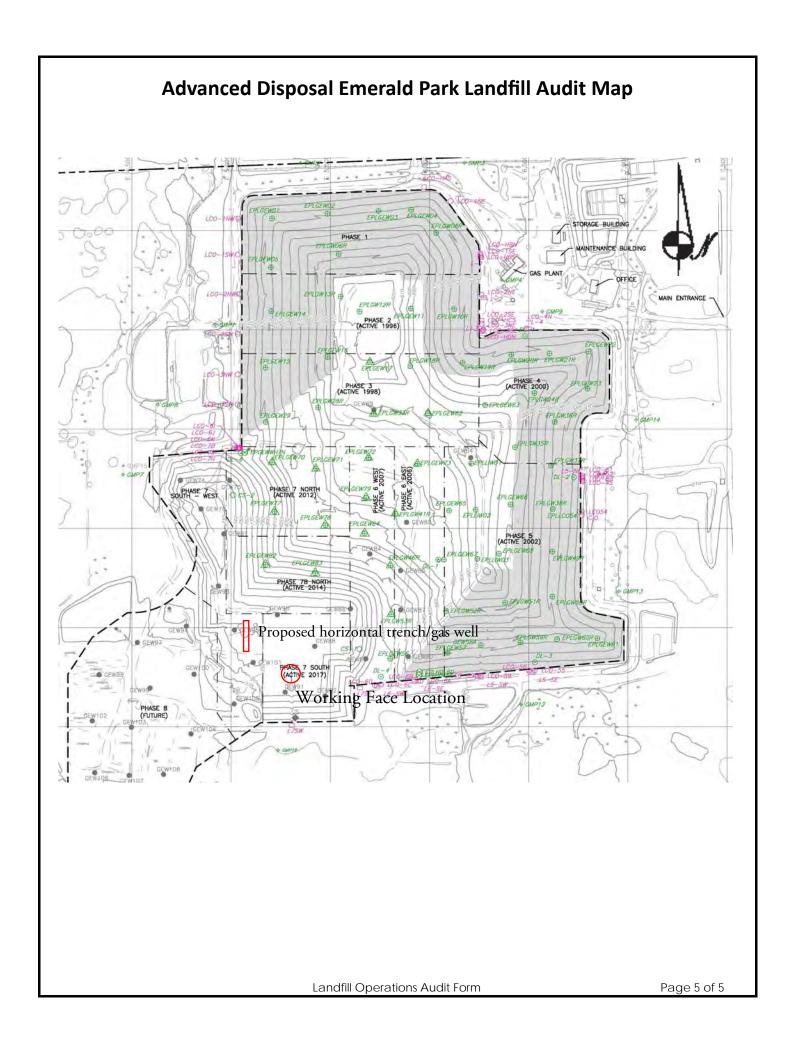
- Litter removed in shallow areas since previous audit
- Site very dry
- E) Odor Control
  - No odors detected on or off site
  - Auditor did not have access to active area or access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - · Advanced is limiting pickers on the site to minimize risk
  - One pickers active on site
  - Site relocated fences prior to high winds to reduce litter
  - Site litter minimal
- H) Vehicle Impacts
  - US 45 and Union Church clean and turn lanes clean
  - Site roads are dusty, entrance patched with crushed stone
  - Water truck active to address dust conditions during audit
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, soil projects, and C&D ~1,800 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site very active during audit
  - Boxes reaching capacity and site clean
- L) Other Comments
  - All vertical wells installed and piped to surface. Connections to system and application of vacuum to occur in following week.
  - Construction of 800 foot horizontal gas collection trench planned for next week
  - Rainflap repair scheduling ongoing

	ADVANC	LANDFILI	OPERATION	IS AUDIT	d Park Landfil Form	.L	
PROJEC	CT NO. 1020.10030		CITY OF MUS	KEGO			
D/	ATE Octo		20		TIMI	=12:4	40 PM
	Auditor on site at:	Open		Close			
PREVIO	US DATE:Sep	tember 3	0, 2020	Comple	eted $\overline{\mathbf{X}}$		
WEATH	^{HER} Clear, Sunny, d	ry - high	clouds		WINE		MPH Dew
TE	MP Maximum	9 °	Minimum	61	<u>°F</u> B.P		29.92
MA IOR	EQUIPMENT USED IN LA	ndeili op	FRATIONS				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor	Kented	Contracted	110.	DESCRIPTION	Rented	Contracted
2	Dozer						
	Excavator						
	Haul Truck						
1	Water Truck		1				
1	Grader						
	Grader						
MAJOR E	QUIPMENT BONEYARD						_
No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
Morking	g Face Size and Locatio	n:					
	,		01 7 C .	<i>i</i> 1		. 1: C 1	1 .1
VV O1	king face at Souther	n end of I	nase / Soi	ith, run	ning adjacent	to lift pla	aced along
Wes	st slope of Phase 7 So	uth, prot	ecting area	from w	inds		
		<del>((()</del>	<u> </u>				
No	other working faces						
							1.00
					_ TO	ENVIRO	ONMENTAL
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-						MILWAUREE, WI	53212-3500
		Lanc	Ifill Operations	Audit Form	١		Page 1 of 5

	Cover Material:
_	Autofluff
_	
_	
	oachata Managament
	eachate Management:  Discharge to MMSD X Recirculation
	<del> </del>
<u> P</u>	Phases:
_	
	Cas Manitaring and Managan mant. Chask an aremintals
	Gas Monitoring and Management: Check appropriate box.
	lares in Operation: YES X NO  # 1
	lowers in Operation: YES X NO  # 1
_	lare use since last audit # Continuous
_	hutdowns Since Last Audit: # 1
_	otal Number of Wells # A11 Under vacuum # A11
	low to MMSD: # NA cfm
С	Comments:
	Shut down on 10/09/2020 due to high oxygen content. System repaired and restored by
	end of day 10/09/2020.
_	
). Si	urface Water Management: Storm Events Since Last $\# \ 0$ Est. Volume $0$
Ε	FFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm
	vater/waste contact locations:
	Basins appear to be well drained, litter removed in shallow areas since last audit
	11
	Site very dry
. C	Odor Control:
C	Odors Present: Onsite Offsite
	Comments:
	No odors detected on or off site
	NO Odors detected on or on site
_	
. Li	iquid Loads Received:
	iquia Eddas Nederved.
	None
_	None
_	
	Landfill Operations Audit Form Page 2 of 5
	randiii Oberaiions Audii Form Pade 7 Of 5

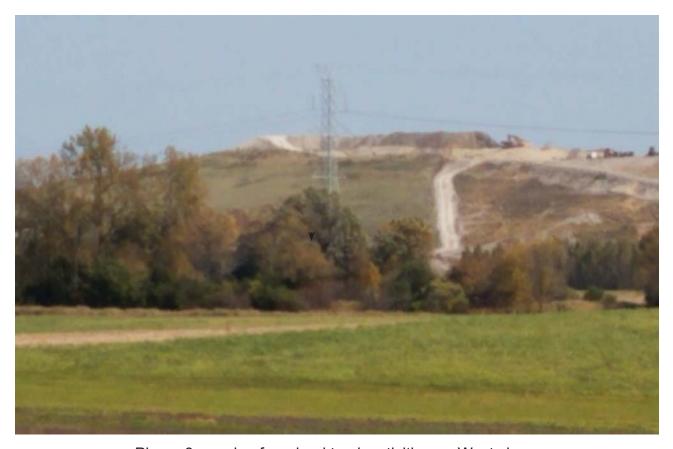
Litter Control:
Litter Present Onsite: YES X NO
Litter Present Offsite: YES NO X
Pickers Active: YES X NO # 1
Comments:
Litter very well controlled in high winds, manager states fences were relocated prior to wind
1.6 1 1. 1. 1.
shift and speed increase. Litter minimal
Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
US 45 and Union Church clean and dry. Site roads dry, but with minimal dust; water
truck active during audit. Entrance rough
truck active during audit. Entrance rough
Inspection of incoming Waste:
Scale Camera Operator:   YES   NO     #   1
Equipment Operator: YES X NO  # 3
Spotter: YES NO $\overline{X}$ #
<del></del>
Tonnage: 1,800 TPD
Comments:
MSW, C&D, and some soil projects
Rejected Loads:
Date/Time Reason for Rejection
1. None
2.
<u></u>
Residential Drop Off: Open During Audit X E-Waste Container Present X
Site very active during audit. Boxes reaching capacity. Site clean
Landfill Operations Audit Form Page 3 of 5

Other Comments:	
* All vertical wells completed and piped to surface. Connections to syste	em and appication of
4 0 44	
* Construction of Horizontal collection trench/well to occur the followi	ng week.
* Rainflap repair scheduling ongoing	
	· · · · · · · · · · · · · · · · · · ·
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Auditor's Signature:	Date: 10/12/2020
	Daic. 10/12/2021
Auditor's Printed Name: Yo-Walter Spear, Jr., P.E.  Management Signature:   Daniel Otgelberger	Date: 10/22/20
Management Printed Name: Daniel Otzeberger	10,12,120
Management Title: GM	
JSA Principal Signature	Date:
30, ( ) ( iii olpai olgi aloro	



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Phase 3, erosion from haul truck activities on West slope





Phase 3 & 7 viewed from a distance and the West, note erosion on "left" of image from haul truck travel



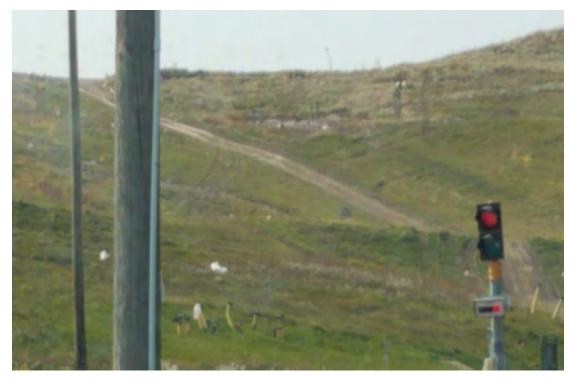
Phase 7 viewed from a distance and the West



East slope of Phase 1, view of bio and direct soils



Erosion in back ground from vehicle travel



Erosion from the travel of vehicles on the slope of Phase 4



Drill rig in Phase 7 placing replacement gas well

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 10/22/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of October 11, 2020. The audit was performed at 12:05 PM on **October 16, 2020** by Jo Spear, Jr.. Due to Auditor illness, the auditor did not meet with site staff. Instead, Chad Siegle; the Operations Manager; was contacted by phone to discuss site operations.

The last audit was performed on October 9, 2020

The weather conditions were clear skies, with high clouds, and dry

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 1 bulldozers.
- A) Working Face and Location
  - Working face at South end of Phase 7 South, bringing new lift Northward
    - Adjacent to previous lift to the West, protecting from winds
  - No other working faces
  - Site is using Autofluff and site soils for daily cover
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Leachate from Sump in Phase 7 being pretreated by filter box prior to tankering offsite
- C) Gas Monitoring and Management
  - Delivery shutdown on 10/12/2020 due to failed valve
    - No delivery possible until valve replaced
- D) Surface Water Management
  - No events since last audit
  - Basins have plenty of freeboard

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



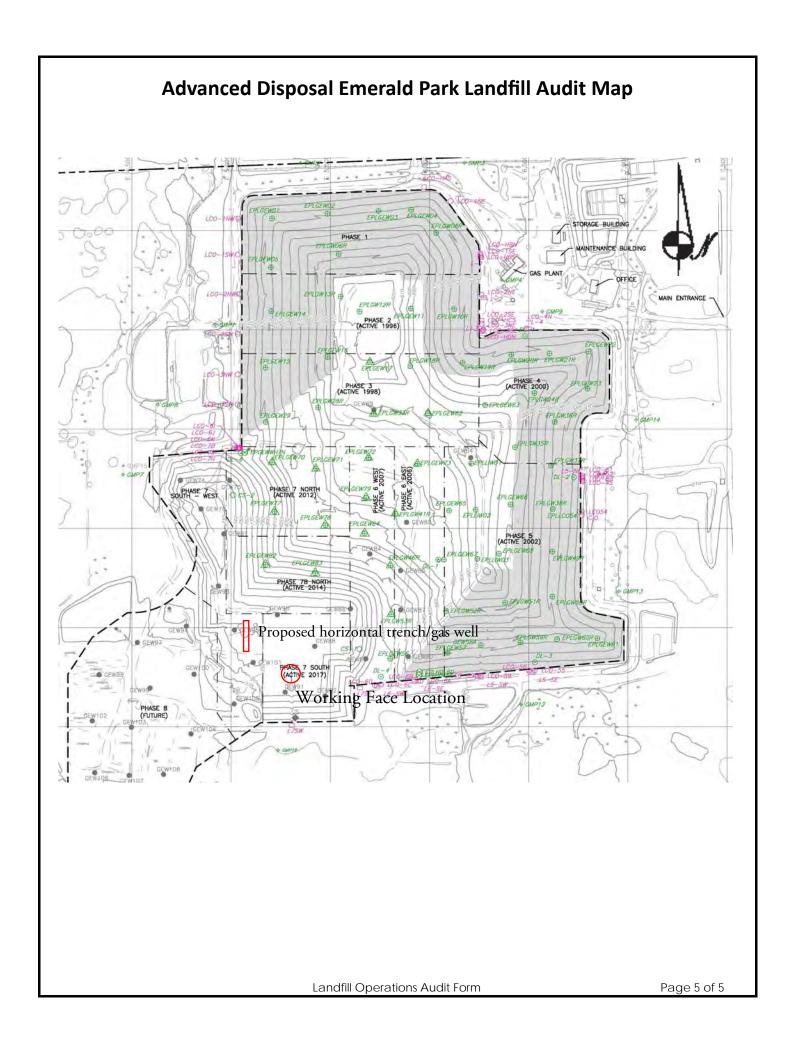
- Minimal new erosion
- E) Odor Control
  - No on or off site odors detected
  - Auditor did not have access to active area or access roads
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - One picker active on site
  - Picker operating Residential Drop Off
  - Site litter minimal
- H) Vehicle Impacts
  - US 45 and Union Church clean; debris in left turn lanes
  - Site roads dry and dusty, entrance rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators
  - Receiving MSW, C&D, and small volume of special wastes ~1,800 TPD
- J) Rejected Loads
  - None
- K) Residential Drop Off
  - E-Waste Container present
  - Site open and very active during audit
  - Boxes reaching capacity and site clean
- L) Other Comments
  - Contractor on site constructing horizontal gas collection trench ~300 of the full 800 feet completed
    - Construction completion and connections expected next week.
  - Liner crew on site to repair rainflap, activities expected today and tomorrow to complete
  - Contractor restoring sump in Northwest corner of Phase 7 South. Sump being backfilled, full depth, with stone

	ADVAN	LANDFILL	OPERATION	is audit f	D PARK LANDFIL FORM	L	
PROJEC	CT NO. 1020.10030		CITY OF MUS	KEGO			
DA	ATE Oc Auditor on site at	<u>ctober 16, 20</u> : Open	020	Close	TIME	12:0	)5 PM
	US DATE:C	October 9, 2 Sunny, dry		Comple	ted 🖾		MPH Dew
TE	MP Maximum	51 °I	Minimum	36_	<u>°F</u> B.P		30.12
MAJOR	EQUIPMENT USED IN	LANDFILL OP	ERATIONS				
No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor						
1	Dozer						
	Excavator						
	Haul Truck						
	Water Truck						
	Grader						
MAJOR E	EQUIPMENT BONEYARD						
No.	DESCRIPTION	Broken	Maintenance	No.	DESCRIPTION	Broken	Maintenance
Morking		tion.					
	g Face Size and Loca		:	7 C	1	. 1:	
VVOI	rking face at South	em to mia j	DOINE OF PI	1ase / 50	ourn, running	adjacem	TO IIII piace
alon	g West slope of Ph	ase 7 South	, protecting	g area fr	om winds		
	other working faces		, <u> </u>				
	other working races						
_							
					TO	ENVIRO	ONMENTAL
					-117	2410 N. PALMER MILWAUKER, WI	STREET 53219-3800
						Januarana, WI	
		Lanc	Ifill Operations .	Audit Form			Page 1 of 5

	Course Mantagial
	Cover Material:
	Autofluff and site soils as needed
3.	Leachate Management:
	Discharge to MMSD X Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES X NO  # 1
	Blowers in Operation: YES $\overline{\mathbf{X}}$ NO $\square$ # 1
	Flare use since last audit # Continuous
	Shutdowns Since Last Audit: # 1
	Total Number of Wells # A11 Under vacuum # A11
	Flow to MMSD: # NA cfm
	Comments:
	Shutdown on 10/12/2020 due to failed valve. Replacement valve not yet received.
	•
	No delivery possible until valve replaced.
_	Comforce Wester Management
).	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:
	water/waste contact locations.
	Basins appear to be well drained. No additional erosion evident, except for vehicle tracks
	Danie appear to be well diamica. To additional crosson evident, except for velicle tracks
	on Phase 4
Ξ.	Odor Control:
	Odors Present: Onsite Offsite
	Comments:
	No odors detected on or off site
	Liquid Loads Received:
	None None
	Landfill Operations Audit Form Page 2 of 5

$\sim$	Littor Control
G.	Litter Control:  Litter Present Onsite: YES X NO T
	Comments:
	Litter Minimal about site.
	Litter picker operating resi-drop-off
	Makiala leena atau uu uu saara uu uu saara uu uu saara uu uu saara uu uu saara uu uu saara uu saara uu saara u
Η.	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 and Union Church clean and dry; debris in left turn lanes.
	Cir. a. 1. 1
	Site roads dry and dusty. Entrance rough
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES X NO  # 1
	Equipment Operator: YES NO # 3
	Spotter: YES NO X #
	Random Load Inspection Dates: 10/15/2020 Form
	Tonnage: 1,800 TPD
	Comments:
	MSW, C&D, and small volume special
J.	Rejected Loads:
	Date/Time Reason for Rejection
	1. None
	2.
Κ.	Residential Drop Off: Open During Audit X E-Waste Container Present X
	Site very active during audit. Boxes reaching capacity. Site clean
	The very active during attent. Twices teaching capacity. Site cican
	Landfill Operations Audit Form Page 3 of 5

Other Comments:	
* Installation of horizontal gas well (trench) half constructed ~300ft. C	Completion and
connections expected next week	-
* Phase 7 South sump restored and backfilled with stone	
* Liner crew onsite repairing rainflap. Crew expected to be active today	and tomorrow.
	- Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indonesia - Indo
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	· · · · · · · · · · · · · · · · · · ·
Auditor's Signature:	Date: <u>10/16/20</u>
Auditor's Printed Name: Jo-Walter Spear, Jr., P.E.	D = 1 - 10/00/00
Management Signature: Daniel Otzelberger  Management Printed Name: Paniel Otzelberger	Date: 10/22/20
Management Title: / GM	•
	Date:
JSA Principal Signature	
JSA Principal Signature	
JSA Principal Signature	



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Phase 3, West slope. Erosion from Haul Truck activies.





Phase 3 & 7 viewed from a distance and the West



Phase 7 viewed from a distance and the West



Stockpiled Soils on top of Phase 3



Erosion in Phase 4

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## **ADS Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 10/22/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of October 18, 2020. The audit was performed at 12:35 PM on **October 21, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Operations Manager.

The last audit was performed on October 16, 2020

The weather conditions were clear skies, with high clouds, and dry

#### **Landfill Operations Audit:**

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

The operation required the use of:

1 compactor

2 bulldozers.

Contractors were operating:

1 excavator

2 haul truck

1 bulldozer

- A) Working Face and Location
  - Working face at South end of Phase 7 South, bringing new lift Northward
  - · Cover being added on previous lift to the West
  - No other working faces
  - Site is using Autofluff and site soil
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - Site finished with the use of filter boxes at drip legs and temp sed basin
- C) Gas Monitoring and Management
  - MMSD controlling flow rates
  - Delivery of 1,300 cfm to MMSD



Action Items List / Landfill Operations Audit Form Audit Photos



- Total destruction volume 2,500 cfm; substantial increase after well placements
- No Shutdowns since last audit, except for connections
- D) Surface Water Management
  - Sprinkling rain since last audit.
  - · Basins have plenty of freeboard
  - Temp sed basin fully restored and regraded
- E) Odor Control
  - No offsite odors detected
    - No complaints received since last audit
  - No onsite odors detected
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Two pickers active on site
  - Site litter minimal
- H) Vehicle Impacts
  - US 45 clean except for turn lanes which have debris
    - Union Church clean
  - Site roads are gritty, entrance patched with crushed stone
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW, sludges, ADCs, and C&D ~1,800 TPD
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed during audit, boxes mostly empty, and site clean
- L) Other Comments
  - Travelway erosion in Phases 4 & 3, Northeast and West slopes respectively
  - Sump restored and will be covered
  - Rainflap restored and slope reconstructed, access road added to West side of Phase 7, toe of slope
  - Gas improvements completed and horizontal collection well being connected to vacuum during audit
  - New lines connected over Phase 5 to restore vacuum on East side of footprint

	ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL  LANDFILL OPERATIONS AUDIT FORM						
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D	ATE Octo	ber 21, 20	)20		TIME	12:3	5 PM
	Auditor on site at:			Close			
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WEATH	HER Quecus + 10	: 41	BUN IV	ers c	WIND		) E W
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No.	DESCRIPTION	Rented	Contracted	No.	DESCRIPTION	Rented	Contracted
1	Compactor	Kerned	Communica	110.	DESCRIPTION	Kerned	Communica
2	Dozer						
	Excavator						
	Haul Truck		17111				
	Water Truck						
	Grader				100		
	EQUIPMENT BONEYARD	To	1, , , , , , , , , , ,	No	DESCRIPTION	Destros	District
No.	DESCRIPTION	Broken	Maintenance	NO.	DESCRIPTION	Broken	Maintenance
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		Land	dfill Operations	Audit Forn	n		Page 1 of 5

	Cover Material:  Sheether flut, site st.
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management: Check appropriate box.  Flares in Operation: YES NO #
D.	Surface Water Management:  Storm Events Since Last # 1 Est. Volume   EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Spc; wkl:wa raid Since last audit  Basins draids Since last audit
E.	Odor Control: Odors Present: Comments: Odors Present: Onsite Offsite
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES NO .
	Litter Present Offsite: YES NO V
	Pickers Active: YES ✓ NO ☐ # 1
	Comments:
	Litter minsional
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
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l.	Inspection of incoming Waste:
	Scale Camera Operator: YES NO # 1
	Equipment Operator: YES VNO # #
	Spotter: YES NO #,
	Random Load Inspection Dates: 10/14/2020 Form
	Tonnage: 1, 200 TPD
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J.	Rejected Loads:
	Date/Time Reason for Rejection
	1.
	2. / VONC
K.	Residential Drop Off: Open During Audit
	Toxes Mostly, empty, site clean
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	Landfill Operations Audit Form Page 3 of 5

Other Comments:	
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Auditor's Printed Name: Jo Walter Spear, Ji  Management Signature:	Date: 10 /21 /2000
Management Printed Name:  Management Title:  JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5

# **Advanced Disposal Emerald Park Landfill Audit Map** Page 5 of 5 Landfill Operations Audit Form

# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Overview of Phase 7, West edge and temp sed basin, viewed from North





Restored and filled sump in Phase 7



Excavation of soils as needed for construction of road and possibly cover



Rainflap repair complete, contractor placing road at base of slope



Run of rainflap repaired and temp sed basin regraded



Sump backfilled with stone, more stone will be placed and then cover placed over



Previous lift along West slope of Phase 7, creates a protected area for current waste placement



Working face in South end of Phase 7, offset from top of West slope



Working face in South end of Phase 7, offset from top of West slope



Phase 7 South, viewed North to South



High point in Phase 3, on top of soils

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## ADS Emerald Park Landfill Audit Summary

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 11/11/2020

**PROJECT NUMBER:** 1012.10030

Due to the COVID-19 pandemic, JSA Environmental and Advanced Disposal are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the ADS Emerald Park Landfill for the week of October 25, 2020. The audit was performed at 2:40 PM on **October 28, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Operations Manager.

The last audit was performed on October 21, 2020

The weather conditions were clear skies, bright, sunny, and dry.

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 2 bulldozers
- 1 excavator

Contractors were operating:

No contractors

- A) Working Face and Location
  - Working face moving North across Phase 7 South
  - No other working faces
  - Site is using Autofluff
    - Abundance of autofluff stockpiled
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
  - MMSD controlling flow rates
  - Delivery of 1,300 cfm to MMSD
  - Total destruction volume 2,300 cfm
  - Three new wells not yet connected, including trench well
  - No Shutdowns since last audit, except for connections

Attachments:

200 a

- D) Surface Water Management
  - Heavy rains at end of last week. Site and site basins draining.
  - Basins have plenty of freeboard
- E) Odor Control
  - No offsite odors detected
    - No complaints received since last audit
  - Autofluff odor in parking lot
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - One pickers active on site
  - Site litter mostly at toe of slopes
- H) Vehicle Impacts
  - US 45 clean except for turn lanes which have debris
    - Union Church clean
  - Site roads are gritty, entrance patched with crushed stone
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW and C&D ~1,500 TPD
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed during audit, half of boxes are full, and site clean
- L) Other Comments
  - Three wells, including trench well, to be connected to vacuum system tomorrow
  - As new wells connected they have a SOP process to go through before vacuum can be maximized on each well.
  - Access road at toe of Phase 7 slope completed allowing access about West side of Phase 7

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Landfill Operations Audit Form

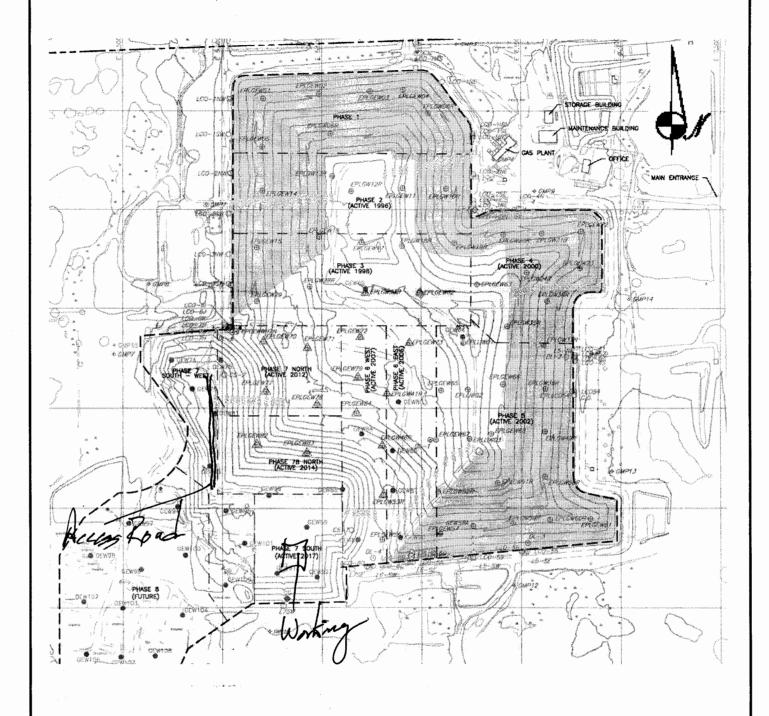
Page 1 of 5

	Cover Material:
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В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management: Check appropriate box.  Flares in Operation: YES NO # 1  Blowers in Operation: YES NO # 1  Flare use since last audit #  Shutdowns Since Last Audit: #  Total Number of Wells # Alf-3 Under vacuum # As1-3
	Flow to MMSD: # 1, 300 cfm flare ~ 1,000 cfm  Comments:  (msistent gas destruction) MMST (mstraling fore)
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D.	Surface Water Management:  Storm Events Since Last # 2 Est. Volume ~2"  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Heavy rains at end of last week. Site and Site  Dasins dvaidles basins has plant free board.
E.	Odor Control: Odors Present: Comments:  A volution of the control of the wise
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES V NO L
	Litter Present Offsite: YES MINO I
	Pickers Active: YES MNO   #
	Comments/
	Litter in US 45 ditch.
	Minor litter at toe of Stopes
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
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	Landfill Operations Audit Form Page 3 of 5

Other Comments:	/
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Auditor's Printed Name:	Date: 10/28/2020
Management Printed Name:  Management Title:  Management Title:	
JSA Principal Signature:	Date:
Landfill Operations Audit Form	Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Gas techs adjusting connections at new well and trench well connections





Working face filling in adjacent to yesterdays waste placement, wind protected by previous lift



Working face at South end of Phase 7, viewed from the North. Abundance of autofluff ADC stockpiled



Temp sed basin viewed from the South, reshaped for better protection of rainflap



Rain flap and sump repair completed on West toe of slope, Phase 7



Rain flap and sump repair completed on West toe of slope, Phase 7



Rain flap and sump repair completed on West toe of slope, Phase 7



West slope of Phase 7



New access road about Phase 7 South toe of slope, protects rain flap

#### JSA Civil Environmental Engineers



Temp sed basin reformed, access road about toe of Phase 7 slope complete

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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





## **GFL Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 11/11/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GLF are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of November 1, 2020. The audit was performed at 2:48 PM on **October 28, 2020** by Jo Spear, Jr.; in the presence of Dan Otzelberger; the Regional Manager.

The last audit was performed on October 28, 2020

The weather conditions were clear skies, sunny, and dry.

#### **Landfill Operations Audit:**

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

The operation required the use of:

1 compactor

2 bulldozers

Contractors were operating:

No contractors

- A) Working Face and Location
  - Working face in Southeast corner of Phase 7 South
  - No other working faces
  - Site is using Autofluff and soils
    - Abundance of autofluff stockpiled
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
- C) Gas Monitoring and Management
  - MMSD controlling flow rates
  - Delivery of 1,200 cfm to MMSD

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- Total destruction volume 2,450 cfm
- All wells connected and SOP completed, vacuum regularly checked on all wells
- No Shutdowns since last audit
- D) Surface Water Management
  - No rain since last audit and conditions have been dry
  - Basins about half full
  - Erosion Minimal
- E) Odor Control
  - · No offsite odors detected
  - · Onsite odor, faint gas at access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - · One pickers active on site
  - Litter in roadside ditches of US 45
  - Some blown litter on site
- H) Vehicle Impacts
  - US 45 clean
    - Union Church clean
  - Site roads rough and entrance potholed
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW and C&D ~1,000 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This
      will lower waste volumes for a period of time.
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site open during audit, moderately active, and site clean
- L) Other Comments
  - Rain flap damaged by equipment operator, repaired immediately
  - As new wells connected
  - NOV revoked as of November 5, 2020; letter attached.

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	CITY OF MUSKEGO						
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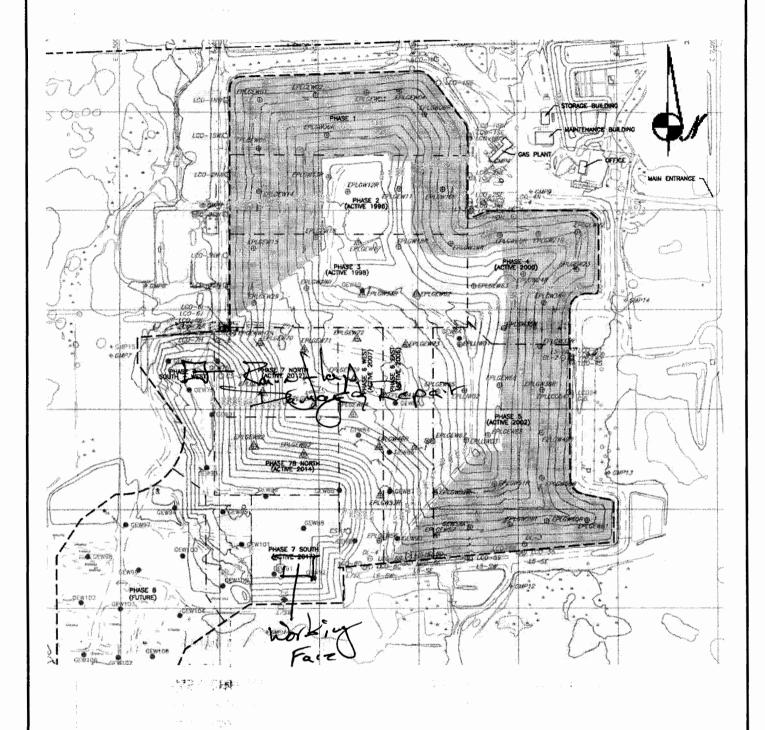
	Cover Material:
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management! Check appropriate box.  Flares in Operation: YES
D.	Surface Water Management:  Storm Events Since Last # > Est. Volume  EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Do Do Di Final Condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:  Do Do Di Final Condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:
E.	Odor Control: Odors Present: Comments:  Tace Trace of Bas ON Access year
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G	Litter Control:
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	Litter Present Offsite: YES MO
	Pickers Active: YES V NO #
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Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
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l.	Inspection of incoming Waste:
	Scale Camera Operator: YES V NO  # (
	Equipment Operator: YES NO  #
	Spotter: YES NO V, #
	Random Load Inspection Dates:
	Tonnage: 1.000
	Comments:
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J.	Rejected Loads:
	Date/Time Reason for Rejection
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K.	Residential Drop Off: Open During Audit
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	Landfill Operations Audit Form Page 3 of 5

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	Date: 11/1/20
Management Signature:	Date: ///6/20
Management Printed Name:   Sant Ottoberger	, ,
Management Title: / 6M.	
JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5
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### **Advanced Disposal Emerald Park Landfill Audit Map**



State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 3911 Fish Hatchery Road Fitchburg WI 53711-5397

Tony Evers, Governor Preston D. Cole, Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



November 5, 2020

File Ref: FID 268244130

Waukesha Co.

Via email - Daniel.Otzelberger@gflenv.com

Mr. Daniel Otzelberger Emerald Park Landfill, LLC W124 S10629 South 124th Street Muskego, WI 53150

Subject: Notice of Violation Closeout – June 12, 2020

Dear Mr. Otzelberger:

On June 12, 2020, the Department of Natural Resources (department) sent Emerald Park Landfill (EPL) a Notice of Violation alleging violations at the Emerald Park Landfill (license #3290) located at W124 S10629 South 124th Street, Muskego, Wisconsin. On June 29, 2020, an enforcement conference was held to discuss the allegations.

EPL has taken the following actions to regain compliance with its plan of operation and NR 500-538, Wis. Adm. Code:

- Aggressively removed leachate from all phases of the landfill to reduce leachate head on the liner to
  allow for gravity drainage from the facility. However, leachate levels in Phase 6 East remain elevated
  with leachate levels in LH-14 at approximately 3.24 feet (from a previous peak of 7.13 feet). EPL
  continues to aggressively remove leachate from Phase 6 East to further reduce leachate heads on the
  liner.
- Removed and disposed of impacted stormwater and soil from the temporary pond area and sedimentation basin.
- Repaired/replaced leachate collection pumps and other parts of the leachate extraction operating system as needed.
- Cleaned and televised all leachate collection lines except for two blockages. A specialized jetting nozzle has been shipped to the site and will be used to jet these areas by November 15, 2020.
- Obtained third-party weekly leachate head level readings at all leachate headwells with the landfill. Readings will continue to be taken weekly through the remainder of 2020.
- Submitted an expedited plan modification which requires third-party environmental monitoring and reporting for groundwater monitoring wells, private water supply wells, gradient control structure monitoring, leachate characteristic monitoring, leachate head level monitoring, and surface water monitoring locations.
- Performed third-party leachate head level monitoring evaluations at all Advanced Disposal Services landfills in Wisconsin to confirm reported leachate head well data.
- Performed third-party evaluations of reported leachate volumes removed and treated at all Advanced Disposal Services landfills in Wisconsin to confirm leachate was not being stored within the landfills.

Based on these actions and the information provided in the June 25, 2020, and October 7, 2020, responses to the department's notice of violation, the department has determined that EPL has substantially returned to



compliance and is closing out the Notice of Violation. The department reserves the right to reconsider this decision if future violations occur, if progress does not continue or if new information regarding the violations becomes available. We appreciate the work completed to date to resolve this issue.

As you are aware, the addition of outside liquids had been terminated due to significant leachate heads on the liner per NR 514.10(3)(c), Wis. Adm. Code. As indicated in the department's June 12, 2020 Notice of Violation, EPL would need to submit a revised research, development and demonstration plan modification to the department for review and approval prior to resuming liquids addition. The plan would need to include a summary of the investigation EPL has performed of the elevated leachate heads on the liner and propose changes to the plan to prevent the situation from occurring in the future. If you have questions regarding the plan modification, please contact Ann Bekta at ann.bekta@wisconsin.gov or 608-743-4845.

If you have questions regarding this letter, please contact me at 608-279-5219 or pamela.buss@wisconsin.gov.

Sincerely,

Pamela Buss

**Environmental Enforcement Specialist** 

Via email cc: Ann Bekta – DNR

David Buser - DNR Cynthia Moore – DNR

Tim Curry –Region Landfill Manager - tim.curry@gflenv.com

Kari Rabideau – kari.rabideau@gflenv.com

# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Western view of GFL Emerald Park Landfill





West slope of Phase 7



Resi-drop off



South slope of Phase 7 South and Phase 6, recently dressed with cover



Drip leg work at North end of Phase 7 South, tanker not in use



Access road with trench well on right hand side for gas collection



Travelway with stone to improve travel conditions across Phase 7



Travelway with stone to improve travel conditions across Phase 7



Active area viewed from the North



Active area in Southeast corner of Phase 7 South, abundance of autofluff for daily cover stockpiled



Temp sed basin viewed from the South



Rainflap exposed and repair at Northwest corner of Phase 7



West slope of Phase 7



Repaired rainflap, base of Phase 7 South, to be covered



Restored sump at base of Phase 7 Slope

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## **GFL Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 11/16/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of November 8, 2020. The audit was performed at 12:20 PM on **November 13, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on November 6, 2020

The weather conditions were bright sun and clear

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 2 bulldozers
- 1 Excavator
- 1 Haul Truck

Contractors were operating:

SCS conducting a waste sort

ESC conduction surface scan

- A) Working Face and Location
  - Working face in Southeast corner of Phase 7 South
  - No other working faces
  - Site is using Autofluff and other ADC
- B) Leachate Management
  - Leachate being pumped to MMSD treatment

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- C) Gas Monitoring and Management
  - No delivery to MMSD due to damaged meter
  - Total destruction volume 2,400 cfm
  - One shutdown on 11/10/2020 due to power outage
- D) Surface Water Management
  - One massive storm since previous audit
    - No evident damage other than record of power outage
  - Basins about half full and drying
  - Erosion Minimal
- E) Odor Control
  - No odors detected on or off site.
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - · Advanced is limiting pickers on the site to minimize risk
  - Litter minimal, picking after 11/10 storm completed prior to audit
- H) Vehicle Impacts
  - US 45 clean
    - Union Church clean
  - Site roads clean
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and two contractors
  - Receiving MSW and C&D ~1,000 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This will lower waste volumes for a period of time.
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site open during audit, very active, and site being cleaned during audit
- L) Other Comments
  - SCS conducting a waste study for the DNR, they will on site until 11/16/2020.
  - ESC conducting standard surface scan throughout the day, no alerts as of audit.
  - Telemetry work on going, awaiting materials.

#### ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 November 13, 2020 TIME 12:20 DATE Auditor on site at: Open Close PREVIOUS DATE: November 6, 2020 Completed TEMP Maximum °F Minimum B.P. 30.18 MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented No. DESCRIPTION Contracted Rented Contracted Compactor Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Maintenance No. DESCRIPTION Broken Broken Maintenance A. Working Face Size and Location: ENVIRONMENTAL

Landfill Operations Audit Form

2410 N. PALMER STREET MILWAUKER, WI 53212-360

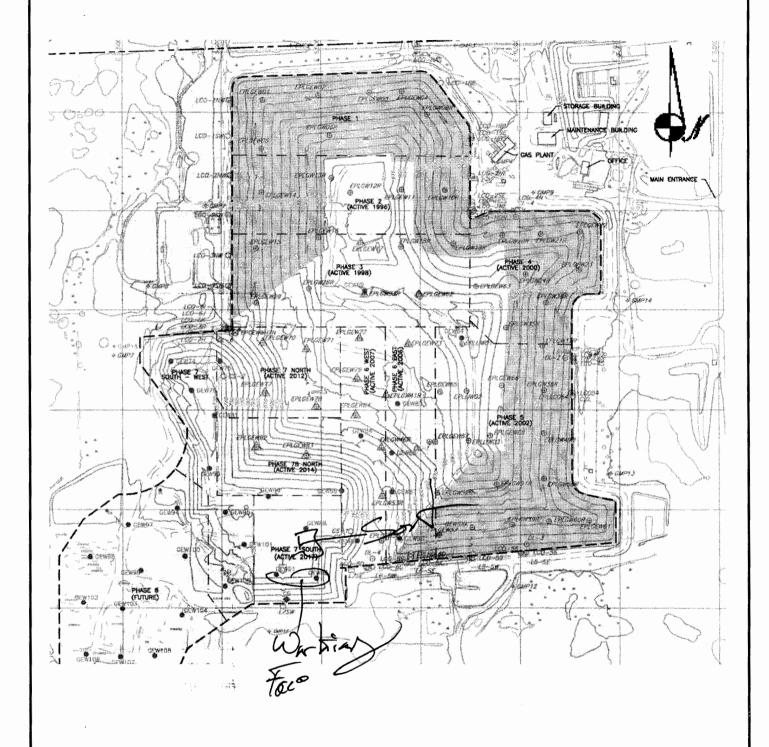
Page 1 of 5

	Cover Material;  Cover Material;  Cover Material;
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management: Check appropriate box.  Flares in Operation: YES NO # 1  Blowers in Operation: YES NO # 1  Flare use since last audit # 1  Shutdowns Since Last Audit: # 11 10 12 2 2  Total Number of Wells # N Underwachum # N  Flow to MMSD: # 2, 460 cfm  Comments:
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:  11 10 2020 Caus  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  August  Aug
E.	Odor Control: Odors Present: Comments: Onsite Offsite
F.	Liquid Loads Received:
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
ŀ	Litter Present Onsite: YES NO .
	Litter Present Offsite: YES NO 1
	Pickers Active: YES VNO   # 1
	Comments: /
	_ Lifter min'inal.
H.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
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l.	Inspection of incoming Waste:
	Scale Camera Operator: YES YNO #
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J.	Rejected Loads:
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	Landfill Operations Audit Form Page 3 of 5

L.	Other Comments:	
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	Auditor's Printed Name: Jawat Spear, Jr	Date: <u>11/12/2020</u>
	Management Signature:	Date: <u>//-/2-20</u> 0
	Management Printed Name:	
	Management Title:	
	JSA Principal Signature:	Date:
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	Landfill Operations Audit Form	Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Sampling and sorting area for SCS operated waste sort





Soils being added to West slope of Phase 7 South to improve intermediate cover



Soils being added to West slope of Phase 7 South to improve intermediate cover



West slope of Phase 7 North



Temp sed basin viewed from the North, and repaired rain flap and berm

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **GFL Emerald Park Landfill Audit Summary**

To: ADS Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 11/19/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of November 15, 2020. The audit was performed at 11:40 AM on **November 18, 2020** by Jo Spear, Jr.; in the presence of Dan Otzelberger; the Regional Manager.

The last audit was performed on November 13, 2020

The weather conditions were bright, clear, with high clouds

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 1 bulldozer
- 1 Excavator

No Contractors were operating:

- A) Working Face and Location
  - · Working face in Southeast corner of Phase 7 South
    - Working face very small, and slow moving due to low volumes
  - No other working faces
  - Site is using Autofluff and other ADC
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - One filter tank at drip leg on South slope of Phase 7 collecting leachate for tanker truck collection



- C) Gas Monitoring and Management
  - No delivery to MMSD due to damaged meter
    - Meter repair may take quite a while
  - Total destruction volume 2,600 cfm; volume significantly increased
- D) Surface Water Management
  - Dry week after heavy storm on 11/10/2020
  - Erosion minimal
- E) Odor Control
  - No odors detected off site.
  - Minor gas odor near well on West edge of access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Advanced is limiting pickers on the site to minimize risk
  - Litter offsite in US45 left turn lanes
  - High winds all week, three pickers throughout week
  - On site litter in fencing
- H) Vehicle Impacts
  - US 45 clean
    - Union Church clean
  - Site roads dusty, entrance rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and no contractors
  - Receiving MSW and C&D ~1,000 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This
      will lower waste volumes for a period of time.
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed with full and partially full boxes
- L) Other Comments
  - Tetratech still onsite to monitor leachate system 24/7
  - Telemetry install ongoing, awaiting antenna
  - Berm is planned for West slope of Phase 7

### GFL ADMANDED ASSESSMENTS EMERALD PARK LANDFILL LANDFILL OPERATIONS AUDIT FORM CITY OF MUSKEGO PROJECT NO. 1020.10030 TIME (1 .. 46 Auditor on site at: Open Close PREVIOUS DATE: November 13, 2020 Completed 40 °F B.P. 30.42 °F Minimum MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS No. DESCRIPTION Rented Contracted No. **DESCRIPTION** Rented Contracted Compactor Dozer Excavator Haul Truck Water Truck Grader MAJOR EQUIPMENT BONEYARD Maintenance No. No. **DESCRIPTION** Broken DESCRIPTION Broken Maintenance A. Working Face Size and Location:

Landfill Operations Audit Form

Page 1 of 5

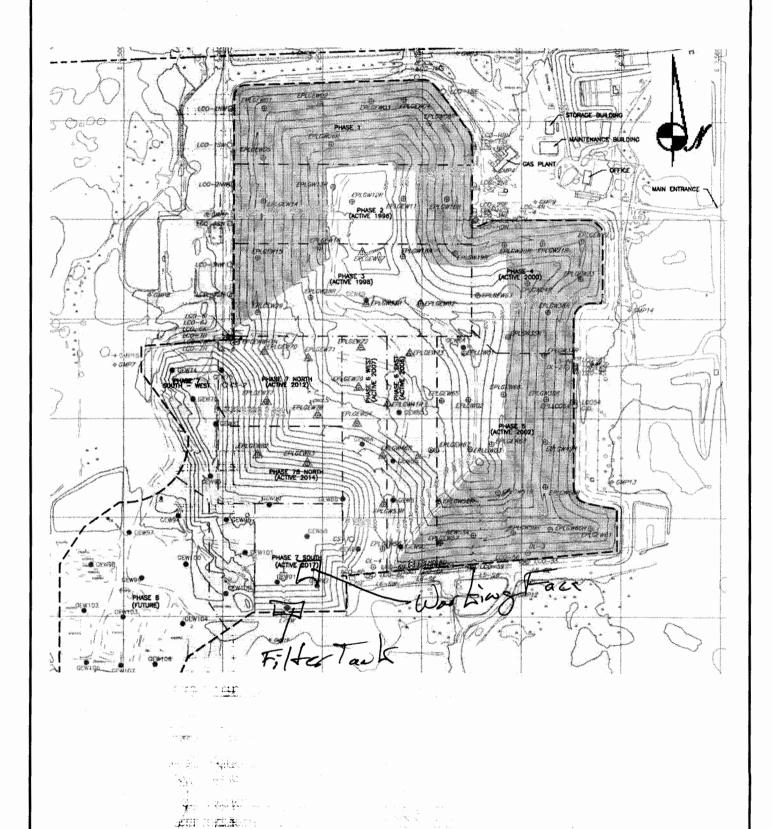
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Leachate Management:	
Discharge to MMSD Recirculation	
Phoses: Filter trailer being drained by touter	
Gas Monitoring and Management. Check appropriate box.	
Flares in Operation: YES MO   #   [	
Blowers in Operation: YES VNO (# 1	
Flare use since last audit # Cont.	
Shutdowns Since Last Audit: # \( \frac{1}{2} \)	
Total Number of Wells # 41/ Under vacuum # 41	
Flow to MMSD: 0.00   # 2,600   cfm	
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Storm Events Since Last # Est. Volume	
EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm	
water/waste contact locations:	
- 1 Dry week at ter (casing storm 11/10/200	
Odor Control:	
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Comments:	
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Landfill Operations Audit Form Page	e 2 of 5

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	Litter Present Offsite: YES NO Lact Turn asses
	Pickers Active: YES   NO   # 0,3
	Comments:
	High whole required more pickers
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures
	taken, instances of trucks on County roads.
	US45& 8 Mile clem
	Site roads dusty entrance rough
l.	Inspection of incoming Waste:
	Scale Camera Operator: YES NO #
	Equipment Operator: YES VNO . # 3
	Spotter: YES NO 1#
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Management Printed Name. Daniel Otze be cicr	2 a. a. 7,7107 50
Management Title: Oenest Manager	
JSA Principal Signature:	Date:
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Landfill Operations Audit Form	Page 4 of 5

### **Advanced Disposal Emerald Park Landfill Audit Map**



Landfill Operations Audit Form

Page 5 of 5

# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



View across Phase 7 from the North





Stockpiled autofluff adjacent to working face



Delivery of Autofluff



Several feet, in elevation, of bio-soil on Phase 3



Temp sed basin viewed from above



Temp Sed Basin viewed from the South



West slope of Phase 7, leachate sideslope riser exposed



West slope of Phase 7, repaired rain flap and access road



Temp sed basin and repaired rainflap with new access road

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



### **GFL Emerald Park Landfill Audit Summary**

To: GFL Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 11/24/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of November 22, 2020. The audit was performed at 1:05 PM on **November 24, 2020** by Jo Spear, Jr.; in the presence of Chad Siegle; the Site Manager.

The last audit was performed on November 18, 2020

The weather conditions was overcast, rain, with sleet expected to last the day

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 1 bulldozer

No Contractors were operating equipment

- A) Working Face and Location
  - Working face in Southeast corner of Phase 7 South away from out board slopes
    - Working face very small, and slow moving due to low volumes
  - No other working faces
  - · Site is using site soils and paper board
- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - One filter tank at drip leg on South slope of Phase 7 collecting leachate for tanker truck collection
- C) Gas Monitoring and Management
  - No delivery to MMSD due to damaged meter



Action Items List / Landfill Operations Audit Form Audit Photos



- Meter repair may take quite a while
- Total destruction volume 2,400 cfm; volume dropped since last week
- D) Surface Water Management
  - Event ongoing during audit, rain not heavy.
  - · Basins have freeboard
  - Erosion minimal
- E) Odor Control
  - No odors detected off site.
  - Minor gas odor on access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - GFL is limiting pickers on the site to minimize risk
  - No offsite litter
  - Due to high winds in the past week, site had five active pickers
    - Pickers were active on North slope of Phase 1 -3 during audit
- H) Vehicle Impacts
  - US 45 clean
    - Union Church clean
  - Site roads dusty, entrance rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and no contractors
  - Receiving MSW, ADC, and C&D ~1,000 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This will lower waste volumes for a period of time.
    - Autofluff delivery halted while plant shut down for maintenance
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed with mostly empty boxes
- L) Other Comments
  - Tetratech still onsite to monitor leachate system 24/7 ongoing until stated otherwise
  - Gas delivery halted due to ATI meter damage, meter is out for repair; but site doesn't have a repair date or assurances of repair.
  - Contractor previously laid out cut and fill stakes for placement of the berm on the West slope of Phase 7

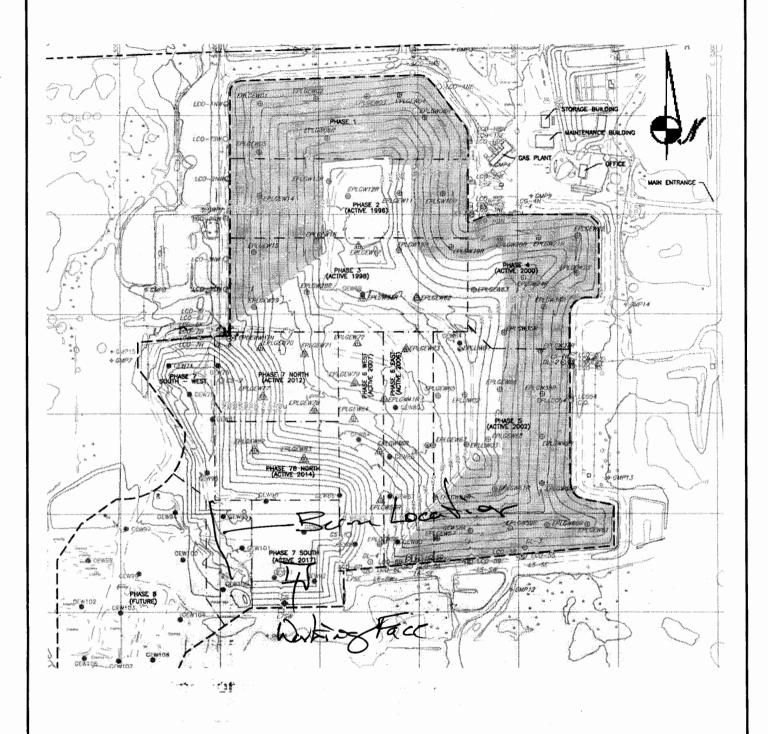
PROJECT NO. 1020.10030  DATE November 24, 2020 TIME 1:05 DM  Auditor on site at: Open Close Service WIND N S E W E S E  WEATHER Ouscast, sprukking rew start WIND N S E W E S E  TEMP Maximum 41 °F Minimum 30 °F B.P. 30.23  MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS  NO. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted Contracted Grader  Becavator Haul Truck Grader  Water Truck Grader  MAJOR EQUIPMENT BONEYARD  NO. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:	PROJECT NO. 1020.10030  DATE November 24, 2020 TIME 1:05 PM Auditor on site at: Open Close PREVIOUS DATE: November 18, 2020 Completed WIND SEW SEW SEW SEW SEW SEW SEW SEW SEW SEW		GREEN FOR I				ERALD PARK LAN	IDFILL	
PREVIOUS DATE: November 24, 2020 Completed  WEATHER Overact Sprinkling (2:2) See Wind No. See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See Wind See See See Wind See See See Wind See See See Wind See See See Wind See See See Wind See See See See See See See See See Se	DATE November 24, 2020 TIME LOS DATE  Auditor on site at: Open Close MIND SECRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance Cornact Secret November 18, 2020 TIME LOS DATE:  November 18, 2020 Completed Secription Sented Secription Rented Secription Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Ma						FORM		
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Auditor on site at: Open	Auditor on site at: Open	PROJEC	CT NO. 1020.10030	· ·					
Auditor on site at: Open	Auditor on site at: Open	D.A	ATF Novemb	er 24 2020			TINA	e l'ac	~
PREVIOUS DATE:  November 18, 2020 Completed  WEATHER DUCCAST, SPINIFICATIONS  No. SE WESSE  TEMP Maximum 41 °F Minimum 39 °F B.P. 30.23  MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS  No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted  Compactor  Dozer  Excavotor  Haul Truck  Water Truck  Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:	WEATHER Our cast sprint from 18,2020 Completed  WEATHER Our cast sprint from 18,2020 No. S.E. W.  TEMP Maximum 41 °F Minimum 39 °F B.P. 30,23  MAJOR EQUIPMENT USED IN LANDFILL OPERATIONS  No. DESCRIPTION Rented Contracted No. DESCRIPTION Rented Contracted  Compactor  Dozer  Excavotor  Houl Truck  Wester Truck  Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:	Β,	1 TO TOTAL		<u>'</u>	Close		L (.03	<del>1</del> 4
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Excavator Haul Truck Water Truck Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:	Excavator Haul Truck Water Truck Grader  MAJOR EQUIPMENT BONEYARD No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:  Southeast  Cornac of Thase Foreign South  Alabor Palacers Street	l	Compactor						
Haul Truck Water Truck Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:	Haul Truck Water Truck Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:  Description Broken Maintenance No. Description Broken Maintenance  Cornar of Hase Face Foundation:  ENVIRONMENTAL BAIND PALABERS STREET	l	Dozer						
Water Truck Grader  MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:	Water Truck Grader  MAJOR EQUIPMENT BONEYARD  NO. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Corner of Plase Found.  Description Broken Maintenance No. Description Broken Maintenance  Corner of Plase Found.  ENVIRONMENTAL  SAUGN PALAMENT STEELER FOUND.		Excavator						
MAJOR EQUIPMENT BONEYARD  No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:	MAJOR EQUIPMENT BONEYARD  NO. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:  Corner of Thase Fourth.  Description Broken Maintenance No. Description Broken Maintenance  Corner of Thase Face Fourth.  Description Broken Maintenance No. Description Broken Maintenance  Maintenance No. Description Broken Maintenance No. Description Broken Maintenance  Maintenance No. Description Broken Maintenance No. Description Broken Maintenance  Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Description Broken Maintenance No. Descrip		Haul Truck						
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No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:  Corner of Thase Fourth.	No. DESCRIPTION Broken Maintenance No. DESCRIPTION Broken Maintenance  Working Face Size and Location:  Working Face Size and Location:  Southeast  Office Size and Location:  ENVIRONMENTAL  BAILON PALMER STREET								
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	Landfill Operations Audit Form Page 1 of 5			land	Ifill Operations	Audit For	/ m	*	Page Lof 5

	Cover Material:  Site soil ? Paper Dona
В.	Leachate Management:  Discharge to MMSD  Recirculation  Phases:
C.	Gas Monitoring and Management: Check appropriate box.  Flares in Operation: YES NO # 1  Blowers in Operation: YES NO # 1  Flare use since last audit # 6 1  Shutdowns Since Last Audit: # Control Number of Wells # A1 ( Under vacuum # A1)  Flow to MMSD: Destruct # 2, 400 cfm  Comments:  ART - out for repair - No estimates et for return
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:  From Surface Water Management:  And Contact Storm Events Since Last # Est. Volume  And Contact Storm Events Since Last # Carn Contact Storm Water/Waste Condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:
E.	Odor Control: Odors Present: Comments:  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite  Onsite
F.	Liquid Loads Received:  Landfill Operations Audit Form  Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES NO L
	Pickers Active: YES ▼NO □ # ≤
	Comments:
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	taken, instances of trucks on County roads.
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	Spotter: YES NO V / # /
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	Comments:
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	No - Shrader Huf, plant sown for Maintenante
J.	Rejected Loads:
	Date/Time Reason for Rejection
	2.
K.	Residential Drop Off: Open During Audit
	Site clear, boxes mostly empty
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	Landfill Operations Audit Form Page 3 of 5

Other Comments:	
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ve paired or replaced	
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to contro Starm waster	
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Landfill Operations Audit Form	Page 4 of 5

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



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



West slope of Phase 7 South, improved gas collection





View across Phase 7



Access road to Working face, area very tight, face is small due to volume



Access road extended another lift



Temp sed basin viewed from South, details of side slopes



Temp Sed Basin viewed from the South



West slope of Phase 7, leachate sideslope riser exposed



Access road built over rainflap at toe of West slope of Phase 7



Temp sed basin viewed from the North

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



December



### **GFL Emerald Park Landfill Audit Summary**

To: GFL Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 12/02/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of November 29, 2020. The audit was performed at 10:25 AM on **December 1**, **2020** by Jo Spear, Jr.; in the presence of Dan Otzelburger; the Regional Manager.

The last audit was performed on November 24, 2020

The weather conditions was Sunny, clear, and crisp

#### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 1 bulldozer
- 1 haul truck

One Contractor, The Oaks, were operating equipment

- 1 excavator
- 1 haul truck
- 1 bulldozer
- A) Working Face and Location
  - Working face in Southern end of Phase 7 South away from out board slopes
    - Working face very small, and slow moving due to low volumes
  - No other working faces
  - Site is using auto-fuff and soils for daily cover
- B) Leachate Management

Attachments:

Action Items List / Landfill Operations Audit Form Audit Photos



- Leachate being pumped to MMSD treatment
  - One filter tank at drip leg on South slope of Phase 7 collecting leachate for tanker truck collection
- C) Gas Monitoring and Management
  - No delivery to MMSD due to damaged meter
    - Meter delivery and repair may occur this week
  - Total destruction volume 2,500 cfm; volume higher than previous audit
- D) Surface Water Management
  - Temp sed basin in need of pumping
  - · Basins have freeboard
  - Erosion minimal
- E) Odor Control
  - No odors detected off site.
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - GFL is limiting pickers on the site to minimize risk
  - No offsite litter
  - Due to high winds in the past week, site had three active pickers
    - Pickers were active on East slope of Phase 5 during audit
- H) Vehicle Impacts
  - US 45 & Union Church clean
  - Site roads dusty, entrance rough with potholes
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractors
  - Receiving MSW, ADC, and C&D ~900 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This
      will lower waste volumes for a period of time.
    - Volumes reduced further due to holiday
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site closed and boxes being emptied during audit
- L) Other Comments
  - Tetratech still onsite to monitor leachate system 24/7 ongoing until stated otherwise
  - Gas delivery halted due to ATI meter damage, meter is repaired and expected to be returned to the site on 12/03/2020 and installation should be a mater of hours.
  - Contractor building berm on West slope of Phase 7 with material excavated from future Phase
     8

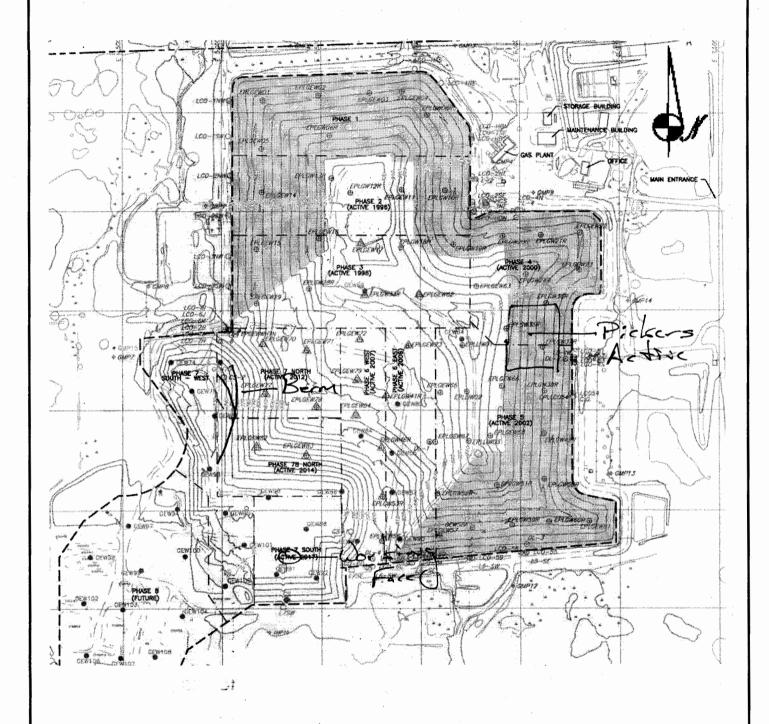
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В.	Leachate Management:
	Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management: Check appropriate box.
	Flares in Operation: YES NO   #
	Shutdowns Since Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last Audit: # Continue Last A
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_	Surface Water Management
υ.	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 Mostly dratised more to
	Vemp sed basin pot pumping during and t but
	will be pumped down
E.	Odor Control:
	Odors Present: Onsite Offsite
	Comments:
F.	Liquid Loads Received:
	1/201
	Landfill Operations Audit Form Page 2 of 5

G.	Litter Control:
	Litter Present Onsite: YES V NO .
	Litter Present Offsite: YES NO V
	Pickers Active: YES ✓ NO ☐ #.3
	Comments:
	Fickers active on East slope of
	Thase 5
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.
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	Site roads dusty entrance potholed
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ı.	Inspection of incoming Waste:  Scale Camera Operator: YES V NO  # 1
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	Comments:
	Ws. \ ADC Com
J.	Rejected Loads:
	Date/Time Reason for Rejection
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	2. ONC
K.	Residential Drop Off: Open During Audit    E-Waste Container Present
	Boxes being emptico during andit. Dite clear.
	Landfill Operations Audit Form Page 3 of 5

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Auditor's Printed Name:	Jo-Walter Spear, Jr.	
Management Signature:	Not Opella	Date: 12/1/2
Management Printed Name:	Daniel Otzelberger	<u> </u>
Management Title.	GM	
JSA Principal Signature: _	<u> </u>	Date:
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# Green For Life Environmental (GFL) Emerald Park Landfill Audit M



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Leachate collection prior to filter tank and tanker hauling





Leachate collection prior to filter tank



South slope of Phase 7



Cover materials stockpiled in active area



Active area viewed from the West



Tipping in Phase 7 South, Southern end



Temp sed basin pumping to clear water to basin #1



Temp sed basin restored



Contractor excavating future Phase 8 to provide material for construction of Phase 7 West slope berm



Contractor excavating future Phase 8 to provide material for construction of Phase 7 West slope berm



Contractor excavating future Phase 8 to provide material for construction of Phase 7 West slope berm



Access road built over rainflap at toe of West slope of Phase 7



West slope of Phase 7, note new berm construction to move runoff from North to South



Header for leachate collection



Berm development on West Slope of Phase 7



Berm development on West Slope of Phase 7



Berm development on West Slope of Phase 7



Berm development on West Slope of Phase 7



Berm development on West Slope of Phase 7

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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### **GFL Emerald Park Landfill Audit Summary**

To: GFL Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

DATE: 12/15/2020

PROJECT NUMBER: 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of December 6. 2020. The audit was performed at 1:32 PM on **December 11, 2020** by Jo Spear, Jr.; in the presence of Dan Otzelburger; the Regional Manager.

The last audit was performed on December 1, 2020

The weather conditions were over cast, raining and sleeting during audit

### **Landfill Operations Audit:**

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

The operation required the use of:

- 1 compactor
- 1 bulldozer

Contractors on site were monitoring leachate volumes and controlling pump rates, along with installing telemetry system.

### A) Working Face and Location

- Working face in the Southwest of Phase 7 South developing raised berm to protect future interior working faces.
  - Working face very small, and slow moving due to low volumes
- No other working faces
- Site is using soils for outboard slope cover and various ADCs for interior slope cover.
  - Autofluff, failed compost, and paper board stockpiled in Phase 7
- B) Leachate Management
  - Leachate being pumped to MMSD treatment

Attachments:

Audit Photos



- One filter tank at drip leg on South slope of Phase 7 collecting leachate for tanker truck collection
- C) Gas Monitoring and Management
  - Meter repaired and installed on 12/5/2020
  - 1,300 cfm being delivered to MMSD, 1,000 cfm being destroyed by flare
    - Total destruction volume 2.350 cfm
- D) Surface Water Management
  - Ongoing event during auditing
  - Temp sed basin pump offline and pulled for repairs
  - · Basins have freeboard
  - Erosion minimal
- E) Odor Control
  - No odors onsite
  - Offsite odor wafting on 8 Mile Road at end of screening berm
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - GFL is limiting pickers on the site to minimize risk
  - No offsite litter
  - Litter in Wetland South of Phase 7; site relocated fences to prevent additional litter.
    - Two pickers active on site
- H) Vehicle Impacts
  - US 45 & Union Church clean, however the interior shoulders of US 45 have debris
  - Site entrance very rough and potholed
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators
  - Receiving MSW, ADC, and small volume of soils for ~1,000 TPD
    - Waste management acquired the roll off portion of the Advanced Hauling company. This will lower waste volumes for a period of time.
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
  - Site operating during audit, but not heavily used. Boxes mostly empty and site is clean
- L) Other Comments
  - Pump repair mandatory for temp sed basin
  - Hydrogen Sulfide filter media swap expected to be conducted next week and be complete by end of the year.
  - Telemetry installation ongoing, not all materials on site.

# GREEN FOR LIFE ENVIRONMENTAL (GFL) EMERALD PARK LANDFILL LANDELL OPERATIONS ALIDIT FORM

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# Green For Life Environmental (GFL) Emerald Park Landfill Audit M ai kilika en ele Landfill Operations Audit Form Page 5 of 5

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# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Dozer spreading cover on South top of slope of Phase 7 South





Dozer spreading cover on South top of slope of Phase 7 South



Dozer spreading cover on South top of slope of Phase 7 South



Southeast corner of Phase 7 South



West slope of Phase 7, along access road, probable location of odors and placement of horizontal trench



Phase 7 North across to Phase 7 South



Tipping at Working face, two trucks active, one arriving and one departing



Trucks moving about active area



Working face very small and tucked up to create berm



Temp sed basin viewed from access road to the South



Temp sed basin and leachate header viewed from the South



Southeast corner of Phase 7 South, some flagging and litter from previous waste placement



Temp sed basin viewed from the South, currently not pumping

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

Opened: 05/28/2020 Updated: 01/09/2014 - Cleared

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



## **GFL Emerald Park Landfill Audit Summary**

To: GFL Emerald Park Landfill Standing Committee, City of Muskego

FROM: Jo-Walter Spear, Jr., P.E.

COPIES: File

**DATE:** 12/16/2020

**PROJECT NUMBER:** 1012.10030

On Monday November 2, 2020 Green For Life Environmental, Inc. (GFL) acquired the Emerald Park Landfill from Advanced Waste, via the sale of Advanced to Waste Management. For purpose of auditing and committee meetings there does not appear to be a change in active staff from the landfill or regional support.

Due to the COVID-19 pandemic, JSA Environmental and GFL are engaging CDC guidelines and common sense.

Attached is the audit report for activities at the GFL Emerald Park Landfill for the week of December 13, 2020. The audit was performed at 12:34 PM AM on **December 11, 2020** by Jo Spear, Jr.; in the presence of Chad Seigle; the Site Manager.

The last audit was performed on December 11, 2020; there is an error in the recording of the December 11 Audit, it is a typo with regards to the date and reads as December 12th.

The weather conditions were clear, sunny, and dry

### **Landfill Operations Audit:**

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

The operation required the use of:

1 compactor

1 bulldozer

One Contractor on site using equipment

1 front end loader

### A) Working Face and Location

- Working face in Southeast corner, lift being used to develop berm to protect future working faces from inclement weather and winds
  - Working face very small, and slow moving due to low volumes
- No other working faces
- Site is using soils and ADC for daily cover
  - Soils only for cover on the outboard/West slope



Audit Photos



- B) Leachate Management
  - Leachate being pumped to MMSD treatment
    - One filter tank at drip leg on South slope of Phase 7 collecting leachate for tanker truck collection
    - Trench for collecting from drip leg full at time of audit
- C) Gas Monitoring and Management
  - Filter media for hydrogen sulfide removal being conducted by contractor
    - No delivery while filter is offline
    - Flaring 2,400 cfm of LFG, a recovery after 12/11
    - Filter media swap should be completed December 16, 2020
- D) Surface Water Management
  - Rain event continued from over weekend.
  - Temp basin pump not online as of yet
  - Overall site is entering into a freeze, basins have iced surfaces
- E) Odor Control
  - No odors offsite, minor gas odor on access road
- F) Liquid Loads
  - Site not taking liquid loads and will not be for quite some time due to high leachate head elevations
- G) Litter Control
  - Litter in roadside ditches of US 45
  - · Some blown litter on site
- H) Vehicle Impacts
  - Besides roadside litter, US 45 and 8 Mile Road are clean
  - Site roads clean, entrance very rough
- I) Inspection of Incoming Waste
  - Site operating with three equipment operators and one contractor
  - Receiving MSW and C&D < 1,000 TPD</li>
    - Waste management acquired the roll off portion of the Advanced Hauling company. This
      will lower waste volumes for a period of time.
- J) Rejected Loads
  - No rejected loads
- K) Residential Drop Off
  - E-Waste Container present
    - emptied by contractor prior to audit
  - Boxes mostly full and site clean
- L) Other Comments
  - Tetratech still onsite to monitor leachate system 24/7 ongoing until stated otherwise.
    - Telemetry materials being installed as delivered
  - Hydrogen sulfide filter media swap ongoing, expected completion 12/16/2020
  - Site planning the addition of a new leachate storage tank

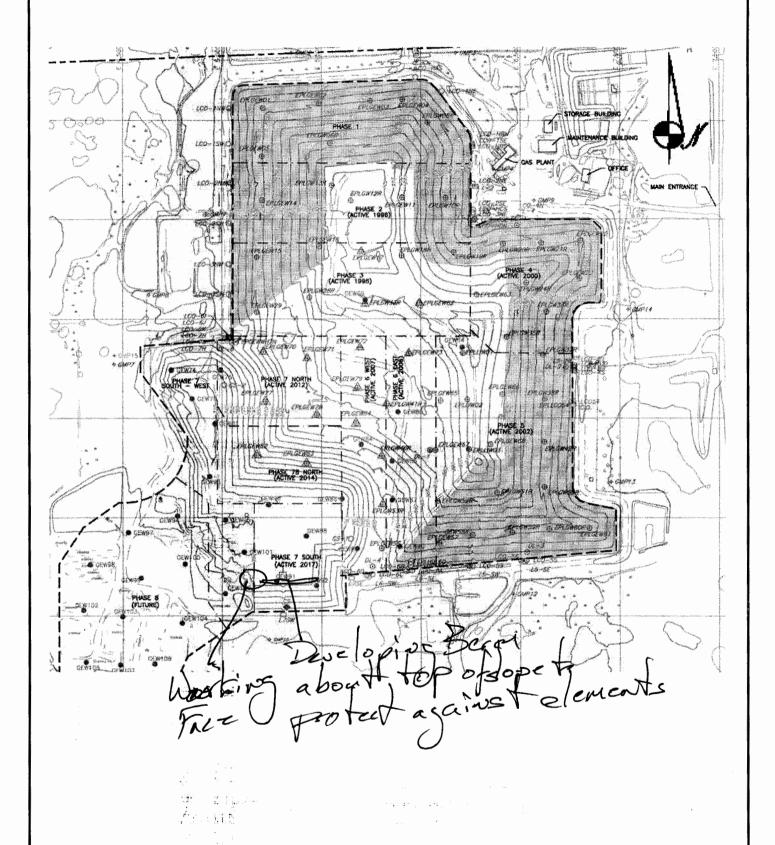
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	Cover Material:
	Soils & AD
В.	Leachate Management:  Discharge to MMSD Recirculation
	Phases:
C.	Gas Monitoring and Management. Check appropriate box.
	Flares in Operation: YES NO # 1  Blowers in Operation: YES NO # 1
	Flare use since last audit # (a.t.) bus us  Shutdowns Since Last Audit: #
	Total Number of Wells # All Under vacuum #All
	Elew to MMSD: Flare # 2,400 cfm  Comments:
	Site Not delivoirs due to 125 Media
	exchange Should be back solve by
D.	Surface Water Management: Storm Events Since Last # / Est. Volume 72/10
	EFFECTS: Note condition of perimeter road, erosion control structures, erosion damage and possible storm water/waste contact locations:
	Lair esolt over we kend. Site basins
	iced over. Site oxerall freezing
Ε.	Odor Control:
	Odors Present: Onsite Offsite
	Wild gas one on accession
F.	Liquid Loads Received:
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	Landfill Operations Audit Form Page 2 of 5

G.	Litter Present Onsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO Litter Present Offsite: YES NO L
Н.	Vehicle Impacts: Locations of excessive mud/dust, condition of access and public roads and control measures taken, instances of trucks on County roads.  (15 45 ditches have some littles  Site roads (lev) entrance rough.
<b>I.</b>	Inspection of incoming Waste:  Scale Camera Operator: YES NO #  Equipment Operator: YES NO #  Spotter: YES NO #  Random Load Inspection Dates: 12 2 2070 Form  Comments:
J.	Rejected Loads:  Date/Time Reason for Rejection  1. 2.
K.	Residential Drop Off: Open During Audit   E-Waste Container Present   Price   Maste   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price   Price
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### Green For Life Environmental (GFL) Emerald Park Landfill Audit Ma



# ADVANCED DISPOSAL SERVICES EMERALD PARK LANDFILL / CITY OF MUSKEGO AUDIT PHOTOS

PROJECT NO. 1012.10030



Previous area of flagging and litter on Southwest corner of Phase 7 South





Continuation of lift/berm construction around outter top of slope If Phase 7 to protect inner future working faces



Mobile fences relocated to catch litter and provent travel off the active area

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

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