

Teinicule Kharroubi 11/8/2019 Q3 SEM 500PPM

November 8, 2019

Reference No. 11146097

Mr. Tom Hasek Waste Management of New York, LLC 425 Perinton Parkway Fairport, NY 14450

Dear Mr. Hasek:

Re:

Third Quarter Surface Monitoring at High Acres Landfill

NYSDEC Permit ID No.: 8-9908-00162/00043

On September 11 and 12, 2019, GHD conducted the 2019 Third Quarter (Q3) New Source Performance Standards (NSPS) Surface Emissions Monitoring Event (SEM) for the Waste Management of New York, LLC (WMNY) - High Acres Landfill and Recycling Center (High Acres) facility located in Fairport, New York. The monitoring was conducted in accordance with Code of Federal Regulations (CFR) Title 40, Part 60, Appendix A, Method 21.

GHD performed the calibration, evaluation, and monitoring using a Thermo Environmental Instruments Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID) to determine surface methane levels. Attachments 1 and 2 contain the monitoring instrument performance evaluation and calibration documentation. The monitoring included the entire perimeter of the collection area and a serpentine pattern at 30-meter intervals, as required in 40 CFR 60.753(d), and generally followed the monitoring route detailed on Figure 1. The technician also monitored areas where visual observations indicated elevated concentrations of landfill gas such as distressed vegetation and cracks or seeps in the cover. Furthermore, the technician avoided dangerous areas as depicted on Figure 1.

Table 1 provides a summary of the locations that exhibited a reading of 500 parts per million (ppm) above background or greater during the initial Q3 SEM event. Also included in Table 1 is a summary of monitored exceedances and corrective actions implemented at each location along with the results of all follow-up monitoring. Attachment 3 provides the monitoring exceedance description forms for each location.

Based on the scope of work performed, the High Acres Landfill facility complies with the requirement of 40 CFR 60.753(d) for Municipal Solid Waste (MSW) Landfills.



GHD appreciates the opportunity to provide these services for the WMNY High Acres Landfill facility. If you have any questions, please feel free to contact the undersigned at 716-297-6150.

Sincerely,

GHD

Steven D. Wilsey Principal

Bryan P. Szalda Engineer

548 Wilsy Bryan P. Syalda

SDW/cs/7

Encl.

CC:

M. Miller, WMNY

M. Casullo, GHD

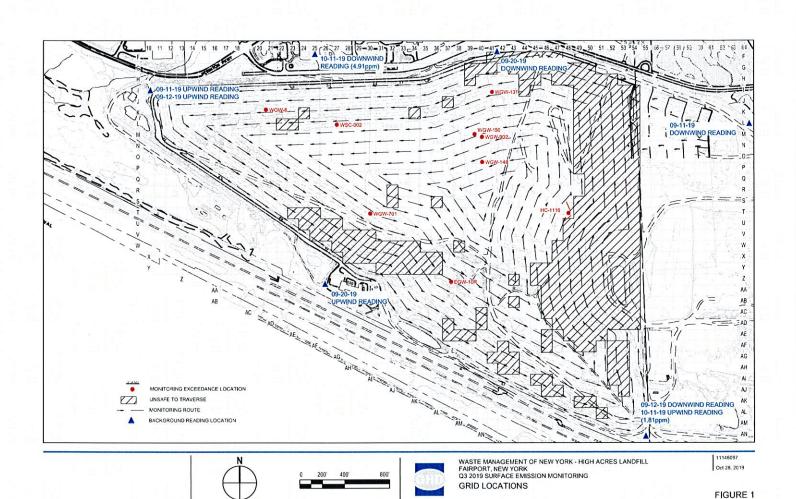


Table 1

Description of Surface Monitoring Exceedances High Acres Landfill Fairport, New York

Year:	2019	Quarter:	3								
<u>.</u>		Initial Monito	ring Event			0-day r-up Event	Additional Corrective Actions		nal 10-day -up Event		Month up Event
Monitoring Date	Landfill Name	Location ID	Concentration (ppm)	Initial Corrective Action	Monitoring Date	Concentration (ррт)	Additional Corrective Actions Implemented (If Applicable)	Monitoring Date	Concentration (ppm)	Monitoring Date	Concentration (ppm)
09/11/2019	Western Expansion Landfill	West GW-137	> 500	Replaced Pump	09/20/2019	<500	-		-	10/11/2019	<500
09/11/2019	Western Expansion Landfill	West GW-8	> 500	Installed Liner	09/20/2019	<500			-	10/11/2019	<500
09/11/2019	Western Expansion Landfill	West SC-002	> 500	Installed Liner	09/20/2019	<500			-	10/11/2019	<500
09/11/2019	Western Expansion Landfill	West GW-148	> 500	Added Cover Dirt	09/20/2019	<500			-	10/11/2019	<500
09/11/2019	Western Expansion Landfill	West GW-701	> 500	Installed Liner	09/20/2019	<500			•	10/11/2019	<500
09/11/2019	Western Expansion Landfill	HAHC-1116	> 500	Repaired Liner	09/20/2019	<500	-		-	10/11/2019	<500
09/12/2019	Western Expansion Landfill	West GW-902	> 500	Explosed Liner; Taped	09/20/2019	<500	-		-	10/11/2019	<500
09/12/2019	Western Expansion Landfill	West GW-150	> 500	Installed Liner	09/20/2019	<500	-		-	10/11/2019	<500
09/12/2019	Closed Landfill	East GW-10R	> 500	Added Cover Dirt	09/20/2019	<500			-	10/11/2019	<500

GHD 11146397Hasek-7

Attachment 1 Calibration Sheets

Project Number:	11146097		
Client:	WMNT		

Date:	9/11/19
Operator Name:	Michael Casallo
Facility:	High Aeres Laulfill
Instrument ID:	NF 07163
Zero Gas Lot Number:	37-400150751-11 Exp. Date 2/12/2
Calibration Gas Lot Number:	FBS-150A-500-3 Exp. Date 5/7/23
Calibration Gas Conc.:	ppm
90% of Calib. Gas Conc.:	450 ppm

Trial No.	Time to reach 90	% gas value	
i	3.43	seconds	
2	3.68	seconds	
3	3.52	seconds	
Average	3.54	_seconds	NOTE: Must be < 30 seconds

Trial No.	Meter Reading After Zero Gas *	Meter Reading After Methane Gas	Difference Between Calibration Gas and Meter Reading
l	ø ppm	502 ppm	
2	6 ppm	563 ppm	3 ppm
3	ø ppm	563 ppm	3 ppm

Average Difference: 2.67 ppm

Calibration Precision = Average Difference/Calibration Gas Conc. X 100%

= 2.67 ppm / 500 ppm X 100%

= 0.53 %

* If results are > zero (0 ppm) then an internal calibration is required

Page 1 of 1



Project Number:	11146097	
Client: _	YMMW	

General Information:		ı		
Date:	9/11/	19		
Operator Name:	Michael (dire		
Facility:	High Am	8 Londfill		
Instrument ID:	NF 0716	3		
Wind Direction:	N NE SE S S	SW W (circl	e one)	
Approximate Wind Spe	ed8-10	mph		
General Weather: clear.	partly cloudy, over	cast.	(circle one	or write in)
o pred	cip) drizzle, rain,	snow.	(circle one	or write in)
Calibration Informati	on:			
Calibration Gas Conc.:	**-	500 ppm		
Conduct internal zero c	alibration?	√ No (circle one)	
Instrument reading afte	r calibration:	503 ppm (sh	ould be same as	above)
Time of Calibration:	_	L: Ompm (fil	in and pick one)	ı
Background Concenti	ration Information	: :		
Background concentrat	ion upwind of site:	1.2	ppm	0
Background concentrat	ions downwind of s	site: <u>2.8</u>	Avei ppm	rage: 2ppm
Location of backgrou	nd readings			
Upwind: West e	nd of WE	X on pen'n	neter road	1
Downwind: <u>East</u>	of cell	12 on p	erimeter	road
		/.		2/2/11
	Çia.			

Page <u>2</u> of <u>2</u>



Project Number	11146097
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Date:	9/11/19
Operator Name:	Byan Szalda
Facility:	High Acres Land RII
Instrument ID:	GHD 09301
Zero Gas Lot Number:	37-400150757-11 Exp. Date 2/12/21
Calibration Gas Lot Number:	FBS - 150A - 500-3 Exp. Date 5/7/23
Calibration Gas Conc.:	ნაOppm
90% of Calib. Gas Conc.:	ppm

Trial No.	Time to reach 90% gas value			
1	8.01	seconds		
2	11.3	seconds		
3	_11.6	seconds		
Average	11.23	seconds	NOTE: Must be < 30 seconds	

<u>Trial No.</u>	Meter Reading <u>After Zero Gas *</u>	Meter Reading After Methane Gas	Difference Between <u>Calibration Gas and Meter Reading</u>
l		499 ppm	ppm
2	Øppm	496_ppm	4ppm
3	Ø ppm	201 bbw	

Average Difference: ______ppm

Calibration Precision = Average Difference/Calibration Gas Conc. X 100% = $\frac{-1.33}{\text{ppm}}$ ppm / $\frac{500}{\text{ppm}}$ x 100% = $\frac{-0.27}{\%}$

^{*} If results are > zero (0 ppm) then an internal calibration is required



Project Num	ber:	11146097	
	Client: _	rumu	

General Information:	1977		
Date:	9/11/19		
Operator Name:	Bryan Szalda		
Facility:	Bryan Szalda High Aeres Landfil		
Instrument ID:	GHD 09301		
Wind Direction:	N NE SE S SWWWW (c	rircle one)	
Approximate Wind Spo	eed P-10 mph	1	
General Weather: clear,		(circle one or v	vrite in)
	cip, drizzle, rain, snow,		
Calibration Informat	ion:		
Calibration Gas Conc.:	_ 500 ppm		
Conduct internal zero o	calibration?	o (circle one)	
Instrument reading afte	er calibration: 499 ppm	(should be same as about	ve)
Time of Calibration:		(fill in and pick one)	
Background Concent		2	
Background concentral		Average	. 2ppm
Background concentrate	tions downwind of site: 2.8	ppm ///ciago	ррш
Location of backgrou	nd readings		
Upwind: (Nest	end of WEX on	perimeter ro	ad
Downwind: <u>Eas</u>	t of cell 12 or	perimeter .	road
		TO DESCRIPTION OF THE PROPERTY	
	Signature_ V)	pr P Sylde	

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Project Number:	11146097
Client:	WMNY

Date:	4/11/19
Operator Name:	Benson Chen
Facility:	High Ams Landlill
Instrument ID:	TE B18278B
Zero Gas Lot Number:	37-400150751-11 Exp. Date 2/12(21
Calibration Gas Lot Number:	FBJ-150A-500-3, Date 5/7/23
Calibration Gas Conc.:	
90% of Calib. Gas Conc.:	450 ppm
Trial No. Time to reach	90% gas value
1 6.74	seconds
2 6.4	3_seconds
3 <u>5. ll</u>	seconds
Average <u>6.09</u>	seconds NOTE: Must be < 30 seconds
Meter Reading <u>Trial No.</u> After Zero Gas *	Meter Reading Difference Between After Methane Gas Calibration Gas and Meter Reading
i <u>O</u> ppm	495 ppm -5 ppm
	<u>497 ppm </u>
3 Ø ppm	513 ppm 23 ppm
Averag	ge Difference:ppm

= <u>5 ppm / 500 ppm X 100%</u> = 41%

Calibration Precision = Average Difference/Calibration Gas Conc. X 100%

^{*} If results are > zero (0 ppm) then an internal calibration is required



Project Number:	11146097		
Client:	MMNY		

General Information:			
Date:	9/11/19		
Operator Name:	Berson Chen		
Facility:	High Acres Lan	<u>d</u> fu	
Instrument ID:	IE B18278B		
Wind Direction:	N NE E SE S SW WNW	(circle one)	
Approximate Wind Spe	ed8~10m	nph	
General Weather: clear, g	70 °F, partly cloudy, overcast,	(circle one or write in)	
po prec	n., drizzle, rain, snow,	(circle one or write in)	
Calibration Information	on:		
Calibration Gas Conc.:	500 p	pm	
Conduct internal zero ca	alibration?	No (circle one)	
Instrument reading after	calibration: 505 p	pm (should be same as above)	
Time of Calibration:	9:30m p	om (fill in and pick one)	
Background Concentr	ation Information:		
Background concentrati	on upwind of site:	1. 2 ppm	
Background concentrati	ons downwind of site:	Average: 2	_ppm
Location of backgroun	nd readings		
Upwind: _ West	end of WEX on	perimeter road	
		perimeter road	274.22
	Signature	he c	

Page _ 7_ of _ 7_



Project Number: 114697
Client: WMNY

9/12/19 Michael Casullo Date: Operator Name: High Acres Land Bil Facility: IE B18278B Instrument ID: 37-400150757-11 Exp. Date 2/12/2021 Zero Gas Lot Number: FBJ-15DA-500-3 Exp. Date 5/7/23 Calibration Gas Lot Number: 500 Calibration Gas Conc.: ppm 450 90% of Calib. Gas Conc.: ppm

 Trial No.
 Time to reach 90% gas value

 1
 3.18 seconds

 2
 3.96 seconds

 3
 seconds

 Average
 3.65 seconds

 NOTE: Must be < 30 seconds</td>

Trial No.	Meter Reading No. After Zero Gas *		Meter Reading After Methane Gas		Difference Between Calibration Gas and Meter Reading	
1	Ø	ppm	496	_ppm	_ 4	ppm
2	Ø	ppm	503	_ppm	_3	ppm
3	ø	ppm	501	_ppm	1	ppm

Average Difference: 2.67 ppm

Calibration Precision = Average Difference/Calibration Gas Conc. X 100% $= \frac{2.67}{\text{ppm}} \text{ ppm } / \frac{5.00}{\text{ppm}} \text{ x 100\%}$ $= \frac{0.75\%}{\text{ppm}} / \frac{5.00}{\text{ppm}} \text{ x 100\%}$

^{*} If results are > zero (0 ppm) then an internal calibration is required



Project Number:	11146097
Client:	yunu

General Information:
Date: 9[12]19
Operator Name: Michael Cas Ila
Facility: High teres Landfill
Instrument ID: TE B182788
Wind Direction: N NE E SE S SW W (circle one)
Approximate Wind Speed
General Weather: 63 °F.
clear, partly cloudy, evercas, (circle one or write in)
no precip., drizzle rain, snow,(circle one or write in)
Calibration Information:
Calibration Gas Conc.: 500 ppm
Conduct internal zero calibration?
Instrument reading after calibration:ppm (should be same as above)
Time of Calibration: pm (fill in and pick one)
Background Concentration Information:
1 10
Average: 175 ppm
Background concentrations downwind of site: 2.37 ppm
Location of background readings
Upwind: On permeter road in NW corner of Expansion
Downwind: In SE corner of Closed LF on perimeter road
Signature Control Control

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3

Project Number:	1146097		
	WMNY		

Date:	10/11/19	
Operator Name:	Britt Gebhara	<u> </u>
Facility:	High Acres	no carrinosis ir reinings and river
Instrument ID:	NF07163	(GHD)
Zero Gas Lot Number:	37-40015075	1-1 Exp. Date 2/12/2021
Calibration Gas Lot Number:	EBJ-150A-500.	11 Exp. Date 8/6/2023
Calibration Gas Conc.:	500	ppm
90% of Calib. Gas Conc.:	450	ppm
Trial No. Time to reach	90% gas value	
1 242	seconds	
2 2.22	seconds	
223	seconds	
Average 2.29	seconds NOTE	: Must be < 30 seconds
Mar D. No.	Matau Dandina	Difference Returnen
Meter Reading <u>Trial No.</u> After Zero Gas *	Meter Reading After Methane Gas	Difference Between Calibration Gas and Meter Reading
1 <u>O</u> ppm	504 ppm	4 ppm
2ppm	502 ppm	ppm

2.67 Average Difference:

= Average Difference/Calibration Gas Conc. X 100% Calibration Precision = 267 ppm / 500 ppm X 100% = .53 %

* If results are > zero (0 ppm) then an internal calibration is required



Project Number:	11146097-1901	

Client: Waste Management

Date:	•	9-2019
Operator N	lame:	Britt Gebharott
Facility:		High Acres LF
Instrument	ID:	6HD-09300
Zero Gas L	ot Number:	37-400150751-1 Exp. Date 2/12/21
Calibration	Gas Lot Number:	FBJ-150A-500-3 Exp. Date 5/7/23
Calibration	Gas Conc.:	
90% of Cal	lib. Gas Conc.:	<u>450</u> ppm
Trial No.	Time to reach	90% gas value
ı	4.72	seconds
2	4.26	seconds
3	315	seconds
Average	4.04	seconds NOTE: Must be < 30 seconds
<u>Trial No.</u>	Meter Reading After Zero Gas *	Meter Reading After Methane Gas Calibration Gas and Meter Reading
1	ppm	<u>497</u> ppm <u>3</u> ppm
2		499 ppm 1 ppm
3	ррт	499 ppm) ppm
	Averag	e Difference: 1.67 ppm
Cal	ibration Precision	= Average Difference/Calibration Gas Conc. X 100%
		$= 1.67 \text{ ppm} / 560 \text{ ppm } \times 100\%$

[•] If results are > zero (0 ppm) then an internal calibration is required



Project Number: 1114697

Client: Waste Management

General Information:
Date: 9/2019
Operator Name: Britt Gebbaroft
Facility: High Acres LF
Instrument ID: 6HD 09300
Wind Direction: N NE E SE SWW NW (circle one)
Approximate Wind Speed 3 mph 55W
General Weather: 63 of, clear, partly cloudy overcast, (circle one or write in)
o precipal drizzle, rain, snow, (circle one or write in)
Calibration Information:
Calibration Gas Conc.: 500 ppm
Conduct internal zero calibration? Yes No (circle one)
Instrument reading after calibration:ppm (should be same as above)
Time of Calibration: 10:20(am) pm (fill in and pick one)
Background Concentration Information:
Background concentration upwind of site: 2.6 ppm
Background concentrations downwind of site: Average: 3.35 ppm Average: 3.35 ppm
Location of background readings
Upwind: Next to Power Plant south of LF
Downwind: On road north of LF (north of cell 9)
Signature Breth John Co

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Project Number: 1146097

Client: WMNY

General Information:
Date: 10/11/19
Operator Name: Britt 6 ebhardt
Facility: High Acres
Instrument ID: NFO 7163
Wind Direction: N NE E SE S SW W NW (circle one)
Approximate Wind Speed 4 mph
General Weather; 3 °F, (clear) partly cloudy, overcast, (circle one or write in)
no precip., drizzle, rain, snow, (circle one or write in)
Calibration Information:
Calibration Gas Conc.: 500 ppm
Conduct internal zero calibration? Yes No (circle one)
Instrument reading after calibration: 502 ppm (should be same as above)
Time of Calibration: E:27 (m) pm (fill in and pick one)
Background Concentration Information:
Background concentration upwind of site: 1,81 ppm 2 2/
Background concentration upwind of site: 1753
Location of background readings
Upwind: West of railroad yard at SE corner of landfill
Downwind: In administration building parking lot
Signature But Jelland

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Attachment 2
Calibration Gas Certificates of Analysis



Airgus Northeast region Airgus USA, LLC 325 McCausland Court Cheshire, CT 06410-0000 Airgas com

CERTIFICATE OF BATCH ANALYSIS Grade of Product: ULTRA ZERO

Part Number:

AI UZ80A

Cylinder Analyzed: LL167126

113 - Cheshire (SAP) - CT

Laboratory: Analysis Date: Lot Number:

Feb 12, 2013

37-400150751-1

Reference Number: 37-400150751-1

81.0 CF

Cylinder Volume: Cylinder Pressure:

2000 PSIG

Valve Outlet: 590

Expiration Date: Feb 12, 2021

ANALYTICAL RESULTS

Component		Requested Purity		Certified Concentration	
AIR	<u>-</u>				
CO + CO2	<	1 PPM	<ldl< td=""><td>0.04 PPM</td><td></td></ldl<>	0.04 PPM	
THC	<	0.1 PPM	<ldl< td=""><td>0.1 PPM</td><td></td></ldl<>	0.1 PPM	
Percent Oxygen		20-22 %		21.00 %	
Moisture	<	2 PPM		0.062 PPM	

Cylinders in Batch:

LL167105, LL167110, LL167121, LL167126, LL167129, LL167138

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.



320 Scarlet Blvd. Oldsmar, FL 34677 (800) 910-0051 fax: (866) 755-8920 www.gascogas.com

CERTIFICATE OF ANALYSIS

Date: May 7, 2019 Order Number: 24155

Lot Number: FBJ-150A-500-3

Customer: Industrial Environmental

Use Before: 05/07/2023

Component Specification (+/- 5%) Analytical Result (+/- 2%)

Methane 500 RPM

Methane Air 500 PPM Balance 511 PPM Balance

Cylinder Size: 3.708 Cu. Ft. Contents: 105 Liter (EcoSmart)

Valve: 5/8" -18UNF (C-10) Pressure: 1200 psig

The calibration gas prepared by Gasco is considered a certified standard. It is prepared by gravimetric, or partial pressure techniques. The calibration standard provided is certified against Gasco's G.M.I.S. (Gas Manufacturer's Intermediate Standard) which is either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

Analyst:

Offen Eakins
Hoten Eakins



320 Scarlet Blvd. Oldsmar, FL 34677 (800) 910-0051 fax: (866) 755-8920 www.gascogas.com

CERTIFICATE OF ANALYSIS

Date: August 6, 2019 Order Number: 24452

Lot Number: EBJ-150A-500-11

Customer: Industrial Environmental

Use Before: 08/06/2023

Component

Specification (+/- 5%)

Analytical Result (+/- 2%)

Methane Air

500 PPM

Balance

508.5 PPM

Balance

Cylinder Size: 3.708 Cu. Ft. Contents: 105 Liter (EcoSmart)

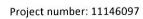
Valve: 5/8" -18UNF (C-10) Pressure: 1200 psig

The calibration gas prepared by Gasco is considered a certified standard. It is prepared by gravimetric, or partial pressure techniques. The calibration standard provided is certified against Gasco's G.M.I.S. (Gas Manufacturer's Intermediate Standard) which is either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

Analyst:

Ophu Eakins Aften Eakins

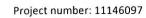
Attachment 3 Monitoring Exceedance Description Forms







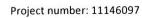
		echnician Initials:			
Instrument reading - Background reading:	1,846 pp	pm - 2.00	_ppm = _	1,844	_ ppm
Location of monitored exceedance (include desc West GW-137	ription of field m	narker used):			
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitor			ease gas colle	ction in	
Replaced Pump					
Remonitor location within 10 calendar days o	f initial avacada	maar			
Remonitor location within 10 calendar days o	i mittai exceetta	ince.			
	Monitoring To	echnician Initials:	BG		
Instrument reading - Background reading:	84.30 pp	pm - 3.35	_ppm =	80.95	_ppm
If 10-day remonitoring shows an exceedance, de	soriba additional	corrective action	takan hafara		
remonitoring again within 10 days:	serioc additional	corrective action	taken before		
n/a					
If the 10 day remonitoring is <500 ppm, remonit					
Date: 10/11/19 Time: 10:06 Ald Instrument reading - Background reading:		echnician Initials: pm - 3.36	$\frac{BG}{ppm} =$	138.6	ppm
mstrument reading - Dackground reading.	P	pm - <u>3.50</u>	_ ^{ppm} _	130.0	_ ppiii
If the 1 month remonitoring is <500 ppm, resum-	e normal quarterl	ly monitoring.			
If the 1 month remonitoring shows an exceedance	e, describe addit	ional corrective ac	ction taken bet	fore	
remonitoring again within 10 days:					
n/a	62 1				
Remonitor location within 10 calendar days o	1 2nd exceedance	<u>ce:</u>			
Date: Time:	Monitoring To	echnician Initials:			
Instrument reading - Background reading:	p	pm	ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remonit	or 1 month from	initial exceedance			
		echnician Initials:			
Instrument reading - Background reading:	pı	pm	ppm =		_ppm
If the 1 month remonitoring is <500 ppm, resum	a normal quarter	ly monitoring			
If the 1 month remonitoring shows an exceedance		,	etion taken he	fore	
remonitoring again within 10 days:	e, describe addit	nonal corrective ac	tion taken be	ioic	
(use additional forms if necessary)*					
*If remonitoring shows 3 <u>consecutive</u> exceedance must be installed within 120 days of <u>initial</u> exceedance.					
Administrator for approval. Further monitoring	is not necessary	until the remedy is	s completed		
	111	Macro	2011	and the second	
	Signature	we were Lan	Leonorde T	and the same of th	1





<u>Initial Monitoring Exceedance:</u>

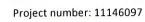
Date: 09/11/19 Time: 12:58 F Instrument reading - Background reading:	Monitoring Technician Init		748	_ppm
Location of monitored exceedance (include des				
Describe cover maintenance or adjustments to t		increase gas col	lection in	
vicinity of measured exceedance before remoni	toring in 10 days:			
Installed Liner				
Remonitor location within 10 calendar days	of initial exceedance:			
00/20/10	M Manifestor Tarkatalan Indi	dalar DC		
Date: 09/20/19 Time: 11:35 A Instrument reading - Background reading:			121.65	ppm
mstrument reading - Dackground reading.	ppiii	<u>э</u> ррш –	121.03	_ ppm
If 10-day remonitoring shows an exceedance, dremonitoring again within 10 days:	escribe additional corrective ac	tion taken before		
n/a				
If the 10 day remonitoring is <500 ppm, remon	itor 1 month from initial exceed	lance:		
	M Monitoring Technician Init			
Instrument reading - Background reading:	4.2 ppm - 3.3	6 ppm =	0.8	_ ppm
If the 1 month remonitoring is <500 ppm, resur	fari, T			
If the 1 month remonitoring shows an exceedar remonitoring again within 10 days: n/a	ice, describe additional correcti	ve action taken b	efore	
Remonitor location within 10 calendar days	of 2nd exceedance:			
	M :- : T 1 : : I :	i.r		
Date: Time: Instrument reading - Background reading:	Monitoring Technician Init	ppm =	-	ppm
mstrument reading - Dackground reading.	рриг	ррш		_ ppin
If the 10 day remonitoring is <500 ppm, remon Date: Time:	itor 1 month from initial exceed Monitoring Technician Init			
Instrument reading - Background reading:				_ ppm
16.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.				
If the 1 month remonitoring is <500 ppm, resur				
If the 1 month remonitoring shows an exceedar remonitoring again within 10 days:	ice, describe additional correcti	ve action taken b	efore	
(use additional forms if necessary)*				
*If remonitoring shows 3 <u>consecutive</u> exceedar must be installed within 120 days of <u>initial</u> exc Administrator for approval. Further monitoring	eedance or alternative remedies	timelines may b		
	Married and	a Could	/_	
	Signature	14 Centl	Charles	





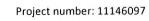
<u>Initial Monitoring Exceedance:</u>

Date: 09/11/19 Time: 12:32 PM Instrument reading - Background reading:		Technician Initials: ppm - 2.00		755	_ppm
Location of monitored exceedance (include descriptions SC-002	otion of field	marker used):			
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitori Installed Liner			ease gas collec	tion in	
Remonitor location within 10 calendar days of i	initial excee	dance:			
Date: 09/20/19 Time: 11:28 AM Instrument reading - Background reading:	-	Technician Initials: ppm - 3.35	BG ppm =	0.00	_ppm
If 10-day remonitoring shows an exceedance, descremonitoring again within 10 days:	ribe addition	nal corrective action	taken before		
n/a					
	Monitoring	Technician Initials:	BG	0.6	- 111
Instrument reading - Background reading:	4.0	ppm - 3.36	_ppm =	0.6	_ ppm
If the 1 month remonitoring is <500 ppm, resume in the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:	describe add	ditional corrective ac	ction taken before	ore	
Date: Time:	Monitoring	Technician Initials:			
Instrument reading - Background reading:		ppm	ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remonitor Date: Time:		m initial exceedance Technician Initials:			
Instrument reading - Background reading:		ppm	ppm =		_ppm
If the 1 month remonitoring is <500 ppm, resume	normal quart	terly monitoring.			
If the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:	, describe ad	ditional corrective a	ction taken bef	ore	
(use additional forms if necessary)*					
*If remonitoring shows 3 <u>consecutive</u> exceedances must be installed within 120 days of <u>initial</u> exceed Administrator for approval. Further monitoring is	ance or alter	native remedies/time	elines may be s		
	Signature	Mach	7 Couldo	and the same of th	





Date: 09/11/19 Time: 4:35 PM	Monitoring	Technician Initia	als: BS		
Instrument reading - Background reading:	1,215	ppm - 2.00	ppm =	1,213	_ ppm
Location of monitored exceedance (include descrip	otion of field	l marker used):			
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitori			ncrease gas colle	ection in	
Added Cover Dirt					
Remonitor location within 10 calendar days of i	initial excee	dance:			
			1 DC		
Date: 09/20/19 Time: 12:30 PM				0.00	nnm
Instrument reading - Background reading:	2.60	ppm - 3.35	ppm =	0.00	_ ppm
If 10-day remonitoring shows an exceedance, desc	ribe addition	nal corrective act	on taken before		
remonitoring again within 10 days:					
n/a					
IS al. 10 de les constituciones in a 500 mars accompliant	. 1 month fu	un initial avacade			
If the 10 day remonitoring is <500 ppm, remonitor Date: 10/11/19 Time: 9:55 AM					
Instrument reading - Background reading:		ppm - 3.36		1.1	_ ppm
YC 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	10, 100				
If the 1 month remonitoring is <500 ppm, resume			a antique talegue la	· Como	
If the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:	describe ad	ditional correctiv	e action taken of	eiore	
n/a					
Remonitor location within 10 calendar days of	2nd exceed:	ance:			
			•		
Date: Time: Instrument reading - Background reading:	_ Monitoring	Technician Initi	als: ppm =		ppm
mistrument reading - Background reading.	-	_ppm	ppin	1	
If the 10 day remonitoring is <500 ppm, remonitor					
Date: Time:		g Technician Initi		- 100 3 10	
Instrument reading - Background reading:	_	_ppm	ppm =		_ ppm
If the 1 month remonitoring is <500 ppm, resume	normal quar	terly monitoring.			
If the 1 month remonitoring shows an exceedance,	, describe ad	ditional correctiv	e action taken b	efore	
remonitoring again within 10 days:					
(use additional forms if necessary)*					
*If remonitoring shows 3 consecutive exceedances	s within a au	arterly period a r	new well or other	collection	device
must be installed within 120 days of <u>initial</u> exceed Administrator for approval. Further monitoring is	lance or alter	rnative remedies/	timelines may be		
		Mary 1	a Could	,	
	Signature	routed	LA Could	-	



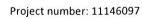


Date: 09/11/19 Time: 11:00 AM Instrument reading - Background reading:	Carrier Contract Cont	Technician		MC ppm =	1,998	_ppm
Location of monitored exceedance (include descrip	ption of field	d marker use	d):			
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitori		-	s to incre	ease gas colle	ection in	
Installed Liner						
Remonitor location within 10 calendar days of i	initial excee	edance:				
00/20/10		T. 1		D.C.		
Date: 09/20/19 Time: 11:17 AM Instrument reading - Background reading:		ppm -			3.95	_ppm
If 10 day as well to since above an array days at	alle a addition	1		alean hafana		
If 10-day remonitoring shows an exceedance, desc remonitoring again within 10 days:	ribe additio	nai corrective	e action t	aken before		
n/a						
If the 10 day remonitoring is <500 ppm, remonitor Date: 10/11/19 Time: 9:28 AM						
Date: 10/11/19 Time: 9:28 AM Instrument reading - Background reading:		ppm		ppm =	4.3	_ppm
If the 1 month remonitoring is <500 ppm, resume i	normal quar	terly monitor	ing.			
If the 1 month remonitoring shows an exceedance,				tion taken be	fore	
remonitoring again within 10 days:						
n/a						
Remonitor location within 10 calendar days of 2	2nd exceed:	ance:				
Date: Time:	Monitoring	Technician	Initials:			
the state of the s				ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remonitor	1 month fro	ım initial eye	reedance	•		
Date: Time:						
Instrument reading - Background reading:		_ppm		ppm =		_ppm
If the 1 month remonitoring is <500 ppm, resume	normal quar	terly monitor	ing.			
If the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:	describe ad	ditional corre	ective ac	tion taken be	efore	
remonitoring again within 10 days.						
(use additional forms if necessary)*						
*If remonitoring shows 3 <u>consecutive</u> exceedances must be installed within 120 days of <u>initial</u> exceed Administrator for approval. Further monitoring is	ance or alter	native remed	dies/time	lines may be		
	Signature	Ma	44	Could	g and the second	



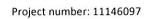


Date: 09/11/19 Time: 3:11 F	PM Monitoring T	echnician Initials:	BC		
Instrument reading - Background reading:			Market State of the State of th	998	_ppm
Location of monitored exceedance (include de HAHC-1116	scription of field n	narker used):			
Describe cover maintenance or adjustments to vicinity of measured exceedance before remon			ease gas col	lection in	
Repaired Liner					
Remonitor location within 10 calendar days	s of initial exceeda	ance:			
Date: 09/20/19 Time: 12:43	PM Monitoring T	echnician Initials:	BG		
Instrument reading - Background reading:				87.65	_ ppm
If 10-day remonitoring shows an exceedance, remonitoring again within 10 days:	describe additional	l corrective action	taken before		
n/a					
If the 10 day remonitoring is <500 ppm, remon	nitor 1 month from	initial exceedance	: "		
	AM Monitoring T			_	
Instrument reading - Background reading:	<u>167.0</u> p	pm - 3.36	_ppm =	163.6	_ ppm
If the 1 month remonitoring shows an exceeda remonitoring again within 10 days: n/a	ince, describe addit	tional corrective ac	ction taken b	efore	
Remonitor location within 10 calendar days	s of 2nd exceedan	ce:			
Date: Time:	Monitoring T	Cachnician Initials:			
Instrument reading - Background reading:	p	ppm -	ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remo	nitor 1 month from Monitoring T				
Instrument reading - Background reading:		opm -		Av Horestee or to	_ ppm
If the 1 month remonitoring is <500 ppm, resu	ıme normal quarter	rly monitoring.			
If the 1 month remonitoring shows an exceeda remonitoring again within 10 days:	nce, describe addi	tional corrective ac	ction taken b	efore	
(use additional forms if necessary)*					
*If remonitoring shows 3 <u>consecutive</u> exceeda must be installed within 120 days of <u>initial</u> exc Administrator for approval. Further monitoring	ceedance or alterna	ative remedies/time	elines may b		
	Signature	Mall	9 Could	to	



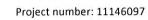


Date: 09/12/19 Time: 11:50 AM Instrument reading - Background reading:		Technician		MC ppm =	>10,000	_ppm
Location of monitored exceedance (include descri West GW-902	ption of field	l marker use	d):			
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitor			ls to incre	ease gas col	lection in	
Explosed Liner; Taped						
Remonitor location within 10 calendar days of	initial excee	dance:				
Date: 09/20/19 Time: 12:09 PM	Monitoring	Technician	Initials:	BG		
Instrument reading - Background reading:		ppm		ppm =	43.25	_ppm
If 10-day remonitoring shows an exceedance, descremonitoring again within 10 days:	cribe addition	nal correctiv	e action t	taken before		
n/a						
If the 10 day remonitoring is <500 ppm, remo						
	2.2				0.0	_ppm
If the 1 month remonitoring is <500 ppm, resume If the 1 month remonitoring shows an exceedance remonitoring again within 10 days:	, describe ad	ditional corr		tion taken b	efore	
Date: Time:	Monitoring	Technician	Initials:			
Instrument reading - Background reading:		ppm		ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remo		om initial exc Technician				
Instrument reading - Background reading:		_ppm	-	ppm =	1	_ppm
If the 1 month remonitoring is <500 ppm, resume	normal quar	terly monito	ring.			
If the 1 month remonitoring shows an exceedance remonitoring again within 10 days:	, describe ad	ditional corr	ective ac	tion taken b	efore	
(use additional forms if necessary)*						
*If remonitoring shows 3 <u>consecutive</u> exceedance must be installed within 120 days of <u>initial</u> exceed Administrator for approval. Further monitoring is	dance or alter	native reme	dies/time	lines may b		
	Signature	100	CP G	Conle	·	





Date:09/12/19	Monitoring Technician Initials 1,500 ppm - 2.00		198 ppm
Location of monitored exceedance (include descri West GW-150	ption of field marker used):		
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitor		rease gas collection	in
Installed Liner			
Remonitor location within 10 calendar days of	initial exceedance:		
Data: 00/20/10 Time: 1:10 PM	Manitaring Tashniaian Initials	D.C.	
Date: 09/20/19 Time: 1:10 PM Instrument reading - Background reading:	Monitoring Technician Initials 135.00 ppm - 3.35		1.65 ppm
If 10-day remonitoring shows an exceedance, descremonitoring again within 10 days:	cribe additional corrective action	taken before	
n/a			
ICA 10 1	1 4 6 14 4 1 1		
If the 10 day remonitoring is <500 ppm, remonitor Date: 10/11/19 Time: 10:00 AM	Monitoring Technician Initials		
Instrument reading - Background reading:	2.1 ppm - 3.36		.0 ppm
If the 1 month remonitoring is <500 ppm, resume	normal quarterly monitoring		
If the 1 month remonitoring shows an exceedance remonitoring again within 10 days:		ction taken before	
n/a			
Remonitor location within 10 calendar days of	2nd exceedance:		
Date: Time:	Monitoring Technician Initials		
Instrument reading - Background reading:	ppm	ppm =	ppm
If the 10 day remonitoring is <500 ppm, remonitor Date: Time:	r I month from initial exceedanc Monitoring Technician Initials		
Instrument reading - Background reading:	ppm -	ppm =	ppm
10.1			
If the 1 month remonitoring is <500 ppm, resume		-C	
If the 1 month remonitoring shows an exceedance remonitoring again within 10 days:	, describe additional corrective a	ction taken before	
(use additional forms if necessary)*			
*If remonitoring shows 3 <u>consecutive</u> exceedance must be installed within 120 days of <u>initial</u> exceed Administrator for approval. Further monitoring is	lance or alternative remedies/time	elines may be subn	
	Steel 6	7 Coullo	





Date: 09/12/19 Time: 12:36 PM Instrument reading - Background reading:	• Distriction of the second			MC ppm =	1,060	_ppm
Location of monitored exceedance (include descrip East GW-10R	otion of field	l marker used):				
Describe cover maintenance or adjustments to the vicinity of measured exceedance before remonitori			o incre	ase gas colle	ection in	
Added Cover Dirt						
Remonitor location within 10 calendar days of i	initial excee	dance:				
Date: 09/20/19 Time: 12:29 PM	Monitoring	Technician In	itials:	BG		
Instrument reading - Background reading:	•	ppm3.		ppm =	290.65	_ppm
If 10-day remonitoring shows an exceedance, descremonitoring again within 10 days:	ribe addition	nal corrective a	ection t	aken before		
n/a						
If the 10 day remonitoring is <500 ppm, remonitor						
Date: 10/11/19 Time: 10:14 AM Instrument reading - Background reading:	-	ppm - 3.		ppm =	7.3	_ppm
If the 1 month remonitoring is <500 ppm, resume r	normal quart	terly monitorin	σ			
If the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:			tive ac	tion taken be	efore	
Date: Time:	Monitorina	Technician In	itiola			
Date: Time: Instrument reading - Background reading:	_ Monitoring		iitiais.	ppm =		_ppm
If the 10 day remonitoring is <500 ppm, remonitor Date:		om initial excee Technician In				
Instrument reading - Background reading:		ppm		ppm =		_ ppm
If the 1 month remonitoring is <500 ppm, resume r	normal quar	terly monitorin	ıg.			
If the 1 month remonitoring shows an exceedance, remonitoring again within 10 days:	describe ad	ditional correc	tive ac	tion taken be	efore	
(use additional forms if necessary)*						
*If remonitoring shows 3 <u>consecutive</u> exceedances must be installed within 120 days of <u>initial</u> exceeda Administrator for approval. Further monitoring is	ance or alter	native remedie ry until the rem	es/time nedv is	lines may be completed	submitted	
	Signature	Mu	14	Could	g-at-printer?	

Hasek, Thomas

From: Bryan.Szalda@ghd.com

Sent: Friday, November 8, 2019 4:26 PM

To: Kharroubi, Michele (DEC)
Cc: Miller, Martin; Hasek, Thomas

Subject: [EXTERNAL] Q3 Surface Monitoring Report - High Acres Landfill

Attachments: 11146097Hasek-7-Final.pdf

Good afternoon Michele: Attached is the final Q3 Surface Monitoring Report for the High Acres Landfill. If you have any questions please let us know.

Thanks - Bryan

Bryan P. Szalda

GHD

T: 716-297-6150 | M: 716-348-6344| E: <u>bryan.szalda@ghd.com</u> 2055 Niagara Falls Boulevard Suite 3 Niagara Falls NY 14304 | <u>www.ghd.com</u>

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