Tai Michale 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
2055 Niagara Falls Boulevard Niagara Falls New York 14304 USA
T 716 297 6150 **F** 716 297 2265 **W** www.ghd.com

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

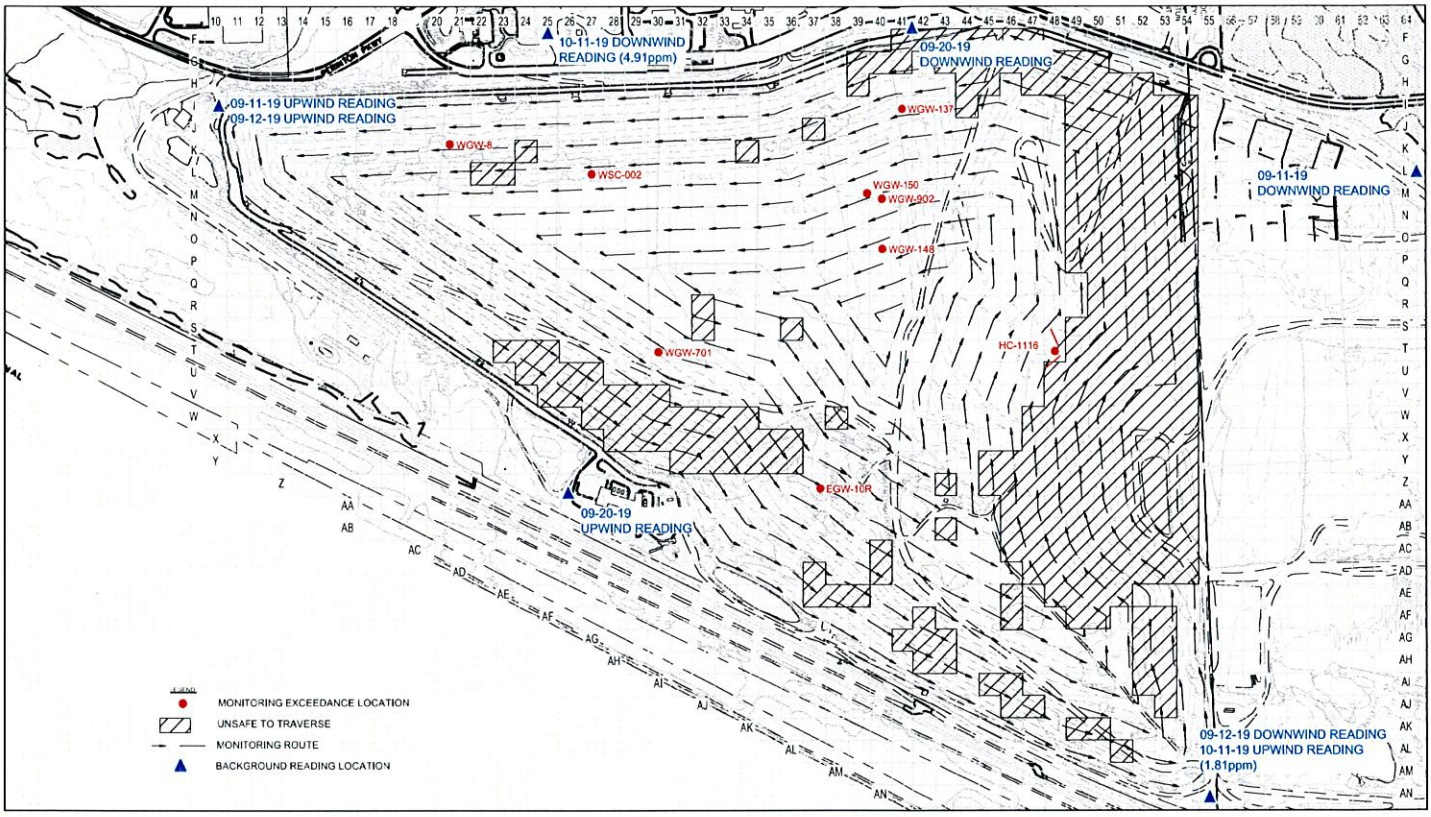
Steven D. Wilsey
Principal

Bryan P. Szalda
Engineer

SDW/cs/7

Encl.

cc: M. Miller, WMNY
M. Casullo, GHD



N

0 200' 400' 800'

WASTE MANAGEMENT OF NEW YORK - HIGH ACRES LANDFILL
FAIRPORT, NEW YORK
Q3 2019 SURFACE EMISSION MONITORING
GRID LOCATIONS

11146097
Oct 28, 2019

FIGURE 1

Table 1

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

Year: 2019 Quarter: 3

Initial Monitoring Event					10-day Follow-up Event		Additional Corrective Actions	Additional 10-day Follow-up Event		1-Month Follow-up Event	
Monitoring Date	Landfill Name	Location ID	Concentration (ppm)	Initial Corrective Action	Monitoring Date	Concentration (ppm)	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	Exposed 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

Attachment 1
Calibration Sheets

Project Number: 11146097

Client: WMNY

Date: 9/11/19

Operator Name: Michael Cerullo

Facility: High Acres Landfill

Instrument ID: NF 07163

Zero Gas Lot Number: 37-4001507S1-11 Exp. Date 2/12/21

Calibration Gas Lot Number: FBS-150A-500-3 Exp. Date 5/7/23

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

Trial No.	Time to reach 90% gas value
1	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
1	0 ppm	502 ppm	2 ppm
2	0 ppm	503 ppm	3 ppm
3	0 ppm	503 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

Project Number: 1114697

Client: WMNT

General Information:

Date: 9/11/19

Operator Name: Michael Cassetta

Facility: High Acres Landfill

Instrument ID: NF 07163

Wind Direction: N NE (E) SE S SW (W) NW (circle one)

Approximate Wind Speed 8-10 mph

General Weather: 70 °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: 503 ppm (should be same as above)

Time of Calibration: 9:00 (am) pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 1.2 ppm

Background concentrations downwind of site: 2.8 ppm

Average: 2 ppm

Location of background readings

Upwind: West end of WEX on perimeter road

Downwind: East of cell 12 on perimeter road

Signature _____

Project Number: 11146097

Client: WMNY

Date: 9/11/19

Operator Name: Bryan Szalda

Facility: High Acres Landfill

Instrument ID: GHD 09301

Zero Gas Lot Number: 37-4001507S7-11 Exp. Date 2/12/21

Calibration Gas Lot Number: FBS-150A-500-3 Exp. Date 5/7/23

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

Trial No.	Time to reach 90% gas value
1	10.8 seconds
2	11.3 seconds
3	11.6 seconds
Average	11.23 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
1	0 ppm	499 ppm	-1 ppm
2	0 ppm	496 ppm	-4 ppm
3	0 ppm	501 ppm	1 ppm

Average Difference: -1.33 ppm

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

= -1.33 ppm / 500 ppm X 100%

= -0.27 %

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

Project Number: 11146097

Client: WMNY

General Information:

Date: 9/11/14

Operator Name: Bryan Szalda

Facility: High Acres Landfill

Instrument ID: GHD 09301

Wind Direction: N NE E SE S SW W NW (circle one)

Approximate Wind Speed 8-10 mph

General Weather: 70 °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: 499 ppm (should be same as above)

Time of Calibration: 9:45 am pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 1.2 ppm

Background concentrations downwind of site: 2.8 ppm

Average: 2 ppm

Location of background readings

Upwind: West end of WEX on perimeter road

Downwind: East of cell 12 on perimeter road

Signature Bryan P Szalda

Project Number: 1114609?

Client: WMNY

Date: 9/11/19

Operator Name: Benson Chen

Facility: High Acres Landfill

Instrument ID: JE B18278B

Zero Gas Lot Number: 37-4001507S1-11 Exp. Date 2/12/21

Calibration Gas Lot Number: FBS-150A-500-3 Exp. Date 5/7/23

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

Trial No.	Time to reach 90% gas value
1	6.74 seconds
2	6.43 seconds
3	5.11 seconds
Average	6.09 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
1	0 ppm	495 ppm	-5 ppm
2	0 ppm	497 ppm	-3 ppm
3	0 ppm	523 ppm	23 ppm

Average Difference: 5 ppm

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

= 5 ppm / 500 ppm X 100%

= 1 %

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

Project Number: 11146097

Client: WMNY

General Information:

Date: 9/11/19

Operator Name: Benson Chen

Facility: High Acres Landfill

Instrument ID: IE B182783

Wind Direction: N NE E SE S SW (W) NW (circle one)

Approximate Wind Speed 8-10 mph

General Weather: 70 °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: 505 ppm (should be same as above)

Time of Calibration: 9:30 (am) pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 1.2 ppm

Background concentrations downwind of site: 2.8 ppm

Average: 2 ppm

Location of background readings

Upwind: West end of WEX on perimeter road

Downwind: East of cell 12 on perimeter road

Signature _____

Project Number: 11146097

Client: WMNY

Date: 9/12/19

Operator Name: Michael Casullo

Facility: High Acres Landfill

Instrument ID: IE B182788

Zero Gas Lot Number: 37-400150751-11 Exp. Date 2/12/2021

Calibration Gas Lot Number: FBS-150A-500-3 Exp. Date 5/7/23

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

Trial No.	Time to reach 90% gas value
1	3.18 seconds
2	3.96 seconds
3	3.82 seconds
Average	3.65 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
1	0 ppm	496 ppm	4 ppm
2	0 ppm	503 ppm	3 ppm
3	0 ppm	501 ppm	1 ppm

Average Difference: 2.67 ppm

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

= 2.67 ppm / 500 ppm X 100%

= 0.5 %

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

Project Number: 11146097

Client: WMNY

General Information:

Date: 9/12/19

Operator Name: Michael Costello

Facility: High Acres Landfill

Instrument ID: IE 818278B

Wind Direction: N NE E SE S SW W (NW) (circle one)

Approximate Wind Speed ~10 mph mph

General Weather: 63 °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: 500 ppm (should be same as above)

Time of Calibration: 10 :15 (am) pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 1.12 ppm

Background concentrations downwind of site: 2.37 ppm

Average: 1.75 ppm

Location of background readings

Upwind: On perimeter road in NW corner of Expansion

Downwind: In SE corner of Closed LF on perimeter road

Signature _____

Project Number: 11146097

Client: WMNY

Date: 10/11/19

Operator Name: Britt Gebhardt

Facility: High Acres

Instrument ID: NFO 7163 (GHD)

Zero Gas Lot Number: 37-4001507S1-1 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	222	seconds
3	223	seconds
Average	229	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
1	0 ppm	504 ppm	4 ppm
2	0 ppm	502 ppm	2 ppm
3	0 ppm	502 ppm	2 ppm

Average Difference: 2.67 ppm

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

= 2.67 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 Name: Britt Gebhardt

Facility: High Acres LF

Instrument ID: GHD-09300

Zero Gas Lot 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.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

Trial No.	Time to reach 90% gas value
1	4.72 seconds
2	4.26 seconds
3	3.15 seconds
Average	4.04 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
1	0 ppm	497 ppm	3 ppm
2	0 ppm	499 ppm	1 ppm
3	0 ppm	499 ppm	1 ppm

Average Difference: 1.67 ppm

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

= 1.67 ppm / 500 ppm X 100%

= .3 %

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

Project Number: 11146097

Client: Waste Management

General Information:

Date: 9/20/19

Operator Name: Britt Gebhardt

Facility: High Acres LF

Instrument ID: GHD 09300

Wind Direction: N NE E SE S (SW) W NW (circle one)

Approximate Wind Speed 3 mph SSW

General Weather: 63 °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: 499 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: 4.1 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 Britt Gebhardt

Project Number: 11146097

Client: WMNY

General Information:

Date: 10/11/19

Operator Name: Britt Gebhardt

Facility: High Acres

Instrument ID: NF07163

Wind Direction: N NE E (SE) S SW W NW (circle one)

Approximate Wind Speed 4 mph

General Weather: 39 °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: 8:27 (am) pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 1.81 ppm

Background concentrations downwind of site: 4.91 ppm

Average: 3.36 ppm

Location of background readings

Upwind: West of railroad yard at SE corner of landfill

Downwind: In administration building parking lot

Signature Britt Gebhardt

Attachment 2
Calibration Gas Certificates of Analysis

Airgas
an Air Liquide company

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

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: ULTRA ZERO

Part Number:	AI UZ80A	Reference Number:	37-400150751-1
Cylinder Analyzed:	LL167126	Cylinder Volume:	81.0 CF
Laboratory:	113 - Cheshire (SAP) - CT	Cylinder Pressure:	2000 PSIG
Analysis Date:	Feb 12, 2013	Valve Outlet:	590
Lot Number:	37-400150751-1		

Expiration Date: Feb 12, 2021

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
AIR		
CO + CO2	< 1 PPM	<LDL 0.04 PPM
THC	< 0.1 PPM	<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.

Approved for Release

GASCO AFFILIATES, LLC.

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 PPM	511 PPM
Air	Balance	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:

Clifton Eakins
Clifton Eakins

GASCO AFFILIATES, LLC.

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	500 PPM	508.5 PPM
Air	Balance	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:

Afton Eakins

Afton Eakins

Attachment 3
Monitoring Exceedance Description Forms

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 3:26 PM Monitoring Technician Initials: MC
Instrument reading - Background reading: 1,846 ppm - 2.00 ppm = 1,844 ppm

Location of monitored exceedance (include description of field marker used):
West GW-137

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Replaced Pump

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 12:02 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 84.30 ppm - 3.35 ppm = 80.95 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 10:06 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 142.0 ppm - 3.36 ppm = 138.6 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 12:58 PM Monitoring Technician Initials: BC
Instrument reading - Background reading: 750 ppm - 2.00 ppm = 748 ppm

Location of monitored exceedance (include description of field marker used):
West GW-8

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Installed Liner

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 11:35 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 125.00 ppm - 3.35 ppm = 121.65 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:35 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 4.2 ppm - 3.36 ppm = 0.8 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 12:32 PM Monitoring Technician Initials: BS
Instrument reading - Background reading: 757 ppm - 2.00 ppm = 755 ppm

Location of monitored exceedance (include description of field marker used):
West SC-002

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Installed Liner

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 11:28 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 2.30 ppm - 3.35 ppm = 0.00 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:16 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 4.0 ppm - 3.36 ppm = 0.6 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 4:35 PM Monitoring Technician Initials: BS
Instrument reading - Background reading: 1,215 ppm - 2.00 ppm = 1,213 ppm

Location of monitored exceedance (include description of field marker used):
West GW-148

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Added Cover Dirt

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 12:30 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 2.60 ppm - 3.35 ppm = 0.00 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:55 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 4.5 ppm - 3.36 ppm = 1.1 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 11:00 AM Monitoring Technician Initials: MC
Instrument reading - Background reading: 2,000 ppm - 2.00 ppm = 1,998 ppm

Location of monitored exceedance (include description of field marker used):
West GW-701

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Installed Liner

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 11:17 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 7.30 ppm - 3.35 ppm = 3.95 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:28 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 7.7 ppm - 3.36 ppm = 4.3 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/11/19 Time: 3:11 PM Monitoring Technician Initials: BC
Instrument reading - Background reading: 1,000 ppm - 2.00 ppm = 998 ppm

Location of monitored exceedance (include description of field marker used):
HAHC-1116

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Repaired Liner

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 12:43 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 91.00 ppm - 3.35 ppm = 87.65 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:45 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 167.0 ppm - 3.36 ppm = 163.6 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/12/19 Time: 11:50 AM Monitoring Technician Initials: MC
Instrument reading - Background reading: >10,000 ppm - 2.00 ppm = >10,000 ppm

Location of monitored exceedance (include description of field marker used):
West GW-902

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Explosed Liner; Taped

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 12:09 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 46.60 ppm - 3.35 ppm = 43.25 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 9:57 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 2.2 ppm - 3.36 ppm = 0.0 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/12/19 Time: 12:00 PM Monitoring Technician Initials: MC
Instrument reading - Background reading: 1,500 ppm - 2.00 ppm = 1,498 ppm

Location of monitored exceedance (include description of field marker used):
West GW-150

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Installed Liner

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 1:10 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 135.00 ppm - 3.35 ppm = 131.65 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 10:00 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 2.1 ppm - 3.36 ppm = 0.0 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

Project number: 11146097

Client: WMNY

Initial Monitoring Exceedance:

Date: 09/12/19 Time: 12:36 PM Monitoring Technician Initials: MC
Instrument reading - Background reading: 1,062 ppm - 2.00 ppm = 1,060 ppm

Location of monitored exceedance (include description of field marker used):
East GW-10R

Describe cover maintenance or adjustments to the vacuum of adjacent wells to increase gas collection in vicinity of measured exceedance before remonitoring in 10 days:

Added Cover Dirt

Remonitor location within 10 calendar days of initial exceedance:

Date: 09/20/19 Time: 12:29 PM Monitoring Technician Initials: BG
Instrument reading - Background reading: 294.00 ppm - 3.35 ppm = 290.65 ppm

If 10-day remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

n/a

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:
Date: 10/11/19 Time: 10:14 AM Monitoring Technician Initials: BG
Instrument reading - Background reading: 10.7 ppm - 3.36 ppm = 7.3 ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

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 1 month from initial exceedance:
Date: _____ Time: _____ Monitoring Technician Initials: _____
Instrument reading - Background reading: _____ ppm - _____ ppm = _____ ppm

If the 1 month remonitoring is <500 ppm, resume normal quarterly monitoring.

If the 1 month remonitoring shows an exceedance, describe additional corrective action taken before remonitoring again within 10 days:

(use additional forms if necessary)*

*If remonitoring shows 3 consecutive exceedances within a quarterly period a new well or other collection device must be installed within 120 days of initial exceedance or alternative remedies/timelines may be submitted to the Administrator for approval. Further monitoring is not necessary until the remedy is completed

Signature _____

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
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