



**CONESTOGA-ROVERS
& ASSOCIATES**

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September 24, 2009

Reference No. 055710

Mr. Thomas Lewis
District Manager
WMNY - CHAFFEE LANDFILL
10860 Olean Road
Chaffee, NY 14030

Dear Mr. Lewis:

Re: Third Quarter Surface Monitoring at Chaffee Landfill
NYSDEC Permit ID No.: 9-1642-00001/00013

On July 27, 2009 Conestoga-Rovers & Associates, Inc. (CRA) conducted the third quarter surface monitoring at the Waste Management of New York, LLC - Chaffee Landfill facility located in Sardinia, New York. The monitoring was conducted in accordance with Code of Federal Regulations (CFR) Title 40, Part 60, Appendix A, Method 21.

Mr. Bryan Szalda of CRA 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. Attachment 1 contains the monitoring instrument performance evaluation and calibration documentation. Mr. Bryan Szalda was accompanied with Mr. Al Zylinski of the New York State Department of Environmental Conservation (NYSDEC) during the surface monitoring. The monitoring followed a serpentine pattern at 30-meter intervals, as required in 40 CFR Part 60 Subpart 60.753, and generally followed the pattern described in the Surface Monitoring Plan for the facility.

The following location could not be monitored during the surface scan due to safety hazards present in the area:

- The southern portion of the Original Landfill is being prepared for final cap construction. During the surface scan, a number of trucks and heavy equipment were operating on the southern portion of the landfill. In addition, the soil in this region was unstable and unlevel, making it very difficult to traverse this area.

Figure 1 shows the area that could not be monitored during this quarterly period.

During the surface scan, three exceedances were observed at the following locations:

<i>Location</i>	<i>Reading (ppm above background)</i>
Leachate Tank #5	> 10,000
Air Pump Location #4	> 10,000
Base of Well 30R	2,887

Equal
Employment Opportunity
Employer

REGISTERED COMPANY FOR
ISO 9001
ENGINEERING DESIGN



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Each of these areas were marked with a red flag and the site Operations Manager was immediately notified. Figure 1 shows the locations of the monitoring exceedances and Attachment 2 contains the data sheets giving descriptions of the exceedances and the follow-up monitoring. The following corrective actions were implemented immediately to address the exceedances:

- Valve and vacuum adjustments were made to Leachate Tank #5 and GW-18 to address the exceedances at Leachate Tank #5 and Air Pump Location #4 (GW-18 is the closest gas well to these locations); and
- Valve and vacuum adjustments were made to GW-30 to address the exceedance at this location.

Each of the three locations was re-monitored approximately one hour after the corrective actions were implemented. All three of the locations exhibited readings lower than the 500-ppm above background limit. These readings qualified as the 10-day follow-up, per NYSDEC.

On August 20, 2009, Mr. Bryan Szalda of CRA performed a 30-day follow-up at each of the three locations. No readings exceeding the 500-ppm limit were detected at any of the locations, and no further action is required for the Q-3 monitoring period. Therefore the Chaffee Landfill facility is in compliance with the requirement of 40 CFR 60.753(d) for Municipal Solid Waste (MSW) Landfills.

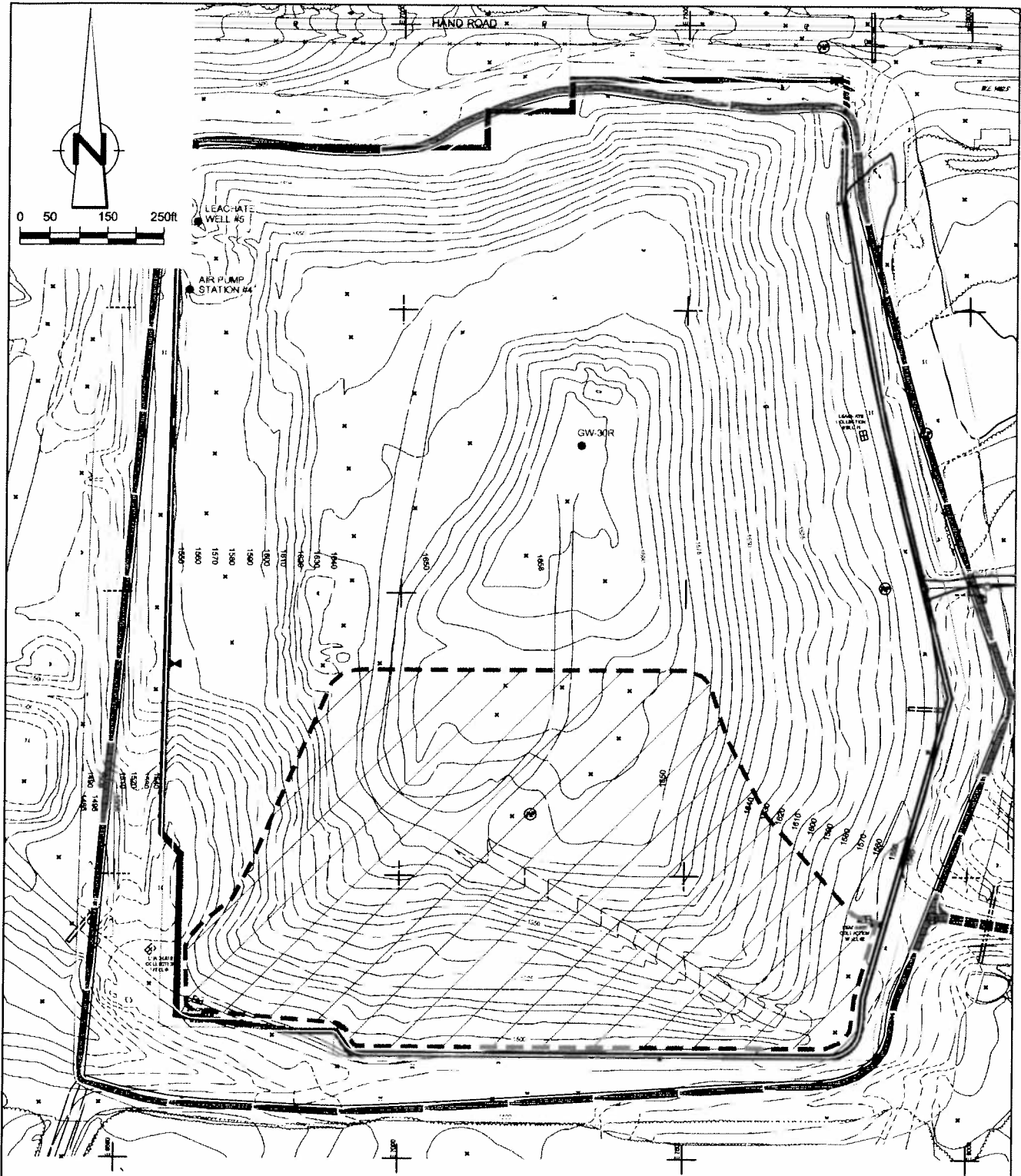
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

William F. Doebler IV

WFD/cs/4

FIGURE



LEGEND

- LOCATION OF MONITORING EXCEEDENCE
- ▨ AREA NOT MONITORED (FINAL CAPPING PREPARATION)



figure 1

**Q-3 LANDFILL SURFACE
SCAN EXCEEDANCES**
WASTE MANAGEMENT OF NEW YORK
Chaffee, New York

ATTACHMENT 1

MONITORING INSTRUMENT PERFORMANCE EVALUATION AND CALIBRATION
DOCUMENTATION



**CONESTOGA-ROVERS
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Project Number: 055710

Client: WMNY

Date: 7-27-09

Operator Name: Bryan Szalda

Facility: Chatter Landfill

Instrument ID: TE TVA-1000 FID (#B18276B)

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>
1	<u>5</u> seconds
2	<u>5</u> seconds
3	<u>5</u> seconds
Average	<u>5</u> seconds

NOTE: Must be < 30 seconds

<u>Trial No.</u>	<u>Meter Reading After Zero Gas *</u>	<u>Meter Reading After Methane Gas</u>	<u>Difference Between Calibration Gas and Meter Reading</u>
1	<u>0</u> ppm	<u>495</u> ppm	<u>5</u> ppm
2	<u>0</u> ppm	<u>496</u> ppm	<u>4</u> ppm
3	<u>0</u> ppm	<u>494</u> ppm	<u>6</u> ppm

Average Difference: 5.0 ppm

$$\begin{aligned}
 \text{Calibration Precision} &= \text{Average Difference} / \text{Calibration Gas Conc.} \times 100\% \\
 &= \frac{5.0}{500} \times 100\% \\
 &= 1.0\%
 \end{aligned}$$

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



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Project Number: 055710

Client: WMNY

General Information:

Date: 7-27-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: IE TVA-1000 FID (# B18276B)

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

Approximate Wind Speed 0-5 mph

General Weather: 65 °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: 9:20 am pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 2.5 ppm

Background concentrations downwind of site: 4.2 ppm

Average: 3.4 ppm

Location of background readings

Upwind: SW of Original Landfill near access road

Downwind: NE of Original Landfill near old greenhouse



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Project Number: 055710

Client: WMNY

Date: 8-20-09

Operator Name: Bryan Szalca

Facility: Chaltec Landfill

Instrument ID: IE TJA-1000 F10 (#B18276B)

Calibration Gas Conc.: 500 ppm

90% of Calib. Gas Conc.: 450 ppm

<u>Trial No.</u>	<u>Time to reach 90% gas value</u>
1	<u>4</u> seconds
2	<u>4</u> seconds
3	<u>4</u> seconds
Average	<u>4.0</u> seconds

NOTE: Must be < 30 seconds

<u>Trial No.</u>	<u>Meter Reading After Zero Gas *</u>	<u>Meter Reading After Methane Gas</u>	<u>Difference Between Calibration Gas and Meter Reading</u>
1	<u>0</u> ppm	<u>495</u> ppm	<u>5</u> ppm
2	<u>0</u> ppm	<u>490</u> ppm	<u>4</u> ppm
3	<u>0</u> ppm	<u>495</u> ppm	<u>5</u> ppm

Average Difference: 4.67 ppm

$$\begin{aligned} \text{Calibration Precision} &= \text{Average Difference} / \text{Calibration Gas Conc.} \times 100\% \\ &= \frac{4.67}{500} \times 100\% \\ &= 0.93\% \end{aligned}$$

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



CONESTOGA-ROVERS & ASSOCIATES

Project Number: 055710

Client: WMNY

General Information:

Date: 8-20-09

Operator Name: Bryan Szalda

Facility: Chaffee Landfill

Instrument ID: IE TVA-1000 FID (#B18276B)

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

Approximate Wind Speed 0-5 mph

General Weather: 77 °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: 9:15 (am) pm (fill in and pick one)

Background Concentration Information:

Background concentration upwind of site: 3.4 ppm

Background concentrations downwind of site: 8.4 ppm

Average: 5.9 ppm

Location of background readings

Upwind: SW of Original Landfill near access road

Downwind: NE of Original Landfill near old greenhouse

ATTACHMENT 2
MONITORING EXCEEDANCE DESCRIPTIONS



**CONESTOGA-ROVERS
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Project Number: 055710

Client: WMNY

Initial Monitoring Exceedance:

Date: 7-27-09 Time: 10:10 (am) pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: >10,000 ppm - 3.4 ppm = 10,000 ppm

Location of monitored exceedance (include description of field marker used): Area surrounding Leachate Tank #5; marked with red flag and notified Operations Manager.
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: valve and vacuum adjustments were made to Leachate Tank #5 and GW-18 (closest gas well to location).

Remonitor location within 10 calendar days of initial exceedance:

Date: 7-27-09 Time: 12:05 (pm) am Monitoring Technician Initials: BPS
Instrument reading - Background reading: 3.8 ppm - 3.4 ppm = 0.4 ppm

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

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:

Date: 8-20-09 Time: 10:15 (pm) pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 3.0 ppm - 5.9 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:

Remonitor location within 10 calendar days of 2nd exceedance:

Date: _____ Time: _____ am pm 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: _____ am pm 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.



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Project Number: 055710

Client: WMNY

Initial Monitoring Exceedance:

Date: 7-27-09 Time: 10:15 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: >10,000 ppm - 3.4 ppm = >10,000 ppm

Location of monitored exceedance (include description of field marker used): Area surrounding Air Pump Station #4; marked w/ red flag and notified Operations Manager.
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: valve and vacuum adjustments were made to Leachate Tank #5 and GW-18 (closest gas well to location).

Remonitor location within 10 calendar days of initial exceedance:

Date: 7-27-09 Time: 12:07 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 350 ppm - 3.4 ppm = 346.6 ppm

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

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:

Date: 8-20-09 Time: 10:17 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 2.7 ppm - 5.9 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:

Remonitor location within 10 calendar days of 2nd exceedance:

Date: _____ Time: _____ am pm 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: _____ am pm 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.



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Project Number: 055710

Client: WMNY

Initial Monitoring Exceedance:

Date: 7-27-09 Time: 10:45 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 2,890 ppm - 3.4 ppm = 2,886.6 ppm

Location of monitored exceedance (include description of field marker used): Area surrounding GW-30R ; marked with red flag and notified Operations Manager.
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: valve and vacuum adjustments were made to GW-30R.

Remonitor location within 10 calendar days of initial exceedance:

Date: 7-27-09 Time: 12:15 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 6.2 ppm - 3.4 ppm = 2.8 ppm

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

If the 10 day remonitoring is <500 ppm, remonitor 1 month from initial exceedance:

Date: 8-20-09 Time: 10:22 am pm Monitoring Technician Initials: BPS
Instrument reading - Background reading: 9.1 ppm - 5.9 ppm = 3.2 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:

Remonitor location within 10 calendar days of 2nd exceedance:

Date: _____ Time: _____ am pm 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: _____ am pm 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.