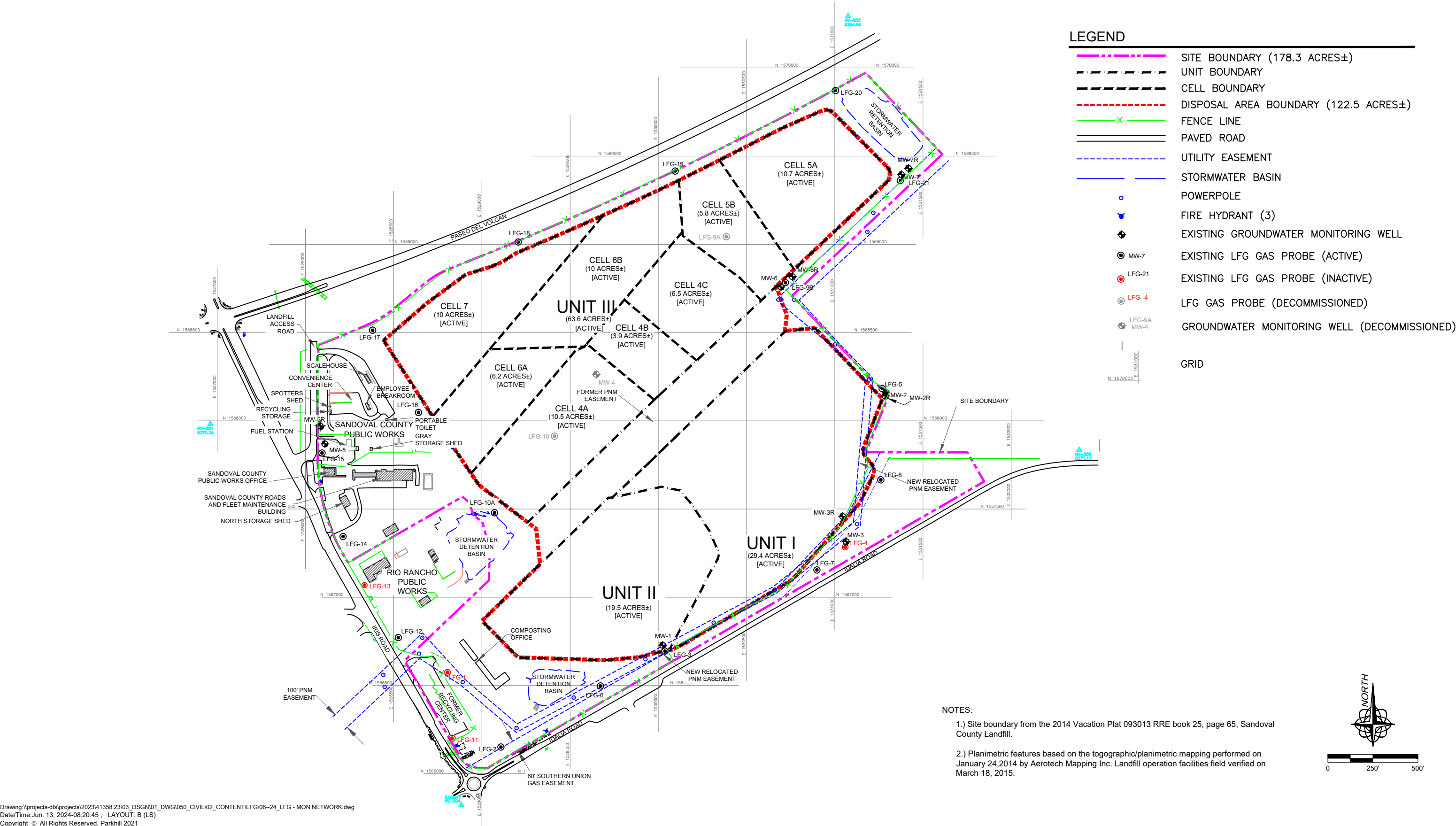


TO:	Daniele Berardelli, Permit Section Manager, NMED Solid Waste Bureau
cc:	Chris Perea, Landfill Manager, Sandoval County Landfill
FROM:	Andy Yuhas, Parkhill
DATE:	June 13, 2024
SUBJECT:	Sandoval County Landfill: June 2024 Landfill Gas Monitoring Event [04135823.00]

On June 13, 2024, Parkhill performed quarterly landfill gas (LFG) monitoring at the Sandoval County Landfill (SCLF). Landfill gas measurements were recorded at the seventeen (17) active perimeter gas monitoring probes and ten (10) on-site structures shown on **Exhibit A**. Monitoring results for this event are provided as **Exhibit B**, and a copy of the field notes is included as **Exhibit C**.

Monitoring was performed using a CES Landtec™ GEM-2000® portable gas analyzer to measure methane (CH₄), oxygen (O₂), carbon dioxide (CO₂), and balance gas (typically nitrogen) in and around facility structures and in the perimeter probes. The GEM-2000® records gas measurements in terms of percent by volume in air; and was calibrated in the field prior to monitoring with 50% CH₄, 35% CO₂, and 4% O₂ calibration gases. Methane was not detected above the regulatory threshold of 25% of the lower explosive limit (LEL) for methane (1.25% by volume in air) at any of the monitoring locations or in any of the dedicated methane monitoring probes. The detected values for carbon dioxide and oxygen are generally consistent with the results of previous monitoring events.

Landfill gas monitoring at the perimeter probes is accomplished by connecting the GEM-2000® to the quick-connect port atop the probe with flexible Teflon tubing. Monitoring within structures is performed by connecting a 3-foot-long fiberglass extension rod to the tubing. For each type of monitoring, the pump on the GEM-2000® was turned on and the instrument was allowed to operate for a minimum of 90 seconds before stabilized instrument readings were recorded.



Drawing: \\projects-dfs\projects\2023\41358.23\03_DSGN\01_DWG\050_CIVIL\02_CONTENT\LFG\06-24_LFG - MON NETWORK.dwg
Date/Time: Jun. 13, 2024-08:20:45 ; LAYOUT: B (LS)
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JUNE 2024 LANDFILL GAS MONITORING EVENT

LANDFILL GAS MONITORING POINTS

Parkhill.com SANDOVAL COUNTY LANDFILL
RIO RANCHO, NEW MEXICO

Date: 06/13/2024
Project No: 41358.23
Sheet: EXHIBIT A

Exhibit B - Landfill Gas Monitoring Field Log

Monitoring Personnel: Andy Yuhas

Methane Monitoring Type: Dedicated Probe

Probe Depth: 30'

Monitoring Date: 6/13/2024

Weather Information

Date and amount of last precipitation 06/10/24 0.26in

Temp: 78 °F

Wind Speed: 2 mph

Wind Direction: NW (observed at site)

Barometric Pressure: 29.9 inches mercury (Hg)

Weather Conditions: Partly Cloudy

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000

Date and Time Last Calibrated: 6/13/24: 0822

Permanent Landfill Gas Monitoring Probes

Monitoring Probe ID	Time of Measurement	CH ₄ (% in air)	CO ₂ (% in air)	O ₂ (% in air)	Balance Gas (% in air)
LFG-2	1102	0.0	0.0	21.0	79.0
LFG-3	1053	0.0	0.0	21.2	78.8
LFG-5	1046	0.0	1.7	19.1	79.2
LFG-6	1053	0.0	0.0	21.3	78.7
LFG-7	1215	0.0	0.1	21.1	78.8
LFG-8	1222	0.1	0.1	21.1	78.7
LFG-9B	1016	0.0	0.0	20.9	79.1
LFG-10A	1029	0.0	0.0	20.8	79.2
LFG-12	1013	0.0	0.0	21.1	78.9
LFG-14	922	0.0	0.0	21.2	78.8
LFG-15	1126	0.0	0.0	21.1	78.9
LFG-16	940	0.0	0.0	21.2	78.8
LFG-17	941	0.0	0.1	20.8	79.1
LFG-18	947	0.0	0.0	21.2	78.8
LFG-19	955	0.0	0.2	20.2	79.6
LFG-20	1002	0.0	0.0	20.8	79.2
LFG-21	1010	0.0	0.0	20.6	79.4

Landfill Structures

Scalehouse (ticket office)	1133	0.0	0.0	21.5	78.5
Scalehouse (supervisor's office)	1141	0.1	0.0	21.7	78.2
Employee Breakroom	1149	0.1	0.0	21.9	78.0
Spotter's Shed	1153	0.1	0.0	21.7	78.2
Recycling Storage	1155	0.0	0.0	21.8	78.2
Portable Toilet	1119	0.0	0.0	21.4	78.6
Gray Storage Shed	1200	0.0	0.0	21.8	78.2
Composting Office	1110	0.0	0.0	21.4	78.6
Public Works Dept. Admin.	929	0.0	0.0	21.0	79.0
Roads & Fleet Maintenance Bldg.	925	0.0	0.0	21.2	78.8
North Storage Shed	915	0.0	0.0	21.4	78.6

Ambient Readings

Office	917	0.0	0.0	21.6	78.4
Near LFG 8	1225	0.1	0.0	21.9	78.0

Signature(s):

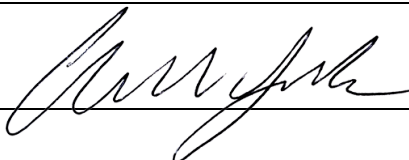


Exhibit C - Landfill Gas Monitoring Field Log

Monitoring Personnel: Andy Yuhas
Methane Monitoring Type: Dedicated Probe
Probe Depth: 30'
Monitoring Date: 6.13.24

Weather Information

Date and amount of last precipitation: 6/10/24 0.26 in
Temp: 78°F
Wind Speed: 24 mph
Wind Direction: NW (observed at site)
Barometric Pressure: 29.90 inches mercury (Hg)
Weather Conditions: clear, warm, 11-62

Equipment Information

Monitoring Equipment Used: CES-LandTec™ GEM 2000
Date and Time Last Calibrated: 6.13.24, 0822

Permanent Landfill Gas Monitoring Probes

Monitoring Probe ID	Time of Measurement	CH ₄ (% in air)	CO ₂ (% in air)	O ₂ (% in air)	Balance Gas (% in air)
LFG-2	1102	0.0	0.0	21.0	79.0
LFG-3	1053	0.0	0.0	21.2	78.8
LFG-5	1046	0.0	1.7	19.1	79.2
LFG-6	1053	0.0	0.0	21.3	78.7
LFG-7	1215	0.0	0.1	21.1	78.8
LFG-8	1222	0.1	0.1	21.1	78.7
LFG-9B	1016	0.0	0.0	20.9	79.1
LFG-10A	1024	0.0	0.0	20.8	79.2
LFG-12	1113	0.0	0.0	21.1	78.9
LFG-14	0922	0.0	0.0	21.2	78.8
LFG-15	1126	0.0	0.0	21.1	78.9
LFG-16	0940	0.0	0.0	21.2	78.8
LFG-17	0941	0.0	0.1	20.8	79.1
LFG-18	0947	0.0	0.0	21.2	78.8
LFG-19	0955	0.0	0.0	20.2	79.6
LFG-20	1002	0.0	0.0	20.8	79.2
LFG-21	1010	0.0	0.0	20.6	79.4

Landfill Structures

Scalehouse (ticket office)	1133	0.0	0.0	21.5	78.5
Scalehouse (supervisor's office)	1141	0.1	0.0	21.7	78.2
Employee Breakroom	1149	0.1	0.0	21.9	78.0
Spotter's Shed	1158	0.1	0.0	21.7	78.2
Recycling Storage	1155	0.0	0.0	21.8	78.2
Portable Toilet	1119	0.0	0.0	21.4	78.6
Gray Storage Shed	1200	0.0	0.0	21.8	78.2
Composting Office	1110	0.0	0.0	21.4	78.6
Public Works Dept. Admin.	0929	0.0	0.0	21.0	79.0
Roads & Fleet Maintenance Bldg.	0923	0.0	0.0	21.2	78.8
North Storage Shed	0715	0.0	0.0	21.4	78.6

Ambient Readings

Office	0912	0.0	0.0	21.6	78.4
Near LFG 8	1226	0.1	0.0	21.9	78.0

Signature(s):

