

## Smith, George

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**From:** Elizabeth D. Kennelley, MS, CEPM <ekennelley@jonesedmunds.com>  
**Sent:** Thursday, October 07, 2021 8:59 AM  
**To:** Black, Alexis; SWD\_Waste  
**Cc:** Henry C. Norris; Dan S. Sherlock; Joshua L. Younce; Troy D. Hays, PG  
**Subject:** Emailing: 2021.10.07\_RPT\_Citrus Co LF\_WACS 39859\_21Q3 LFG.pdf  
**Attachments:** 2021.10.07\_RPT\_Citrus Co LF\_WACS 39859\_21Q3 LFG.pdf

### EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good morning,

Attached is the Third Quarter 2021 Landfill Gas Monitoring Report for the Citrus County Central Landfill (WACS 39859).

Please let us know if you have any problems opening the attachment or have questions or comments concerning the report.

Thank you,

Elizabeth D. Kennelley, MS, CEPM  
Department Manager

P. 352.377.5821 X. 1416  
JONESEDMUNDS.COM  
730 NE Waldo Road, Gainesville, FL. 32641

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2021.10.07\_RPT\_Citrus Co LF\_WACS 39859\_21Q3 LFG.pdf

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October 6, 2021

Ms. Alexis Black  
Solid Waste Section  
Department of Environmental Protection  
13051 N Telecom Pkwy  
Temple Terrace, FL 33637-0926

RE: Citrus County Central Landfill  
Landfill Gas Monitoring Results – Third Quarter 2021  
FDEP Permit No.: 21375-025-SO-01  
FDEP Modification No.: 21375-026-SO-MM  
Jones Edmunds Project Number: 03860-086-01

Dear Ms. Black:

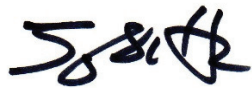
Enclosed are the Third Quarter 2021 landfill gas monitoring results for the Citrus County Central Landfill conducted on July 12 and 16, 2021. The calibration log is also enclosed with this letter.

Methane was not detected in any gas monitoring wells on site. Based on these sampling results from the probes at varying depths, Methane does not exceed 100% of the LEL at the compliance boundary and the site is in compliance with the landfill gas migration rule.

The County continues to measure Methane concentrations in the groundwater monitoring wells. Methane was detected below the LEL in groundwater monitoring wells MW-12, MW-15, and MW-E. Methane was detected at or above 100% of the LEL in groundwater monitoring wells MW-3, MW-5, MW-6, MW-7, MW-14, MW-16, MW-20, and MW-21. Methane levels detected in MW-5, MW-14, and MW-21 are between the Lower and Upper Explosive Limits.

Results from this sampling event indicate that the site is in compliance with the landfill gas migration rules. If you have any questions regarding this information, please contact me at (352) 377-5821.

Sincerely,



Troy D. Hays, PG  
Sr. Manager/Vice President  
730 NE Waldo Road  
Gainesville, FL 32618

M:\EnvDocs\Citrus County\Gas Mon\2021\21Q3\21Q3\_Citrus\_Gas Mon\_Letter.docx

xc: Henry Norris, Citrus County  
Dan Sherlock, Citrus County  
Joshua Younce, Citrus County

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures  
Third Quarter 2021

General Data

Sampler:	Steve Messick
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
7/16/2021	8:15	27	Hazy sky, wind <3mph
7/16/2021	9:20	30	Mostly Clear, wind <3mph
7/16/2021	11:00	33	Scattered Clouds

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Methane		Station Type
						Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
GP-1	7/16/2021	10:00	20	19.3	2.0	0.0	-	Gas Well
GP-1	7/16/2021	9:58	40	19.2	2.4	0.0	-	Gas Well
GP-2	7/16/2021	9:42	20	16.2	2.2	0.0	-	Gas Well
GP-2	7/16/2021	9:44	40	17.8	2.0	0.0	-	Gas Well
GP-3	7/16/2021	9:25	20	18.8	1.8	0.0	-	Gas Well
GP-3	7/16/2021	9:27	40	19.1	1.6	0.0	-	Gas Well
GP-4	7/16/2021	10:10	20	19.1	2.6	0.0	-	Gas Well
GP-4	7/16/2021	10:12	40	18.6	3.6	0.0	-	Gas Well
GP-5	7/16/2021	10:22	20	18.9	3.0	0.0	-	Gas Well
GP-5	7/16/2021	10:24	40	18.5	4.0	0.0	-	Gas Well
GP-6	7/16/2021	12:01	20	18.9	2.6	0.0	-	Gas Well
GP-6	7/16/2021	12:02	40	19.2	2.4	0.0	-	Gas Well
GP-7	7/16/2021	11:55	20	19.0	2.2	0.0	-	Gas Well
GP-7	7/16/2021	11:56	40	18.9	2.2	0.0	-	Gas Well
GP-8	7/16/2021	11:51	20	19.0	1.6	0.0	-	Gas Well
GP-8	7/16/2021	11:52	40	18.8	1.8	0.0	-	Gas Well
GP-9	7/16/2021	11:46	20	19.3	1.6	0.0	-	Gas Well
GP-9	7/16/2021	11:47	40	19.2	1.8	0.0	-	Gas Well
GP-10	7/16/2021	11:41	20	16.5	5.0	0.0	-	Gas Well
GP-10	7/16/2021	11:42	40	15.5	6.2	0.0	-	Gas Well
GP-11	7/16/2021	11:36	20	19.0	1.6	0.0	-	Gas Well
GP-11	7/16/2021	11:38	40	18.8	1.6	0.0	-	Gas Well
GP-12	7/16/2021	11:30	25	19.5	1.8	0.0	-	Gas Well
GP-12	7/16/2021	11:31	50	19.3	1.8	0.0	-	Gas Well
GP-12	7/16/2021	11:33	75	19.7	1.4	0.0	-	Gas Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures  
Third Quarter 2021

General Data

Sampler:	Steve Messick
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
7/16/2021	8:15	27	Hazy sky, wind <3mph
7/16/2021	9:20	30	Mostly Clear, wind <3mph
7/16/2021	11:00	33	Scattered Clouds

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Methane		Station Type
						Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
GP-13	7/16/2021	11:23	25	18.1	2.4	0.0	-	Gas Well
GP-13	7/16/2021	11:24	50	17.8	2.4	0.0	-	Gas Well
GP-13	7/16/2021	11:26	75	18.5	1.8	0.0	-	Gas Well
GP-14	7/16/2021	11:17	25	19.3	1.2	0.0	-	Gas Well
GP-14	7/16/2021	11:18	50	19.3	1.4	0.0	-	Gas Well
GP-14	7/16/2021	11:20	75	19.5	1.2	0.0	-	Gas Well
GP-15	7/16/2021	11:11	25	20.3	1.2	0.0	-	Gas Well
GP-15	7/16/2021	11:12	50	20.2	1.4	0.0	-	Gas Well
GP-15	7/16/2021	11:14	75	20.7	0.8	0.0	-	Gas Well
GP-16	7/16/2021	11:01	25	19.5	1.4	0.0	-	Gas Well
GP-16	7/16/2021	11:02	50	19.3	1.6	0.0	-	Gas Well
GP-16	7/16/2021	11:04	75	19.8	1.2	0.0	-	Gas Well
GP-17	7/16/2021	10:54	25	17.4	4.0	0.0	-	Gas Well
GP-17	7/16/2021	10:55	50	15.2	5.8	0.0	-	Gas Well
GP-17	7/16/2021	10:56	75	16.4	4.4	0.0	-	Gas Well
GP-18	7/16/2021	10:47	25	18.9	1.8	0.0	-	Gas Well
GP-18	7/16/2021	10:48	50	18.3	2.0	0.0	-	Gas Well
GP-18	7/16/2021	10:50	75	19.0	1.4	0.0	-	Gas Well
GP-19	7/16/2021	10:40	25	20.4	0.8	0.0	-	Gas Well
GP-19	7/16/2021	10:41	50	20.0	1.2	0.0	-	Gas Well
GP-19	7/16/2021	10:43	75	20.4	0.8	0.0	-	Gas Well
GP-20	7/16/2021	11:06	105	18.5	1.4	0.0	-	Gas Well
GP-21	7/16/2021	10:51	115	13.2	0.4	0.0	-	Gas Well
GP-22	7/16/2021	10:02	70	18.4	0.0	0.0	-	Gas Well
GP-23	7/16/2021	10:04	100	12.1	2.6	0.0	-	Gas Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures  
Third Quarter 2021

General Data

Sampler:	Steve Messick
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
7/16/2021	8:15	27	Hazy sky, wind <3mph
7/16/2021	9:20	30	Mostly Clear, wind <3mph
7/16/2021	11:00	33	Scattered Clouds

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Methane		Station Type
						Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
GP-24	7/16/2021	9:50	70	15.5	0.8	0.0	-	Gas Well
GP-25	7/16/2021	9:52	100	19.0	0.2	1.0	-	Gas Well
GP-26	7/16/2021	9:34	70	18.3	2.4	1.0	-	Gas Well
GP-27	7/16/2021	9:36	100	17.4	2.8	0.0	-	Gas Well
GP-28	7/16/2021	10:15	70	18.4	3.4	0.0	-	Gas Well
GP-29	7/16/2021	10:18	100	18.1	0.0	0.0	-	Gas Well
GP-30	7/16/2021	11:17	105	19.3	1.0	0.0	-	Gas Well
Admin Building	7/16/2021	8:34	-	20.9	0.0	0.0	-	Structure
Mod Bldg	7/16/2021	8:56	-	20.9	0.0	0.0	-	Structure
Shop	7/16/2021	8:52	-	20.9	0.0	0.0	-	Structure
Scale House	7/16/2021	8:47	-	20.9	0.0	0.0	-	Structure
Firing Range	7/16/2021	8:19	-	20.9	0.0	0.0	-	7 Structures
Haz Waste Drop-Off Center	7/16/2021	9:15	-	20.9	0.0	0.0	-	4 Structures
Equipment Container 1	7/16/2021	9:01	-	20.9	0.0	0.0	-	Structure
Storage Building	7/16/2021	8:58	-	20.9	0.0	0.0	-	Structure
Electronics	7/16/2021	9:07	-	20.9	0.0	0.0	-	Structure*
Paints	7/16/2021	9:19	-	20.9	0.0	0.0	-	Structure*
Chemical Container	7/16/2021	9:12	-	20.9	0.0	0.0	-	Structure*

\* Temporary Structure (Cargo Containers)

# CITRUS COUNTY CENTRAL LANDFILL LANDFILL GAS MONITORING RESULTS

## Groundwater Monitoring Wells and Piezometers Third Quarter 2021

### General Data

Sampler:	Steve Messick
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
7/12/2021	8:50 AM	26	Clear - Wind 0-5 mph S/SE

### Sampling Data

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-1R	7/12/2021	15:12	16.3	3.4	0.0	--	Groundwater Well
MW-2	7/12/2021	13:35	20.9	0.6	0.0	--	Groundwater Well
MW-3	7/12/2021	9:18	13.4	13.8	--	27.0	Groundwater Well
MW-5	7/12/2021	10:02	6.8	24.8	--	12.0	Groundwater Well
MW-6	7/12/2021	9:53	6.4	40.2	--	45.0	Groundwater Well
MW-7	7/12/2021	9:31	6.5	40.8	--	60.0	Groundwater Well
MW-8R	7/12/2021	11:39	10.9	22.0	0.0	--	Groundwater Well
MW-9	7/12/2021	11:49	4.3	14.6	0.0	--	Groundwater Well
MW-10	7/12/2021	10:59	16.1	11.2	0.0	--	Groundwater Well
MW-11	7/12/2021	15:01	16.4	3.4	0.0	--	Groundwater Well
MW-12	7/12/2021	14:41	12.7	6.0	13.0	--	Groundwater Well
MW-13	7/12/2021	14:24	17.1	3.0	0.0	--	Groundwater Well
MW-14	7/12/2021	14:14	6.2	19.4	--	5.0	Groundwater Well
MW-15	7/12/2021	14:05	6.3	19.2	97.0	--	Groundwater Well
MW-16	7/12/2021	9:05	12.9	15.0	--	28.5	Groundwater Well
MW-17	7/12/2021	13:53	12.9	9.0	0.0	--	Groundwater Well
MW-18	7/12/2021	10:47	18.8	1.6	0.0	--	Groundwater Well
MW-18D	7/12/2021	10:41	16.6	5.2	0.0	--	Groundwater Well
MW-19	7/12/2021	11:07	16.2	10.6	0.0	--	Groundwater Well
MW-19D	7/12/2021	11:13	18.4	2.0	0.0	--	Groundwater Well
MW-20	7/12/2021	9:44	6.5	41.0	--	60.0	Groundwater Well
MW-21	7/12/2021	10:14	6.5	25.4	--	12.0	Groundwater Well
MW-22	7/12/2021	10:23	6.4	18.0	0.0	--	Groundwater Well
MW-AA	7/12/2021	14:23	17.7	2.4	0.0	--	Groundwater Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers  
Third Quarter 2021

General Data

Sampler:	Steve Messick
Measuring Device:	Eagle RKI (SN E084039)

Date	Time	Air Temperature (deg C)	Sky Conditions
7/12/2021	8:50 AM	26	Clear - Wind 0-5 mph S/SE

Sampling Data

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-B	7/12/2021	11:27	15.5	22.4	0.0	--	Groundwater Well
MW-E	7/12/2021	14:48	14.1	5.2	8.0	--	Groundwater Well
PZ-1	7/12/2021	12:02	18.2	1.2	0.0	--	Groundwater Well
PZ-2	7/12/2021	10:33	11.6	7.2	0.0	--	Groundwater Well

Field Data  
and  
Instrument Calibration Record

**CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS**

**Groundwater Monitoring Wells and Piezometers**

General Data      **21Q3 Monitoring Event**

Date:	7/12/21	Sampler:	Steve Messick
Time:	0550	Sky Conditions:	Clear - Wind 0-5 MPH S/SE
Air Temperature (deg C):	26°C	Measuring Device:	Eagle RKL (SN E084039)

**Sampling Data**

Station I.D.	Date Sampled	Time Sampled	O2 %Volume	CO2 %Volume	Methane		Station Type
					Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
MW-1R	7/12/21	1512	16.3	3.4	Ø	—	Groundwater Well
MW-2		1335	20.9	0.6	Ø	—	Groundwater Well
MW-3		0918	13.4	13.8	—	27.0	Groundwater Well
MW-5		1002	6.8	24.8	—	12.0	Groundwater Well
MW-6		0953	6.4	40.2	—	45.0	Groundwater Well
MW-7		0931	6.5	40.8	—	60.0	Groundwater Well
MW-8R		1139	10.9	22.0	Ø	—	Groundwater Well
MW-9		1149	4.3	14.6	Ø	—	Groundwater Well
MW-10		1059	16.1	11.2	Ø	—	Groundwater Well
MW-11		1501	16.4	3.4	Ø	—	Groundwater Well
MW-12		1441	12.7	6.0	13	—	Groundwater Well
MW-13		1424	17.1	3.0	Ø	—	Groundwater Well
MW-14		1414	6.2	19.4	—	5.0	Groundwater Well
MW-15		1405	6.3	19.2	97	—	Groundwater Well
MW-16		0905	12.9	15.0	—	28.5	Groundwater Well
MW-17		1353	12.9	9.0	Ø	—	Groundwater Well
MW-18		1047	18.8	1.6	Ø	—	Groundwater Well
MW-18D		1041	16.6	5.2	Ø	—	Groundwater Well
MW-19		1107	16.2	10.6	Ø	—	Groundwater Well
MW-19D		1113	18.4	2.0	Ø	—	Groundwater Well
MW-20		0944	6.5	41.0	—	60.0	Groundwater Well
MW-21		1014	6.5	23.4	—	12.0	Groundwater Well
MW-22		1023	6.4	18.0	Ø	—	Groundwater Well
MW-AA		1433	17.7	2.4	Ø	—	Groundwater Well
MW-B		1127	15.5	22.4	Ø	—	Groundwater Well
MW-E		1448	14.1	5.2	Ø	—	Groundwater Well
PZ-1		1202	18.2	1.2	Ø	—	Groundwater Well
PZ-2		1033	11.6	7.2	Ø	—	Groundwater Well

**CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS**

**Gas Monitoring Probes (Wells) and Structures**

**2103 Monitoring Event**

General Data

Date:	7-16-21	Steve Messick
Time:	0920	Mostly clear - wind < 3 mph
Air Temperature (deg C):	30°C	Eagle RK1 (SN E084039)

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Methane		Station Type
						Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
GP-1	7-16-21	1000	20	19.3	2.0	0	—	Gas Well
GP-1		0958	40	19.2	2.4	0	—	Gas Well
GP-2		0942	20	16.2	2.2	0	—	Gas Well
GP-2		0944	40	17.8	2.0	0	—	Gas Well
GP-3		0925	20	18.8	1.8	0	—	Gas Well
GP-3		0927	40	19.1	1.6	0	—	Gas Well
GP-4		1010	20	19.1	2.6	0	—	Gas Well
GP-4		1012	40	18.6	3.6	0	—	Gas Well
GP-5		1022	20	18.9	3.0	0	—	Gas Well
GP-5		1024	40	18.5	4.0	0	—	Gas Well
GP-6		1201	20	18.9	2.6	0	—	Gas Well
GP-6		1202	40	19.2	2.4	0	—	Gas Well
GP-7		1155	20	19.0	2.2	0	—	Gas Well
GP-7		1156	40	18.9	2.2	0	—	Gas Well
GP-8		1151	20	19.0	1.6	0	—	Gas Well
GP-8		1152	40	18.8	1.8	0	—	Gas Well
GP-9		1146	20	19.3	1.6	0	—	Gas Well
GP-9		1147	40	19.2	1.8	0	—	Gas Well
GP-10		1141	20	16.5	5.0	0	—	Gas Well
GP-10		1142	40	15.5	6.2	0	—	Gas Well
GP-11		1136	20	19.0	1.6	0	—	Gas Well
GP-11		1138	40	18.8	1.6	0	—	Gas Well
GP-12		1130	25	19.5	1.8	0	—	Gas Well
GP-12		1131	50	19.3	1.8	0	—	Gas Well
GP-12		1133	75	19.7	1.4	0	—	Gas Well
GP-13		1123	25	18.1	2.4	0	—	Gas Well
GP-13		1124	50	17.8	2.4	0	—	Gas Well
GP-13		1126	75	18.5	1.8	0	—	Gas Well
GP-14		1117	25	19.3	1.2	0	—	Gas Well
GP-14		1118	50	19.3	1.4	0	—	Gas Well
GP-14		1120	75	19.3	1.2	0	—	Gas Well
GP-15		1111	25	20.3	1.2	0	—	Gas Well
GP-15		1112	50	20.2	1.4	0	—	Gas Well
GP-15		1114	75	20.7	0.8	0	—	Gas Well
GP-16		1101	25	19.5	1.4	0	—	Gas Well
GP-16		1102	50	19.3	1.6	0	—	Gas Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures

21Q3 Monitoring Event

General Data

Date:	7-16-21	Sampler:	Steve Messick
Time:	1100	Sky Conditions:	Scattered clouds
Air Temperature (deg C):	33.0 C	Measuring Device:	Eagle RK1 (SN E084039)

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	Station Type
GP-16	7-16-21	1104	75	19.8	1.2	0	---	Gas Well

**CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS**

**Gas Monitoring Probes (Wells) and Structures**

**21Q3 Monitoring Event**

General Data

Date:	7-16-21	Sampler:	Steve Messick
Time:	0815	Sky Conditions:	Hazy sky - wind < 3 mph
Air Temperature (deg C):	27°C	Measuring Device:	Eagle RKL (SN E084039)

Sampling Data

Station I.D.	Date Sampled	Time Sampled	Depth of Intake (Feet)	O2 %Volume	CO2 %Volume	Methane		Station Type
						Peak Recorded Concentration as % LEL	Peak Recorded Concentration as % Volume	
GP-17	7-16-21	1054	25	17.4	4.0	0	—	Gas Well
GP-17		1055	50	15.2	5.8	0	—	Gas Well
GP-17		1056	75	16.4	4.4	0	—	Gas Well
GP-18		1047	25	18.9	1.8	0	—	Gas Well
GP-18		1048	50	18.3	2.0	0	—	Gas Well
GP-18		1050	75	19.0	1.4	0	—	Gas Well
GP-19		1040	25	20.4	0.8	0	—	Gas Well
GP-19		1041	50	20.0	1.2	0	—	Gas Well
GP-19		1043	75	20.4	2.8	0	—	Gas Well
GP-20		1066	105	18.5	1.4	0	CO = 55ppm	Gas Well
GP-21		1051	115	13.2	0.4	0	—	Gas Well
GP-22		1002	70	19.4	0.0	0	CO = 150ppm	Gas Well
GP-23		1004	100	12.1	2.6	0	—	Gas Well
GP-24		0950	70	15.5	0.6	0	—	Gas Well
GP-25		0952	100	19.0	0.2	0	—	Gas Well
GP-26		0934	70	18.3	2.4	0	—	Gas Well
GP-27		0936	100	17.4	2.6	0	—	Gas Well
GP-28		1015	70	18.4	3.4	0	—	Gas Well
GP-29		1018	100	18.1	0.0	0	—	Gas Well
GP-30		1117	105	19.3	1.0	0	CO = 40ppm	Gas Well
Admin Building		0834	-	20.9	0.0	0	—	Structure
Mod Bldg		0856	-	20.9	0.0	0	—	Structure
Shop		0852	-	20.9	0.0	0	—	Structure
Scale House		0847	-	20.9	0.0	0	—	Structure
Firing Range		0819	-	20.9	0.0	0	—	7 Structures
Haz Waste Drop-Off Ctr.		0915	-	20.9	0.0	0	—	4 Structures
Equipment Container		0901	-	20.9	0.0	0	—	Structure
Storage Building		0858	-	20.9	0.0	0	—	REMOVED
Electronics		0907	-	20.9	0.0	0	—	Structure, Temp
Paints		0919	-	20.9	0.0	0	—	Structure, Temp
Chemical Container		0912	-	20.9	0.0	0	—	Structure, Temp
			-					

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Citrus County Central DATE 7/12/21  
INSTRUMENT (MAKE/MODEL#) Eagle Multi-Gas Detector INSTRUMENT # GNV 80023\*  
Instrument Calibration Date 01/11/2021 Reference Meter Book Eagle Meter Book 1

PARAMETER: [check only one]

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP  
☐ TURBIDITY ☐ RESIDUAL CI ☐ DO ☒ OTHER LANDFILL GAS

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 14.85% Methane (Volume), 15.00 % CO<sub>2</sub> (Volume), Balance Nitrogen

Standard Source Airgas Lot # 122-401728228-1

Standard B Zero Air (0 % Methane) (0% CO<sub>2</sub>) (21.0 % O<sub>2</sub>)

Standard Source Airgas Lot # 55-400485109-1

Standard C % LEL Methane % CO<sub>2</sub> (Volume), 0% O<sub>2</sub> (Volume), Bal Nitrogen

Standard Source \_\_\_\_\_ Lot # \_\_\_\_\_

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	CH <sub>4</sub> STD VALUE (% Vol)	CO <sub>2</sub> STD VALUE (% Vol)	O <sub>2</sub> STD VALUE (% Vol)	INSTRUMENT RESPONSE (%) DEVIATION (LIMITS +/- 5%)						CALIB- RATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
						CH <sub>4</sub>		CO <sub>2</sub>		O <sub>2</sub>				
						RES	DEV	RES	DEV	RES	DEV			
21/7/12	0857	A	14.85	15.0	—	15.0	<1	15.0	<1	—	—	Yes	Init.	Am
	0900	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Am
	1135	A	14.85	15.0	—	15.0	<1	15.2	<2	—	—	Yes	Cont.	Am
	1138	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
	1519	A	14.85	15.0	—	15.0	<1	15.4	<3	—	—	Yes	Cont.	Am
↓	1521	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
21/7/16	0813	A	14.85	15.0	—	15.0	<1	15.0	<1	—	—	Yes	Init.	Am
	0816	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Am
	1210	A	14.85	15.0	—	15.0	<1	15.2	<2	—	—	Yes	Cont.	Am
↓	1212	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am

\* Eagle SN E084039