

## Johnson, Sabrina O

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**From:** Adam Sanchez <ASANCHEZ@JONESEDMUNDS.COM>  
**Sent:** Thursday, July 8, 2021 3:59 PM  
**To:** Black, Alexis; SWD\_Waste; Tafuni, Steven  
**Cc:** Henry C. Norris; dan.sherlock@citrusbocc.com; Joshua L. Younce; Elizabeth D. Kennelley, MS, CEPM; Troy D. Hays, PG  
**Subject:** Citrus County Landfill - WACS ID 39859 - Second Quarter 2021 - Landfill Gas Monitoring Report  
**Attachments:** 2021.07.08\_RPT\_Citrus Co LF\_WACS 39859\_21Q2 LFG.pdf

Dear FDEP and Ms. Black,

Attached to this e-mail is the Second Quarter 2021 Landfill Gas Monitoring Report for the Citrus County Landfill (WACS ID 39859).

Please let us know if you have any questions regarding this report. Thank you.

Sincerely,

**Adam Sanchez**

Scientist

p. 352.377.5821

[JONESEDMUNDS.COM](http://JONESEDMUNDS.COM)

730 NE Waldo Road, Gainesville, FL 32641

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July 8, 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 – Second Quarter 2021  
FDEP Permit No.: 21375-025-SO-01  
FDEP Modification No.: 21375-026-SO-MM  
Jones Edmunds Project Number: 03860-075-01

Dear Ms. Black:

Enclosed are the Second Quarter 2021 landfill gas monitoring results for the Citrus County Central Landfill conducted on April 29 and 30, 2021. The calibration log is also enclosed with this letter.

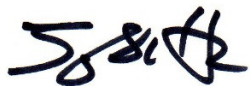
Methane was detected at low levels (1% of the LEL) in gas monitoring wells GP-25 and GP-26. Based on these sampling results from the probes at varying depths, Methane does not exceed 100% of the LEL at the compliance boundary and the site is in compliance with the landfill gas migration rule.

The County continues to measure Methane concentrations in the groundwater monitoring wells. Methane was detected below the LEL in groundwater monitoring wells MW-15, MW-17, MW-21, and MW-22. Methane was detected at or above 100% of the LEL in groundwater monitoring wells MW-5, MW-6, MW-7, MW-16, and MW-20.

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\21Q2\21Q2\_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  
First Quarter 2021

General Data

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

Date	Time	Air Temperature (deg C)	Sky Conditions
4/29/2021	8:50	25	Clear
4/29/2021	11:43	29	Scattered Clouds
4/30/2021	9:05	26	Scattered Clouds
4/30/2021	11:00	29	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	4/30/2021	11:45	20	18.9	1.6	0.0	-	Gas Well
GP-1	4/30/2021	11:47	40	18.5	2.4	0.0	-	Gas Well
GP-2	4/29/2021	15:24	20	18.1	2.6	0.0	-	Gas Well
GP-2	4/29/2021	15:26	40	14.7	6.2	0.0	-	Gas Well
GP-3	4/29/2021	14:55	20	18.7	1.4	0.0	-	Gas Well
GP-3	4/29/2021	14:57	40	18.8	1.4	0.0	-	Gas Well
GP-4	4/29/2021	14:44	20	18.1	3.0	0.0	-	Gas Well
GP-4	4/29/2021	14:46	40	17.3	4.0	0.0	-	Gas Well
GP-5	4/29/2021	14:26	20	17.8	3.6	0.0	-	Gas Well
GP-5	4/29/2021	14:27	40	17.3	4.2	0.0	-	Gas Well
GP-6	4/29/2021	14:19	20	18.2	2.6	0.0	-	Gas Well
GP-6	4/29/2021	14:20	40	18.1	2.8	0.0	-	Gas Well
GP-7	4/29/2021	14:13	20	18.5	2.0	0.0	-	Gas Well
GP-7	4/29/2021	14:14	40	18.3	2.4	0.0	-	Gas Well
GP-8	4/29/2021	14:07	20	18.6	1.6	0.0	-	Gas Well
GP-8	4/29/2021	14:08	40	17.4	2.2	0.0	-	Gas Well
GP-9	4/29/2021	14:00	20	18.5	1.8	0.0	-	Gas Well
GP-9	4/29/2021	14:01	40	18.3	2.2	0.0	-	Gas Well
GP-10	4/29/2021	13:52	20	14.6	6.6	0.0	-	Gas Well
GP-10	4/29/2021	13:53	40	13.8	7.4	0.0	-	Gas Well
GP-11	4/29/2021	13:45	20	18.4	1.4	0.0	-	Gas Well
GP-11	4/29/2021	13:46	40	16.8	2.2	0.0	-	Gas Well
GP-12	4/29/2021	13:37	25	18.6	1.6	0.0	-	Gas Well
GP-12	4/29/2021	13:38	50	18.6	1.6	0.0	-	Gas Well
GP-12	4/29/2021	13:40	75	18.6	1.6	0.0	-	Gas Well
GP-13	4/29/2021	13:30	25	17.4	2.0	0.0	-	Gas Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures  
First Quarter 2021

General Data

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

Date	Time	Air Temperature (deg C)	Sky Conditions
4/29/2021	8:50	25	Clear
4/29/2021	11:43	29	Scattered Clouds
4/30/2021	9:05	26	Scattered Clouds
4/30/2021	11:00	29	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	4/29/2021	13:31	50	17.2	2.0	0.0	-	Gas Well
GP-13	4/29/2021	13:33	75	17.3	1.8	0.0	-	Gas Well
GP-14	4/29/2021	13:21	25	18.5	1.2	0.0	-	Gas Well
GP-14	4/29/2021	13:22	50	18.5	1.2	0.0	-	Gas Well
GP-14	4/29/2021	13:24	75	18.4	1.2	0.0	-	Gas Well
GP-15	4/29/2021	11:57	25	19.7	1.2	0.0	-	Gas Well
GP-15	4/29/2021	11:58	50	19.7	1.2	0.0	-	Gas Well
GP-15	4/29/2021	12:00	75	19.9	1.2	0.0	-	Gas Well
GP-16	4/29/2021	11:43	25	19.3	1.2	0.0	-	Gas Well
GP-16	4/29/2021	11:44	50	19.1	1.4	0.0	-	Gas Well
GP-16	4/29/2021	11:46	75	19.0	1.4	0.0	-	Gas Well
GP-17	4/29/2021	11:34	25	16.7	3.6	0.0	-	Gas Well
GP-17	4/29/2021	11:35	50	14.8	5.4	0.0	-	Gas Well
GP-17	4/29/2021	11:37	75	14.6	5.6	0.0	-	Gas Well
GP-18	4/29/2021	11:24	25	19.0	1.4	0.0	-	Gas Well
GP-18	4/29/2021	11:25	50	18.3	1.8	0.0	-	Gas Well
GP-18	4/29/2021	11:27	75	18.1	1.8	0.0	-	Gas Well
GP-19	4/29/2021	11:16	25	19.9	0.8	0.0	-	Gas Well
GP-19	4/29/2021	11:17	50	19.7	1.0	0.0	-	Gas Well
GP-19	4/29/2021	11:19	75	19.7	1.2	0.0	-	Gas Well
GP-20	4/29/2021	11:48	105	17.7	1.8	0.0	-	Gas Well
GP-21	4/29/2021	11:29	115	10.6	0.4	0.0	-	Gas Well
GP-22	4/30/2021	11:50	70	16.7	0.0	0.0	-	Gas Well
GP-23	4/30/2021	11:56	100	9.7	3.0	0.0	-	Gas Well
GP-24	4/29/2021	15:14	70	12.6	0.4	0.0	-	Gas Well
GP-25	4/29/2021	15:18	100	18.8	0.2	1.0	-	Gas Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Gas Monitoring Probes (Wells) and Structures  
First Quarter 2021

General Data

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

Date	Time	Air Temperature (deg C)	Sky Conditions
4/29/2021	8:50	25	Clear
4/29/2021	11:43	29	Scattered Clouds
4/30/2021	9:05	26	Scattered Clouds
4/30/2021	11:00	29	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-26	4/29/2021	15:06	70	17.1	2.6	1.0	-	Gas Well
GP-27	4/29/2021	15:01	100	16.4	3.0	0.0	-	Gas Well
GP-28	4/29/2021	14:40	70	17.5	3.6	0.0	-	Gas Well
GP-29	4/29/2021	14:36	100	17.1	0.0	0.0	-	Gas Well
GP-30	4/29/2021	12:03	105	18.6	1.2	0.0	-	Gas Well
Admin Building	4/30/2021	9:17	-	20.9	0.0	0.0	-	Structure
Mod Bldg	4/30/2021	9:30	-	20.9	0.0	0.0	-	Structure
Shop	4/30/2021	9:26	-	20.9	0.0	0.0	-	Structure
Scale House	4/30/2021	9:22	-	20.9	0.0	0.0	-	Structure
Firing Range	4/29/2021	9:24	-	20.9	0.0	0.0	-	7 Structures
Haz Waste Drop-Off Center	4/30/2021	9:48	-	20.9	0.0	0.0	-	4 Structures
Equipment Container 1	4/30/2021	9:33	-	20.9	0.0	0.0	-	Structure
Storage Building	4/30/2021	9:28	-	20.9	0.0	0.0	-	Structure
Small Shed	Removed	Removed	-	-	-	-	-	Removed
Electronics	4/30/2021	9:38	-	20.9	0.0	0.0	-	Structure*
Paints	4/30/2021	9:45	-	20.9	0.0	0.0	-	Structure*
Chemical Container	4/30/2021	9:43	-	20.9	0.0	0.0	-	Structure*

\* Temporary Structure (Cargo Containers)

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers  
First Quarter 2021

General Data

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

Date	Time	Air Temperature (deg C)	Sky Conditions
4/29/2021	8:50 AM	25	Clear
4/30/2021	10:00 AM	27	Cloudy

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	4/30/2021	11:38	18.1	2.8	0.0	--	Groundwater Well
MW-2	4/29/2021	11:07	8.5	13.8	0.0	--	Groundwater Well
MW-3	4/30/2021	9:58	16.4	3.6	0.0	--	Groundwater Well
MW-5	4/30/2021	10:36	8.5	18.4	--	79.0	Groundwater Well
MW-6	4/30/2021	10:34	9.5	24.8	--	46.0	Groundwater Well
MW-7	4/30/2021	10:05	6.2	40.8	--	60.0	Groundwater Well
MW-8R	4/29/2021	9:40	11.8	16.2	0.0	--	Groundwater Well
MW-9	4/29/2021	9:46	14.6	10.4	0.0	--	Groundwater Well
MW-10	4/30/2021	11:17	15.7	11.0	0.0	--	Groundwater Well
MW-11	4/29/2021	10:04	15.9	2.8	0.0	--	Groundwater Well
MW-12	4/29/2021	10:18	19.0	2.2	0.0	--	Groundwater Well
MW-13	4/29/2021	10:31	10.1	9.8	0.0	--	Groundwater Well
MW-14	4/29/2021	10:39	12.9	7.2	0.0	--	Groundwater Well
MW-15	4/29/2021	10:46	4.7	20.4	81.0	--	Groundwater Well
MW-16	4/30/2021	10:26	6.5	37.8	--	55.0	Groundwater Well
MW-17	4/29/2021	10:54	4.9	20.2	79.0	--	Groundwater Well
MW-18	4/30/2021	11:24	15.7	10.8	0.0	--	Groundwater Well
MW-18D	4/30/2021	11:29	18.7	1.4	0.0	--	Groundwater Well
MW-19	4/30/2021	11:11	18.3	1.8	0.0	--	Groundwater Well
MW-19D	4/30/2021	11:08	16.1	5.4	0.0	--	Groundwater Well
MW-20	4/30/2021	10:18	5.5	41.8	--	63.0	Groundwater Well
MW-21	4/30/2021	10:48	8.4	18.8	79.0	--	Groundwater Well
MW-22	4/30/2021	10:56	7.4	15.8	8.0	--	Groundwater Well
MW-AA	4/29/2021	10:24	18.9	2.4	0.0	--	Groundwater Well
MW-B	4/29/2021	9:15	17.0	15.6	0.0	--	Groundwater Well

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers  
First Quarter 2021

General Data

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

Date	Time	Air Temperature (deg C)	Sky Conditions
4/29/2021	8:50 AM	25	Clear
4/30/2021	10:00 AM	27	Cloudy

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-E	4/29/2021	10:12	20.4	0.6	0.0	--	Groundwater Well
PZ-1	4/29/2021	9:52	15.6	2.8	0.0	--	Groundwater Well
PZ-2	4/30/2021	11:02	11.1	7.4	0.0	--	Groundwater Well

Field Data  
and  
Instrument Calibration Record



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

General Data **21Q2**

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

Date:	4-29-21	4-30-21	Sampler:	Steve Messick	
Time:	1143	1150	Sky Conditions:	Scattered	Scattered
Air Temperature (deg C):	29°C	29°C	Measuring Device:	Eagle RKI (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	4-30-21	1145	20	18.9	1.6	0	—	Gas Well
GP-1	↓	1147	40	18.5	2.4	0	—	Gas Well
GP-2	4-29-21	1524	20	18.1	2.6	0	—	Gas Well
GP-2		1526	40	14.7	6.2	0	—	Gas Well
GP-3		1455	20	18.7	1.4	0	—	Gas Well
GP-3		1457	40	18.8	1.4	0	—	Gas Well
GP-4		1444	20	18.1	3.0	0	—	Gas Well
GP-4		1446	40	17.3	4.0	0	—	Gas Well
GP-5		1426	20	17.8	3.0	0	—	Gas Well
GP-5		1427	40	17.3	4.2	0	—	Gas Well
GP-6		1419	20	18.2	2.6	0	—	Gas Well
GP-6		1420	40	18.1	2.8	0	—	Gas Well
GP-7		1413	20	18.5	2.0	0	—	Gas Well
GP-7		1414	40	18.3	2.4	0	—	Gas Well
GP-8		1407	20	18.6	1.6	0	—	Gas Well
GP-8		1408	40	17.4	2.2	0	—	Gas Well
GP-9		1400	20	18.5	1.8	0	—	Gas Well
GP-9		1401	40	18.3	2.2	0	—	Gas Well
GP-10		1352	20	14.6	6.6	0	—	Gas Well
GP-10		1353	40	13.8	7.4	0	—	Gas Well
GP-11		1345	20	18.4	1.4	0	—	Gas Well
GP-11		1346	40	16.8	2.2	0	—	Gas Well
GP-12		1337	25	18.6	1.6	0	—	Gas Well
GP-12		1338	50	18.6	1.6	0	—	Gas Well
GP-12		1340	75	18.6	1.6	0	—	Gas Well
GP-13		1330	25	17.4	2.0	0	—	Gas Well
GP-13		1331	50	17.2	2.0	0	—	Gas Well
GP-13		1333	75	17.3	1.8	0	—	Gas Well
GP-14		1321	25	18.5	1.2	0	—	Gas Well
GP-14		1322	50	18.5	1.2	0	—	Gas Well
GP-14		1324	75	18.4	1.2	0	—	Gas Well
GP-15		1157	25	19.7	1.2	0	—	Gas Well
GP-15		1158	50	19.7	1.2	0	—	Gas Well
GP-15		1200	75	19.9	1.2	0	—	Gas Well
GP-16		1143	25	19.3	1.2	0	—	Gas Well
GP-16		1144	50	19.1	1.4	0	—	Gas Well
GP-16	↓	1146	75	19.0	1.4	0	—	Gas Well

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

General Data **21Q2**

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

Date:	4-29-21	4-30-21	Sampler:	Steve Messick	
Time:	0850	0905	Sky Conditions:	Clear	Scattered
Air Temperature (deg C):	25°C	26°C	Measuring Device:	Eagle RKI (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	4-29-21	1134	25	16.7	3.6	0	—	Gas Well
GP-17		1135	50	14.8	5.4	0	—	Gas Well
GP-17		1137	75	14.6	5.6	0	—	Gas Well
GP-18		1124	25	19.0	1.4	0	—	Gas Well
GP-18		1125	50	18.3	1.8	0	—	Gas Well
GP-18		1127	75	18.1	1.8	0	—	Gas Well
GP-19		1116	25	18.9	0.8	0	—	Gas Well
GP-19		1117	50	19.7	1.0	0	—	Gas Well
GP-19		1119	75	19.7	1.2	0	—	Gas Well
GP-20		1148	105	17.7	1.8	0	—	Gas Well
GP-21	↓	1129	115	10.6	0.4	0	—	Gas Well
GP-22	4-30-21	1150	70	16.7	0.0	0	—	Gas Well
GP-23	↓	1156	100	9.7	3.0	0	—	Gas Well
GP-24	4-29-21	1514	70	12.6	0.4	0	—	Gas Well
GP-25		1518	100	18.8	0.2	1	—	Gas Well
GP-26		1506	70	17.1	2.6	0	—	Gas Well
GP-27		1501	100	16.4	3.0	0	—	Gas Well
GP-28		1440	70	17.5	3.6	0	—	Gas Well
GP-29		1436	100	17.1	0.0	0	—	Gas Well
GP-30	↓	1203	105	18.6	1.2	0	—	Gas Well
Admin Building	4-30-21	0917	-	20.9	0.0	0	—	Structure
Mod Bldg		0930	-	20.9	0.0	0	—	Structure
Shop		0926	-	20.9	0.0	0	—	Structure
Scale House	↓	0922	-	20.9	0.0	0	—	Structure
Firing Range	↓	0924	-	20.9	0.0	0	—	Structure
Haz Waste Drop-Off Ctr.	4-30-21	0948	-	20.9	0.0	0	—	7 Structures
Equipment Container		0933	-	20.9	0.0	0	—	4 Structures
Storage Building		0928	-	20.9	0.0	0	—	Structure
Small Shed--REMOVED			-					REMOVED
Electronics		0938	-	20.9	0.0	0	—	Structure, Temp
Paints	↓	0945	-	20.9	0.0	0	—	Structure, Temp
Chem container	4-30-21	0943	-	20.9	0.0	0	—	

Notes: Electronic's container located near citizens drop off area  
 Chemical container and paint/battery container located near Haz Waste drop off area.  
 All are cargo containers.

CITRUS COUNTY CENTRAL LANDFILL  
LANDFILL GAS MONITORING RESULTS

Groundwater Monitoring Wells and Piezometers

General Data

Date:	4-29-21	4-30-21	Sampler:	Steve Messick
Time:	0850	1000	Sky Conditions:	Clear   Cloudy
Air Temperature (deg C):	25°C	27°C	Measuring Device:	Eagle RKI (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	4-30-21	1138	18.1	2.8	0	—	Groundwater Well
MW-2	4-29-21	1109	8.5	19.8	0	—	Groundwater Well
MW-3	4-30-21	0758	16.4	3.6	0	—	Groundwater Well
MW-5	↓	1036	8.5	18.4	—	79.0	Groundwater Well
MW-6	↓	1034	9.5	24.8	—	46.0	Groundwater Well
MW-7	↓	1005	6.2	40.8	—	60.0	Groundwater Well
MW-8R	4-29-21	0940	11.8	16.2	0	—	Groundwater Well
MW-9	↓	0946	14.6	10.4	0	—	Groundwater Well
MW-10	4-30-21	1117	15.7	11.0	0	—	Groundwater Well
MW-11	4-29-21	1004	15.9	2.8	0	—	Groundwater Well
MW-12	↓	1018	19.0	2.2	0	—	Groundwater Well
MW-13	↓	1031	10.1	9.8	0	—	Groundwater Well
MW-14	↓	1039	12.9	7.2	0	—	Groundwater Well
MW-15	↓	1046	4.7	20.4	81	—	Groundwater Well
MW-16	4-30-21	1026	6.5	37.8	—	55.5	Groundwater Well
MW-17	4-29-21	1054	4.9	20.2	79	—	Groundwater Well
MW-18	4-30-21	1124	15.7	10.8	0	—	Groundwater Well
MW-18D	↓	1129	18.7	1.4	0	—	Groundwater Well
MW-19	↓	1111	18.3	1.8	0	—	Groundwater Well
MW-19D	↓	1108	16.1	5.4	0	—	Groundwater Well
MW-20	↓	1018	5.5	104.4 41.8	—	63.0	Groundwater Well
MW-21	↓	1048	8.4	18.8	79	—	Groundwater Well
MW-22	↓	1056	7.4	15.8	0	—	Groundwater Well
MW-AA	4-29-21	1024	18.9	2.4	0	—	Groundwater Well
MW-B	↓	0915	17.0	15.6	0	—	Groundwater Well
MW-E	↓	1012	20.4	0.8	0	—	Groundwater Well
PZ-1	↓	0952	15.6	2.8	0	—	Groundwater Well
PZ-2	4-30-21	1602	11.1	7.4	0	—	Groundwater Well

For each groundwater well I lowered +/- 95 feet of tubing into well so I get a reading close to water table

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

SITE NAME Citrus County Central LF DATE 4/29/21  
 INSTRUMENT (MAKE/MODEL#) Eagle Multi-Gas Detector INSTRUMENT # GNV 80023\*  
 Instrument Calibration Date 11/11/16 Reference Meter Book Eagle Meter Book 1

PARAMETER: [check only one]

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL Cl     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 # 122-401728278-1  
 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			
21/04/29	0859	A	14.85	15.0	—	15.0	<1	15.0	∅	—	—	Yes	Init.	Am
	0902	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Am
	1206	A	14.85	15.0	—	15.0	<1	15.5	<2	—	—	Yes	Cont.	Am
	1208	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
	1533	A	14.85	15.0	—	15.0	<1	15.5	<2	—	—	Yes	Cont.	Am
	1534	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am
21/04/30	0857	A	14.85	15.0	—	15.0	<1	14.8	<3	—	—	Yes	Init.	Am
	0859	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Init.	Am
	1202	A	14.85	15.0	—	15.0	<1	15.0	∅	—	—	Yes	Cont.	Am
	1204	B	—	—	21.0	—	—	—	—	20.9	<1	Yes	Cont.	Am

\* Eagle SN E084039