Smith, George

From:	Candia Mulhern <cmulhern@pascocountyfl.net></cmulhern@pascocountyfl.net>
Sent:	Wednesday, September 7, 2022 3:34 PM
То:	SWD_Waste
Cc:	James F. Shannon; Justin G. Roessler; Carissa A. Dennison
Subject:	Resource Recovery (45799) Gas Monitoring - Quarter III, 2022
Attachments:	2022_09_02_Res_Rec_Gas_Monitoring_Submittal.pdf

EXTERNAL MESSAGE

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

Attached please find the results of gas monitoring conducted at the Resource Recovery facility (45799) for Quarter III, 2022.

If you have any questions please feel free to contact me.





Candia E. Mulhern Laboratory Manager Utilities Environmental Laboratory Pasco County P 727-847-8902 F 727-847-8112 8864 Government Drive New Port Richey, FL 34654 cmulhern@pascocountyfl.net

"Serving Our Community to Create a Better Future"



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CUSA18A7



Pasco County Utilities Services Branch Environmental Laboratory 8864 Government Dr. New Port Richey, Fl 34654

Office (727) 847-8902 Fax (727) 847-8112

DHRS #E44123

September 7, 2022

Florida Department of Environmental Protection 13051 N. Telecom Pkwy. Temple Terrace, FL 33637

RE: Pasco County Resource Recovery WACS ID 45799 Quarter III, 2022 Gas Monitoring

To Whom It May Concern:

Enclosed please find the results of gas monitoring conducted at Pasco County Resource Recovery as required in the permit for this facility. The gas monitoring was conducted using a CES Landtec 5000 Gas Meter. The meter was allowed to run until a stable reading was obtained.

This completes the Quarter III, 2022 gas monitoring requirement at this facility. If you have any questions please feel free to contact me.

Sincerely,

Thielde a 14

Candia E. Mulhern Laboratory Manager

ENC.

cc: James Shannon, Acting Utilities Engineering Director Justin Roessler, Solid Waste Deputy Director

UTILITIES ENVIRONMENTAL LABORATORY

727-847-8902 | Environmental Laboratory | 8864 Government Dr. | New Port Richey, FL 34654

Calibration G	AS: QED GAS	Lo	t #4130705		Expires: 1	1/01/2024	Field Co	alibration Date: 09/02/2022
Start Calib: T	√ = 15% CH4	Observed	Value = 15	2%	Meter Cal	ibrated:	Yes Calib	o Time: 07:10 Analyst: JS
			ved Value =		eter Calibi			
	11 - 10/8 C	114 0.0301		1076 141	Her Cullor			Time: 1545 Analyst: JS
COMMENTS: WELL ID	DATE	TIME	WLEV (ft)	% CH4	% L EL	Analyst	Lab ID #	Comments
2MW-1	2-Sep	1306	26.00	0.0	0.0	JS	AD29987	Comments
4MW-1	2-Sep	1258	17.30	0.0	0.0	JS	AD29988	
2MW-2	2-Sep	1217	23.20	0.0	0.0	2L ZL	AD29989	
4MW-2	2-Sep	1211	24.30	0.0	0.0	JS ZL	AD29990	
2MW-4	2-Sep	1118	DRY	0.0	0.0	JS	AD29991	
4MW-4	2-Sep	0949	25.20	0.0	0.0	SC	AD29992	
2MW-5	2-Sep	0930	DRY	0.0	0.0	ZL	AD29993	
4MW-5	2-Sep	0934	22.60	0.0	0.0	ZL	AD29994	
2MW-6	2-Sep	1137	DRY	0.0	0.0	SL	AD29995	
4MW-6	2-Sep	1141	25.80	0.0	0.0	ZL	AD29996	
2MW-7	2-Sep	1337	DRY	0.0	0.0	JS	AD29997	
2MW-8	2-Sep	1332	17.80	0.0	0.0	SL	AD29998	
2MW-10	2-Sep	1324	DRY	0.0	0.0	SL	AD29999	
4MW-11D	2-Sep	0834	35.30	0.0	0.0	SL	AD30000	
4MW-12D	2-Sep	0840	26.40	0.0	0.0	SL	AD30001	
2MW-13	2-Sep	0852	25.90	0.0	0.0	JS	AD30002	
4MW-13D	2-Sep	0856	DRY	0.0	0.0	JS	AD30003	
4MW-14D	2-Sep	09:03	22.90	0.0	0.0	JS	AD30004	
2MW-15DA	2-Sep	0821	22.30	0.0	0.0	JS	AD30005	
2MW-17S	2-Sep	1443	27.70	0.0	0.0	JS	AD30006	Ground-level
2MW-18D	2-Sep	1038	27.20	0.0	0.0	JS	AD30007	
2MW-19D	2-Sep	1044	25.90	0.0	0.0	SL	AD30008	
GMP-1	2-Sep	1027		0.0	0.0	JS	AD30009	
GMP-2	2-Sep	0958		0.0	0.0	SL	AD30010	Marked as 2MW-17S
GMP-3	2-Sep	1003	松子 新政	0.0	0.0	JS	AD30011	
GMP-4	2-Sep	1041		0.0	0.0	JS	AD30012	
GMP-5	2-Sep	1058		0.0	0.0	JS	AD30013	
GMP-6	2-Sep	1020		0.0	0.0	JS	AD30014	
LF OpOFF	2-Sep	1451		0.0	0.0	JS	AD30015	
Scalehouse	2-Sep	1459	10 12 20 2	0.0	0.0	ZL	AD30016	

RESOURCE RECOVERY LANDFILL GAS MONITORING - QTR III 2022



8864 Government Drive
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Phone: (727) 847-8902 Fax: (727) 847-8112
Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Hours: Mon-Fri 8am-5pm

D

% LEL

0

Analysis	Method	Date	Time By	Result Qualifier Unit Detection Limit
REPORT OF ANAL	YSES These results	relate only to the sa	ample indicated above and	meet all requirements of the 2016 TNI standards.
			Delivered By:	JS
Sampled By:	J. STURM		Received By:	
Time Sampled:	14:51		Time Received:	15:47
Date Sampled:	09/02/2022		Date Received:	09/02/2022
Sample Method:	Pumped		Sample Matrix:	GAS
Sample Number:	AD30015		Sample ID:	LF OPERATIONS OFF @ CLASS III
Justin Roessler				
Shady Hills, Fl				
Hays Road				
Class III Landfill				
West Pasco				Report Date: 9/7/2022

09/02/2022 14:51 JS

0

Analysis Comments

Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

West Pasco Landfill Report Date: 9/7/2022 Hays Road Shady Hills, FI Justin Roessler Sample Number: AD30016 Sample ID: SCALE HOUSE @ CLASS III Sample Method: Pumped Sample Matrix: GAS Date Sampled: 09/02/2022 Date Received: 09/02/2022 Time Sampled: 14:59 Time Received: 15:47 Sampled By: J. STURM Received By: Delivered By: JS REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin	METER	09/02/2022	14:59	JS	0	D	% LEL	0

Analysis Comments

Candia Z. Muther

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



26.00

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Feet

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Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Sample Number: Sample Method:	AD29987 Pumped		Sample Sample		2MW1 GAS			
Date Sampled:	09/02/2022	2022 [ate Received: 09/02/2022		2022		
Time Sampled:	13:06	i · · · · · · · · · · · · · · · · · · ·		ceived:	15:47	15:47		
Sampled By:	J. STURM	RM		d By:				
			Delivere	d By:	JS			
REPORT OF ANAL	REPORT OF ANALYSES These results relate			d above and	irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin METER		09/02/2022	13:06	JS	0	D	% LEL	0

09/02/2022 13:06 JS

Analysis Comments

Water Level (Static)

Candia Z. Mulher

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

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Candia E. Mulhern, Laboratory Manager

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8864 Government Drive New Port Richey, FL 34654 Phone: (727) 847-8902 Fax: (727) 847-8112 Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD29989 Pumped 09/02/2022 12:17 J. STURM	aped 2/2022 7		Sample ID: Sample Matrix: Date Received: Time Received: Received By:		2MW2 @ RESREC GAS 09/02/2022 15:47		
REPORT OF ANALYSES These results relate only to the sar Analysis Method Date Percent Lower Explosive Lin METER 09/02/2022			Time By		JS I meet all requ Result 0	irements of the Qualifier D	2016 TNI s Unit % LEL	tandards. Detection Limit 0

12:17 JS

09/02/2022

Analysis Comments

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Candia Z. Mulhen

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137

Page 1 of 1

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

Percent Lower Explosive Lin METER DEP-SOP



DRY

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Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD29991 Pumped 09/02/2022 11:18 J. STURM	elate only to the sam	Sample Sample Date Re Time Re Receive Delivere	Matrix: ceived: ceived: d By: d By:	GAS 09/02/ 15:47 JS			tondordo
		erate only to the samp				irements of the	2016 111 5	tandards.
Analysis Percent Lower Explo	Method sive Lin METER	Date 09/02/2022	Time 11:18	By JS	Result 0	Qualifier D	Unit % LEL	Detection Limit

11:18 JS

09/02/2022

Analysis Comments

 $\ensuremath{\mathsf{U}}\xspace$ = Indicates that the compound was analyzed for but not detected.

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DEP-SOP

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Candia Z. Mulhe

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



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Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD29993 Pumped 09/02/2022 09:30 J. STURM	ese results relate only to the sam		ID: Matrix: ceived: ceived: d By: d By:	GAS 09/02/ 15:47 JS			
REPORT OF ANAL	rses i nese results	relate only to the sam	ple indicate	d above and	i meet all requ	irements of the	2016 TNI s	tandards.
Analysis Percent Lower Explo	Method sive Lin METER	Date 09/02/2022	Time 09:30	By JS	Result 0	Qualifier D	Unit % LEL	Detection Limit

09/02/2022 09:30 JS

Analysis Comments

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DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

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Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



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Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD299995 Pumped 09/02/2022 11:37 J. STURM YSES These results of	elate only to the sam	Sample Sample Date Re Time Re Receive Delivere	Matrix: eceived: eceived: d By: d By:	GAS 09/02/ 15:47 JS			tandards.
Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explo	sive Lin METER	09/02/2022	11:37	JS	0	D	% LEL	

09/02/2022 11:37 JS

Analysis Comments

Candia Z. Mulher

U = Indicates that the compound was analyzed for but not detected.

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DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



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DRY

Hours: Mon-Fri 8am-5pm

% LEL

Feet

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Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, QA/QC Officer

CLIENT/SAMPLE INFORMATION

West Pasco Report Date: 9/7/2022 Class III Landfill Hays Road Shady Hills, Fl

Percent Lower Explosive Lin METER

DEP-SOP

Analysis	Method	Date	Time By	Result Qualifier Unit Detection Limit
REPORT OF ANA	LYSES These res	ults relate only to the s	ample indicated above a	and meet all requirements of the 2016 TNI standards.
			Delivered By:	JS
Sampled By:	J. STURM		Received By:	
Time Sampled:	13:37		Time Received:	15:47
Date Sampled:	09/02/2022		Date Received:	09/02/2022
Sample Method:	Pumped		Sample Matrix:	GAS
Sample Number:	AD29997		Sample ID:	2MW7 @ CLASS III

09/02/2022 13:37 JS

09/02/2022 13:37 JS

Analysis Comments

Water Level (Static)

Candia Z. Mulhan

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Hours: Mon-Fri 8am-5pm

West Pasco Report Date: 9/7/2022 Class III Landfill Hays Road Shady Hills, Fl Justin G. Roessler Sample Number: AD29998 Sample ID: 2MW8 @ CLASS III Sample Method: Pumped Sample Matrix: GAS Date Sampled: 09/02/2022 Date Received: 09/02/2022 Time Sampled: 13:32 Time Received: 15:47 Sampled By: Received By: J. STURM Delivered By: JS **REPORT OF ANALYSES** These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin	METER	09/02/2022	13:32	JS	0	D	% LEL	0
Water Level (Static)	DEP-SOP	09/02/2022	13:32	JS	17.80	D	Feet	0

Analysis Comments

Candia E. Mulher

U = Indicates that the compound was analyzed for but not detected.

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Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



DRY

D

Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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Phone: (727) 847-8902 Fax: (727) 847-8112
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CLIENT/SAMPLE INFORMATION

Resource Recovery Class III Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number:	AD29999		Sample	ID:	2MW ²	IO @ CLASS	5 III	
Sample Method:	Pumped	Imped			Sample Matrix: GAS			
Date Sampled:	09/02/2022		Date Re	ceived:	09/02/	09/02/2022		
Time Sampled:	13:24	4			15:47			
Sampled By:	J. STURM		Receive	d By:				
			Delivere	d By:	JS			
REPORT OF ANAL	YSES These results	relate only to the sam	ple indicate	d above and	l meet all requ	irements of the	2016 TNI s	tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Expl	Percent Lower Explosive Lin METER		13:24	JS	0	D	% LEL	0

09/02/2022 13:24 JS

Analysis Comments

Cantio Z. Mulher

U = Indicates that the compound was analyzed for but not detected.

DEP-SOP

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Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



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Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Sample Number:	AD30002		Sample	ID:	2MW1	3 @ RESRI	EC	
Sample Method:	Pumped	nped		Sample Matrix: GA				
Date Sampled:	09/02/2022	2/2022		Date Received: 09/02/2022		2022		
Time Sampled:	08:52				15:47	15:47		
Sampled By:	J. STURM		Receive	d By:				
			Delivere	d By:	JS			
REPORT OF ANAL	relate only to the sam	ple indicate	d above and	meet all requ	irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explo	osive Lin METER	09/02/2022	08:52	JS	0	D	% LEL	0

09/02/2022 08:52 JS

Analysis Comments

Water Level (Static)

U = Indicates that the compound was analyzed for but not detected.

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DEP-SOP

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MCL=Maximum Contaminant Level

Candia Z. Thul

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



22.30

D

Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Sample Number: Sample Method:	AD30005 Pumped		Sample ID: Sample Matrix:		2MW1 GAS	5 @ RESRE	EC	
Date Sampled:	09/02/2022	9/02/2022		Date Received: 09/02		2/2022		
Time Sampled:	08:21	21		eceived:	15:47			
Sampled By:	J. STURM	TURM		Received By:				
			Delivere	d By:	JS			
REPORT OF ANALYSES These results relate only to the same			ple indicate	d above and	I meet all requ	irements of the	2016 TNI s	tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explo	osive Lin METER	09/02/2022	08:21	JS	0	D	% LEL	0

09/02/2022 08:21 JS

Analysis Comments

Water Level (Static)

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Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

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Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method:	AD30006 Pumped		Sample Sample		2MW17S @ RESREC GAS				
Date Sampled:	09/02/2022	/02/2022		Date Received: (09/02/2022			
Time Sampled:	14:43	43		eceived:	15:47				
Sampled By:	J. STURM	TURM		Received By:					
			Delivered By:		JS				
REPORT OF ANALYSES These results relate only to the same			ple indicate	d above and	l meet all requ	irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit	
Percent Lower Explosive Lin METER		09/02/2022	14:43	JS	0	D	% LEL	0	

09/02/2022

14:43 JS

Analysis Comments

Candia Z. Mulher

27.70

D

Feet

0

Candia E. Mulhern, Laboratory Manager

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27.20

8864 Government Drive New Port Richey, FL 34654 Phone: (727) 847-8902 Fax: (727) 847-8112 Contacts: Annamarie Cangialosi, Administrative Secretary Chris Childress, OA/OC Officer

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number:	AD30007		Sample ID:		2MW 1	8D @ RESI		
Sample Method:	Pumped		Sample Matrix:		GAS	GAS		
Date Sampled:	09/02/2022		Date Received:		09/02/	09/02/2022		
Time Sampled:	10:38	10:38			15:47	15:47		
Sampled By:	J. STURM	M						
				Delivered By: JS				
REPORT OF ANAL	elate only to the sam	ple indicate	d above an	id meet all requ	irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin METER		09/02/2022	10:38	JS	0	D	% LEL	0

10:38 JS

09/02/2022

Analysis Comments

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Cantio Z. Muchen

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137

Page 1 of 1

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

D

Feet

0



Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

% LEL

Feet

D

D

0

0

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

DEP-SOP

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

REPORT OF ANAL	/SES	These results r	elate only to the sa	mple indicate	d above and	meet all requ	irements of the	2016 TNI	standards.
				Delivered By:		JS			
Sampled By:	J. STURM			Receive	d By:				
Time Sampled:	10:44			Time Re	ime Received: 15:4				
Date Sampled:	09/02/2022	2		Date Re	ceived:	09/02/	2022		
Sample Method:	Pumped	ed		Sample	Sample Matrix:		GAS		
Sample Number:	AD30008			Sample	ID:	2MW1	9 @ RESRE	EC	

09/02/2022 10:44 JS

09/02/2022

10:44 JS

0

25.90

Analysis Comments

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Cantio Z. Mulhe

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



Report Date: 9/7/2022

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Analysis	Method	Date	Time By	Result	Qualifier	Unit	Detection Limit		
REPORT OF ANAL	YSES These results	relate only to the sa	ample indicated above a	nd meet all requ	irements of the	2016 TNI	standards.		
			Delivered By:	JS					
Sampled By:	J. STURM		Received By:						
Time Sampled:	12:58		Time Received:	15:47	15:47				
Date Sampled:	09/02/2022		Date Received:	09/02/	2022				
Sample Method:	Pumped	Sample Matrix:	GAS	GAS					
Sample Number:	AD29988		Sample ID:	4MW1	4MW1 @ RESREC				

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin	METER	09/02/2022	12:58	JS	0	D	% LEL	0
Water Level (Static)	DEP-SOP	09/02/2022	12:58	JS	17.30	D	Feet	0

Analysis Comments

Cantio E. Muchen

Candia E. Mulhern, Laboratory Manager

 $\ensuremath{\textbf{U}}$ = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

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MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



24.30

D

Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Sample Number:	AD29990		Sample ID:		4MW2	2 @ RESRE	С	
Sample Method:	Pumped	Imped		Sample Matrix:				
Date Sampled:	09/02/2022	/02/2022		Date Received: 09/		09/02/2022		
Time Sampled:	12:11	12:11		eceived:	15:47			
Sampled By:	J. STURM		Received By:					
			Delivere	d By:	JS			
REPORT OF ANALYSES These results relate only to			ple indicate	d above and	I meet all requ	irements of the	2016 TNI s	tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin METER		09/02/2022	12:11	JS	0	D	% LEL	0

09/02/2022

12:11 JS

Analysis Comments

Water Level (Static)

Candia Z. Mulhen

Candia E. Mulhern, Laboratory Manager

 $\ensuremath{\mathsf{U}}$ = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number:	AD2999	92		Sample ID:		4MW4	4MW4 @ RESREC			
Sample Method:	Pumpeo	nped		Sample Matrix:		GAS	GAS			
Date Sampled:	09/02/2	2/2022		Date Re	ate Received: 09/02/2022		2022			
Time Sampled:	09:49	9		Time Re	ceived:	15:47				
Sampled By:	J. STUF	TURM		Received By:						
				Delivere	d By:	JS				
REPORT OF ANALYSES These results related		relate only to the sam	ple indicate	d above and	d meet all requ	irements of the	2016 TNI s	tandards.		
Analysis Method		Date	Time	Ву	Result	Qualifier	Unit	Detection Limit		
Percent Lower Explosive Lin METE		VIETER	09/02/2022	09:49	JS	0	D	% LEL	0	

09/02/2022 09:49 JS

Analysis Comments

Candia Z. Milhen

Candia E. Mulhern, Laboratory Manager

25.20

D

Feet

0

 $\ensuremath{\mathsf{U}}$ = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Analysis	Mathod	Data	Time Bu	D	ocult	Qualifier	Unit	Dotoction Limi		
REPORT OF ANAL	YSES These results	relate only to the s	ample indicated abo	ve and mee	t all requ	irements of the	2016 TNI	standards.		
			Delivered By		JS					
Sampled By:	J. STURM		Received By	:						
Time Sampled:	09:34	:34		ed:	15:47					
Date Sampled:	09/02/2022		Date Receiv	ed:	09/02/	2022				
Sample Method:	Pumped	•		rix:	GAS					
Sample Number:	AD29994		Sample ID:		4MW5 @ RESREC					

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Lin	METER	09/02/2022	09:34	JS	0	D	% LEL	0
Water Level (Static)	DEP-SOP	09/02/2022	09:34	JS	22.60	D	Feet	0

Analysis Comments

Cantio E. Thul

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



25.80

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

Feet

0

D

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD29996 Pumped 09/02/2022 11:41 J. STURM			Sample ID: Sample Matrix: Date Received: Time Received: Received By: Delivered By:		4MW6 @ RESREC GAS 09/02/2022 15:47		
REPORT OF ANALYSES These results relat		relate only to the sam		*	JS I meet all requ	irements of the	2016 TNI s	tandards.
Analysis Percent Lower Explo	Method osive Lin METER	Date 09/02/2022	Time 11:41	By JS	Result 0	Qualifier D	Unit % LEL	Detection Limit

09/02/2022 11:41 JS

Analysis Comments

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia Z. Miller

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



35.30

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

D

Feet

0

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD30000 Pumped 09/02/2022 08:34 J. STURM		Sample ID: Sample Matrix: Date Received: Time Received: Received By: Delivered By:		4MW1 GAS 09/02/ 15:47 JS	11D @ RESF 2022	REC	
REPORT OF ANAL	YSES These results	relate only to the sam		-		irements of the	2016 TNI s	tandards.
Analysis Percent Lower Explo	Method	Date 09/02/2022	Time 08:34	By JS	Result	Qualifier D	Unit % LEL	Detection Limit

09/02/2022 08:34 JS

Analysis Comments

Candia E. Muchen

Candia E. Mulhern, Laboratory Manager

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DEP-SOP

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MCL=Maximum Contaminant Level

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Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

D

Feet

0

26.40

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled:	lethod: Pumped pled: 09/02/2022		Sample ID: Sample Matrix: Date Received:			4MW12D @ RESREC GAS 09/02/2022 15:47				
Time Sampled: Sampled By:	08:40 J. STURM		Time Received: Received By: Delivered By:							
REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.								tandards.		
Analysis Percent Lower Explo	Method osive Lin METER	Date 09/02/2022	Time 08:40	By JS	Result 0	Qualifier D	Unit % LEL	Detection Limit		

09/02/2022 08:40 JS

Analysis Comments

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

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MCL=Maximum Contaminant Level

Candia E. Mulher

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



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Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin G. Roessler

Water Level (Static)

Sample Number: AD30003 Sample ID: 4MW13D @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 09/02/2022 Date Received: 09/02/2022 Time Sampled: Time Received: 08:56 15:47 Sampled By: J. STURM Received By: Delivered By: JS **REPORT OF ANALYSES** These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. Analysis Method Date Time By Result Qualifier Unit **Detection Limit** Percent Lower Explosive Lin METER 09/02/2022 08:56 JS 0 D % LEL 0

08:56

JS

DRY

D

Feet

0

09/02/2022

Analysis Comments

Candia Z. Mulhen

Candia E. Mulhern, Laboratory Manager

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

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State Laboratory ID: E44123 EPA Lab Code: FL00137



22.90

D

Feet

0

Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin G. Roessler

Water Level (Static)

Sample Number: Sample Method: Date Sampled: Time Sampled: Sampled By:	AD30004 Pumped 09/02/2022 09:03 J. STURM YSES These r	esults relate only to the samp	Sample Sample Date Re Time Re Receive Delivere	Matrix: ceived: ceived: d By: d By:	GAS 09/02/ 15:47 JS			tandards.
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explo	sive Lin METER	09/02/2022	09:03	JS	0	D	% LEL	0

09/02/2022 09:03 JS

Analysis Comments

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DEP-SOP

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

D

% LEL

0

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin Roessler

Sample Number: AD30009 Sample ID: GMP1 @ RESREC Sample Method: Pumped Sample Matrix: GAS Date Sampled: 09/02/2022 Date Received: 09/02/2022 Time Sampled: 10:27 Time Received: 15:47 Sampled By: Received By: J. STURM Delivered By: JS **REPORT OF ANALYSES** These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. Analysis Method Date Time Result By Qualifier Unit **Detection Limit**

10:27 JS

0

09/02/2022

Analysis Comments

U = Indicates that the compound was analyzed for but not detected.

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XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Cantio Z. Miller

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137



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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin Roessler

Sample Number: AD30010			Sample ID:		GMP2	GMP2 @ RESREC				
Sample Method:	Pumped		Sample Matrix:		GAS	GAS				
Date Sampled:	te Sampled: 09/02/2022		Date Received:		09/02/					
Time Sampled: 09:58			Time Received:			15:47				
Sampled By:	J. STURM		Received By:							
			JS							
REPORT OF ANAL	REPORT OF ANALYSES These results relate only				d meet all requ	irements of the	2016 TNI s	tandards.		
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit		
Percent Lower Expl	osive Lin METER	09/02/2022	09:58	JS	0	D	% LEL	0		

Analysis Comments

Candia Z. Mulher

Candia E. Mulhern, Laboratory Manager

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XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin Roessler

Sample Number:	Number: AD30011		Sample ID:			GMP3 @ RESREC			
Sample Method:	Pumped	Pumped		Sample Matrix:		GAS			
Date Sampled:	09/02/2022		Date Received:		09/02/	09/02/2022			
Time Sampled:	10:03		Time Received:		15:47				
Sampled By:	J. STURM		Received By:						
			Delivere	d By:	JS				
REPORT OF ANAL	YSES These results	relate only to the sam	ple indicate	d above and	l meet all requ	irements of the	2016 TNI s	tandards.	
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit	
Percent Lower Explosive Lin METER		09/02/2022	10:03	JS	0	D	% LEL	0	

Analysis Comments

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XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia 2. Thulk

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Percent Lower Explosive Lin METER

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin Roessler

Analysis	Method	Date	Time By	Result	Qualifier	Unit	Detection Limit
REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.							
			Delivered By	JS			
Sampled By:	J. STURM		Received By				
Time Sampled:	10:41		Time Receiv	ed: 15:47			
Date Sampled:	09/02/2022		Date Receive	ed: 09/02	/2022		
Sample Method:	Pumped		Sample Mat	ix: GAS	GAS		
Sample Number:	AD30012	AD30012		GMP4	4 @ RESRE	0	

09/02/2022 10:41 JS

Analysis Comments

Cantio Z. Mulher

Candia E. Mulhern, Laboratory Manager

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XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137

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D

% LEL

0

Hours: Mon-Fri 8am-5pm Report Date: 9/7/2022



Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

Justin Roessler

Sample Number:	AD30013		Sample ID:			GMP5 @ RESREC			
Sample Method:	Pumped	Pumped		Sample Matrix:		GAS			
Date Sampled:	09/02/2022	9/02/2022		Date Received:		09/02/2022			
Time Sampled:	10:58		Time Received:		15:47	15:47			
Sampled By: J. STURM		Received By:							
			JS						
REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 2016 TNI stand						standards.			
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit	
Percent Lower Explosive Lin METER		09/02/2022	10:58	JS	0	D	% LEL	0	

Analysis Comments

Candia Z. Milhen

U = Indicates that the compound was analyzed for but not detected.

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XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

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State Laboratory ID: E44123 EPA Lab Code: FL00137



Hours: Mon-Fri 8am-5pm

Report Date: 9/7/2022

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Justin Roessler

Sample Number:	ber: AD30014		Sample ID:		GMP6	GMP6 @ RESREC				
Sample Method:	Pumped	Pumped		Sample Matrix:		GAS				
Date Sampled:	09/02/2022	22		Date Received:		09/02/2022				
Time Sampled:	10:20		Time Received: 15:47							
Sampled By:	J. STURM		Received By:							
			Delivere	d By:	JS					
REPORT OF ANALYSES These results relate only to the sample indicated above and meet all requirements of the 201						2016 TNI s	tandards.			
Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit		
Percent Lower Explosive Lin METER		09/02/2022	10:20	JS	0	D	% LEL	0		

Analysis Comments

Cantio E. Mulher

U = Indicates that the compound was analyzed for but not detected.

I = Reported value is greater than or equal to the detection limit, but less than PQL.

XC = Reported value exceeds the MCL (F.A.C. 62-550).

MCL=Maximum Contaminant Level

Candia E. Mulhern, Laboratory Manager

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137