Johnson, Sabrina O

From: Candia Mulhern <cmulhern@pascocountyfl.net>

Sent: Wednesday, February 27, 2019 12:04 PM

To: SWD_Waste

Cc: Charles Cullen; John Power; Justin G. Roessler

Subject: 2019_QI_45799_Gas_Monitoring **Attachments:** 2019_QI_45799_Gas_Monitoring.pdf

Attached are the results of gas monitoring conducted at the Pasco County Resource Recovery site, WACS ID 45799, for QI, 2019.

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



Candia E. Mulhern

Laboratory Manager Utilities Environmental Lab

Pasco County

P 727-847-8902

F 727-847-8112

8864 Government Dr.

New Port Richey, Fl 34654

cmulhern@pascocountyfl.net

"Serving our community to create a better future."



"Bringing Opportunities Home"

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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

February 27, 2019

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

RE: Pasco County Resource Recovery WACS ID 45799 Quarter I, 2019 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. Calibration of the instrument was conducted prior to field analysis using a 40% methane gas and 50% LEL methane gas. The meter was allowed to run until a stable reading was obtained. All wells recorded 0.00% LEL at this site.

This completes the Quarter I, 2019 gas monitoring requirement at this facility. If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern Laboratory Manager

ENC.

cc: Charles Cullen, PI Engineering Director John Power, Solid Waste Director Justin Roessler, Solid Waste Deputy Director



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

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76436

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled:

8:23

Sampled By:

GT

Sample ID:

2MW1 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:23	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:23	GST	14.10	D	Feet	0

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

Candia E. Mulhern, Laboratory Manager

Candia E. Mulhen

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Shady Hills, Fl

Hays Road

John Power

Sample Number: AC76437

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled: Sampled By:

8:21

GT

Sample ID:

4MW1 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:21	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:21	GST	14.39	D	Feet	0

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

Candia E. Mulhern, Laboratory Manager

landio E. Mulher

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Report Date: 2/27/2019

Resource Recovery

Class | Landfill Hays Road Shady Hills, FI John Power

Sample Method:

Sample Number: AC76438

Pumped

CLIENT/SAMPLE INFORMATION

Date Sampled: 1/18/2019

Time Sampled: 8:34

Sampled By:

Sample ID: 2MW2 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:34	GST	0	Đ	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:34	GST	18.92	D	Feet	0

Analysis Comments:

Carlie E. Mulh

Candia E. Mulhern, Laboratory Manager

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Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76439

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled: 8:36

Sampled By:

Sample ID: 4MW2 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	8:36	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:36	GST	19.15	D	Feet	0

Analysis Comments:

Cardio E. Mulher

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76440 Sample Method:

Pumped

Date Sampled: 1/18/2019

Time Sampled: 8:50

Sampled By:

Sample ID:

2MW4 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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,

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:50	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:50	GST	DRY	D	Feet	0

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

Candia E. Mulhern, Laboratory Manager

landin Z. Mulhamme

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

_ _

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Class I Landfill Hays Road Shady Hills, Fl John Power

Resource Recovery

Sample Number: AC76441

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

9:41

Sampled By:

Sample ID: 4MW4 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	9:41	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:41	GST	21.03	D	Feet	0

Analysis Comments:

Carlie E. Mulhamon

Candia E. Mulhern, Laboratory Manager

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Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

Resource Recovery

Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76442

Sample Method:

CLIENT/SAMPLE INFORMATION

Pumped

Date Sampled:

1/18/2019 8:58

Time Sampled: Sampled By:

Sample ID:

2MW5 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:58	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:58	GST	DRY	D	Feet	0

Analysis Comments:

Candio E. Mulher

Candia E. Mulhern, Laboratory Manager

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

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MCL=Maximum Contaminant Level

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76443

Pumped

Sample Method:

1/18/2019

Date Sampled: Time Sampled:

8:55

Sampled By:

Sample ID:

4MW5 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:55	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:55	GST	18.42	D	Feet	0

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).

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Candia E. Mulhern, Laboratory Manager

Candio E. Mulher

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Chris Childress, OA/OC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

2MW6 @ RESREC

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road

Shady Hills, Fl John Power

Sample Number: AC76444

Sample Method:

REPORT OF ANALYSES

Pumped

Date Sampled:

1/18/2019

Time Sampled: Sampled By:

8:41

Time Received: 14:35 Received By:

Delivered By:

Sample Matrix: GAS

Date Received: 1/18/2019

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 Limit	METER	1/18/2019	8:41	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:41	GST	22.23	D	Feet	0

Sample ID:

Analysis Comments:

Candia E. Mulhen

Candia E. Mulhern, Laboratory Manager

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

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Chris Childress, OA/OC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76445

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

8:44

Sampled By:

Sample ID:

4MW6 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35 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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	8:44	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:44	GST	21.60	D	Feet	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

landia E. Mille

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

State Laboratory ID: E44123 EPA Lab Code: FL00137

Page 10 of 30

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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

West Pasco Class III Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76446

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

9:17

Sampled By:

Sample ID:

2MW7 @ CLASS III

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	9:17	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:17	GST	DRY	D	Feet	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

Carlin E. Miller

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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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

West Pasco Class III Landfill Hays Road Shady Hills, Fl

Sample Number: AC76447

John Power

Pumped

Sample Method: Date Sampled:

1/18/2019

Time Sampled:

9:27

Sampled By:

Sample ID:

2MW8 @ CLASS III

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	9:27	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:27	GST	DRY	D	Feet	0

Analysis Comments:

la Sio E. Mulher

Candia E. Mulhern, Laboratory Manager

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

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Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class III Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76448

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled: 9:24

Sampled By:

Sample ID: 2MW10 @ CLASS III

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By:

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. **REPORT OF ANALYSES**

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	9:24	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:24	GST	DRY	D	Feet	0

Analysis Comments:

Candio 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

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI John Power

Sample Number: AC76449

Sample Method:

Pumped

Date Sampled:

1/18/2019

10:40

Time Sampled: Sampled By:

Sample ID:

4MW11D @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	10:40	GST	0	D	% LEL	0
Percent Volume Methane	METER	1/18/2019	10:40	GST	0	D	% VOL	0
Water Level	DEP-SOP	1/18/2019	10:40	GST	31.66	D	Feet	0

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

Candia E. Mulhern, Laboratory Manager

andio E. Mulher

State Laboratory ID: E44123 EPA Lab Code: FL00137

This Document Meets All the Requirements of the 2016 TNI Standards

Page 14 of 30



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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76450

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

10:44

Sampled By:

Sample ID: 4MW12D @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	10:44	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	10:44	GST	22.74	D	Feet	0

Analysis Comments:

Cambia E. Mulher

Candia E. Mulhern, Laboratory Manager

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).

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76451

Sample Method:

Pumped

Date Sampled:

1/18/2019

10:48

Time Sampled: Sampled By:

Sample ID:

2MW13 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	10:48	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	10:48	GST	DRY	D	Feet	0

Analysis Comments:

Cambio 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

State Laboratory ID: E44123 EPA Lab Code: FL00137

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Class I Landfill Hays Road Shady Hills, FI John Power

Resource Recovery

Sample Number: AC76453

Sample ID:

4MW14D @ RESREC

Sample Method:

Pumped

Sample Matrix: GAS

Date Sampled:

1/18/2019

Date Received: 1/18/2019

Time Sampled:

Sampled By:

10:54

Time Received: 14:35 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.

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	10:54	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	10:54	GST	19.25	D	Feet	0

Analysis Comments:

Candio 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.

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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Phone: (727) 847-8902 Fax: (727) 847-8112

Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76454

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled:

8:28

Sampled By:

Sample ID:

2MW15 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	8:28	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	8:28	GST	19.29	D	Feet	0

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

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State Laboratory ID: E44123 EPA Lab Code: FL00137

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Candio E. Mulher

Candia E. Mulhern, Laboratory Manager



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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76455

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

9:53

Sampled By:

Sample ID: 2MW17S @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

REPORT OF ANALYSESThese 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 Limit	METER	1/18/2019	9:53	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:53	GST	23.60	D	Feet	0

Analysis Comments:

Candia 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

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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl John Power

Sample Number: AC76456

Sample Method: Pumped

Date Sampled: 1/18/2019

9:58

Time Sampled:

Sampled By:

Sample ID: 2M\

D: 2MW18D @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

REPORT OF ANALYSESThese 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 Limit	METER	1/18/2019	9:58	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	9:58	GST	23.00	D	Feet	0

Analysis Comments:

lande E. 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

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2MW19 @ RESREC

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Phone: (727) 847-8902 Fax: (727) 847-8112

Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Sample Matrix: GAS

Date Received: 1/18/2019

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, Fl

Sample Number: AC76457 Sample Method:

Pumped

Date Sampled:

John Power

1/18/2019

Time Sampled: Sampled By:

10:02

Time Received: 14:35 Received By:

Sample ID:

Delivered By:

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

GT

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	10:02	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	10:02	GST	21.79	D	Feet	0

Analysis Comments:

Candia Z. Mulhe

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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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76458

Sample Method: Pumped

Date Sampled: 1/18/2019

11:17

Time Sampled:

Sampled By:

Sample ID: GMP1 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Limit	METER	1/18/2019	11:17	GST	0	D	% LEL	0
Percent Volume Methane	METER	1/18/2019	11:17	GST	0	D	% VOL	0

Analysis Comments:

....

Candia E. Mulhern, Laboratory Manager

Canlie 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

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Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76459

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled: 11:05

Sampled By: GT

Sample ID:

Sample ID: G

GMP2 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35 Received By: GT

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Analysis Detection Limit Method Date Time Ву Result Qualifier Unit Percent Lower Explosive Limit **METER** 1/18/2019 11:05 **GST** D % LEL 0

Analysis Comments:

Candia E. 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

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Chris Childress, OA/OC Officer

Hours: Mon-Fri 8am-5pm Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Class I Landfill Hays Road Shady Hills, FI John Power

Resource Recovery

Sample Number: AC76460

Pumped

Sample Method:

Date Sampled:

Time Sampled:

Sampled By:

Analysis

1/18/2019

9:37 GT

Sample ID:

GMP3 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By: GT

Delivered By: **GT**

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

Percent Lower Explosive Limit

Method

Date

Time

Bv

Result

Qualifier Unit

Detection Limit

METER 1/18/2019 0 9:37 **GST** 0 D % LEL

Analysis Comments:

landio E. 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

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Chris Childress, OA/OC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class | Landfill Hays Road Shady Hills, Fl

John Power

Sample Number: AC76461

Sample Method: Pumped

Date Sampled: 1/18/2019

Time Sampled:

10:00 Sampled By:

Sample ID:

GMP4 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

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 Bv Result Qualifier Unit **Detection Limit** Percent Lower Explosive Limit **METER** 1/18/2019 D 10:00 **GST** 0 0 % LEL

Analysis Comments:

Candio E. 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

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Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, F! John Power

Sample Number: AC76462

Sample Method:

Pumped

Date Sampled:

1/18/2019 10:05

Time Sampled: Sampled By:

Analysis

Sample ID:

GMP5 @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: **GT**

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards.

By

Percent Lower Explosive Limit

Method **METER** Date

1/18/2019

Time 10:05

GST

0.1

Result Qualifier Unit D

Detection Limit

0 % LEL

Analysis Comments:

Candia 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

State Laboratory ID: E44123 EPA Lab Code: FL00137

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GMP6 @ RESREC

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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Class I Landfill Hays Road Shady Hills, FI

Resource Recovery

John Power

Sample Number: AC76463

Sample Method:

Pumped

Date Sampled:

9:35

Time Sampled: Sampled By:

1/18/2019

Sample ID:

Time Received: 14:35 Received By:

> Delivered By: GT

Sample Matrix: GAS

Date Received: 1/18/2019

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. **REPORT OF ANALYSES**

Analysis	Method	Date	Time	Ву	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/18/2019	9:35	GST	0.1	D	% LEL	0
Percent Volume Methane	METER	1/18/2019	9:35	GST	0	D	% VOL	0

Analysis Comments:

Candia Z. Phulher

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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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

West Pasco Class III Landfill Hays Road Shady Hills, FI

Sample Number: AC76464

John Power

Pumped

Sample Method: Date Sampled:

1/18/2019

11:23

Time Sampled: Sampled By:

Analysis

GT

Sample ID:

LF OPERATIONS OFF @ CLASS III

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By: **GT**

Delivered By: **GT**

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. By

GST

Percent Lower Explosive Limit

Method **METER** Date

1/18/2019

Time

11:23

Result 0

Qualifier Unit D

Detection Limit

0 % LEL

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

Candia E. Mulhern, Laboratory Manager

Candia E. Mulher

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Contacts: Annamarie Cangialosi, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

West Pasco Resource Recovery

14230 HAYS RD.

SPRING HILL, FL 34610

John Power

Sample Number: AC76465

Sample Method:

Date Sampled: 1/18/2019

Time Sampled:

11:29

GT

Sampled By:

Analysis

Sample ID:

SCALE HOUSE AT RES RECOVERY CLASS II

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By:

Delivered By: GT

REPORT OF ANALYSES

These results relate only to the sample indicated above and meet all requirements of the 2016 TNI standards. By

Percent Lower Explosive Limit

Method **METER** Date

1/18/2019

11:29

GST

Result

0

D

Qualifier Unit **Detection Limit** % LEL

0

Analysis Comments:

Carlio E. Mulhe

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

State Laboratory ID: E44123 EPA Lab Code: FL00137

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Chris Childress, OA/OC Officer

Hours: Mon-Fri 8am-5pm

Report Date: 2/27/2019

CLIENT/SAMPLE INFORMATION

Resource Recovery Class I Landfill Hays Road Shady Hills, FI

John Power

Sample Number: AC76671

Sample Method:

Pumped

Date Sampled:

1/18/2019

Time Sampled: Sampled By:

10:50

GT

Sample ID:

4MW13D @ RESREC

Sample Matrix: GAS

Date Received: 1/18/2019

Time Received: 14:35

Received By: LR

Delivered By: **GT**

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 Limit	METER	1/18/2019	10:50	GST	0	D	% LEL	0
Water Level	DEP-SOP	1/18/2019	10:50	GST	DRY	D	Feet	0

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

This Document Meets All the Requirements of the 2016 TNI Standards

State Laboratory ID: E44123 EPA Lab Code: FL00137

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landio E. Mulle

Candia E. Mulhern, Laboratory Manager