

Hsu, Benjamin

From: Candia Mulhern <cmulhern@pascocountyfl.net>
Sent: Thursday, February 01, 2018 10:14 AM
To: Borderieux, Scott; SWD_Waste
Cc: Robert Sigmond; Allan Biddlecomb; Justin G. Roessler
Subject: Resource Recovery QI, 2018 Gas Monitoring
Attachments: 2018_01_Res_Rec_Gas_Monitoring.pdf

Attached please find the reports of gas monitoring conducted at the Pasco County Resource Recovery Site for Q1, 2018.



Candia E. Mulhern
Laboratory Manager
Utilities Environmental Lab
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"Serving our community to create a better future."



"Bringing Opportunities Home"

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

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Fax (727) 847-8112
DHRS #E44123

February 1, 2018

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

RE: Pasco County Resource Recovery
WACS ID 45799
Quarter I, 2018, Gas Monitoring

Dear Mr. Borderieux:

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 for three minutes and the highest reading obtained was recorded. All wells, except for GMP4 which had a 20% LEL, recorded 0.00% LEL at this site.

This completes the Quarter I, 2018 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: Robert J. Sigmond, Utilities Fiscal and Business Services Director
Allan Biddlecomb, Solid Waste Director
Justin Roessler, Solid Waste Deputy Director

UTILITIES ENVIRONMENTAL LABORATORY

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



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Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

West Pasco Landfill

Report Date: 1/25/2018

Hays Road
Shady Hills, FL
John Power

Sample Number:	AC62902	Sample ID:	SCALE HOUSE @ CLASS III
Sample Method:	Pumped	Sample Matrix:	GAS
Date Sampled:	1/22/2018	Date Received:	1/22/2018
Time Sampled:	9:28	Time Received:	15:25
Sampled By:	MARIAN B	Received By:	AS
		Delivered By:	MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	9:28	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	9:28	MBER	0	D	% VOL	0

Analysis Comments:

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 2003 NELAC Standards



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CLIENT/SAMPLE INFORMATION

West Pasco
Class III Landfill
Hays Road
Shady Hills, FL
John Power

Report Date: 1/25/2018

Sample Number:	AC62901	Sample ID:	LF OPERATIONS OFF @ CLASS III
Sample Method:	Pumped	Sample Matrix:	GAS
Date Sampled:	1/22/2018	Date Received:	1/22/2018
Time Sampled:	11:20	Time Received:	15:25
Sampled By:	MARIAN B	Received By:	AS
		Delivered By:	MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:20	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:20	MBER	0	D	% VOL	0

Analysis Comments:

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62769**

Sample ID: 2MW1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:28

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:28	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:28	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	10:10	MBER	15.41	D	Feet	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62770**

Sample ID: 4MW1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:34

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:34	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:34	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	10:08	MBER	15.90	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.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 1/30/2018

Sample Number: **AC62771**

Sample ID: 2MW2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 12:10

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	12:10	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	12:10	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	13:41	MBER	20.52	D	Feet	0

Analysis Comments:

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62772**

Sample ID: 4MW2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 12:14

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	12:14	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	12:14	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	13:43	MBER	20.82	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.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62773**

Sample ID: 2MW4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 14:34

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	14:34	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	14:34	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:01	MBER	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.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 1/30/2018

Sample Number: **AC62774**

Sample ID: 4MW4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 14:00

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	14:00	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	14:00	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:06	MBER	22.71	D	Feet	0

Analysis Comments:

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62775**

Sample ID: 2MW5 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:08

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:08	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:08	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:53	MBER	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).

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62776**

Sample ID: 4MW5 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:12

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:12	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:12	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:57	MBER	20.14	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62777**

Sample ID: 2MW6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 12:20

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	12:20	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	12:20	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	13:48	MBER	23.18	D	Feet	0

Analysis Comments:

Candia E. Mulhern, Laboratory Manager

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 1/30/2018

Sample Number: **AC62778**

Sample ID: 4MW6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 12:22

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	12:22	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	12:22	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	13:51	MBER	23.76	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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CLIENT/SAMPLE INFORMATION

West Pasco
Class III Landfill
Hays Road
Shady Hills, FL
John Power

Report Date: 2/1/2018

Sample Number: **AC62779**

Sample ID: 2MW7 @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 9:32

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	9:32	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	9:32	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	15:14	MBER	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.

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CLIENT/SAMPLE INFORMATION

West Pasco

Class III Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 1/30/2018

Sample Number: **AC62780**

Sample Method: Pumped

Date Sampled: 1/22/2018

Time Sampled: 9:45

Sampled By: MARIAN B

Sample ID: 2MW8 @ CLASS III

Sample Matrix: GAS

Date Received: 1/22/2018

Time Received: 15:25

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	9:45	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	9:45	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	15:09	MBER	17.55	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.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class III Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62781**

Sample ID: 2MW10 @ CLASS III

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 9:40

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	9:40	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	9:40	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	15:06	MBER	DRY	D	Feet	0

Analysis Comments:

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

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Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62782**

Sample ID: 4MW11D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:00

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:00	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:00	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:31	MBER	33.28	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

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8864 Government Drive

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Contacts: Gloria Krueger, Administrative Secretary

Chris Childress, QA/QC Officer

Hours: Mon-Fri 8am-5pm

CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62783**

Sample ID: 4MW12D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:04

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:04	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:04	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:34	MBER	24.24	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62784**

Sample ID: 2MW13 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:10

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:10	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:10	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:45	MBER	20.95	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62785**

Sample ID: 4MW13D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:07

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:07	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:07	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:45	MBER	23.71	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62786**

Sample ID: 4MW14D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 11:15

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	11:15	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	11:15	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:49	MBER	20.86	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62787**

Sample ID: 2MW15 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 12:04

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	12:04	MBER	2.0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	12:04	MBER	0.1	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	13:32	MBER	20.84	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.

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Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62788**

Sample ID: 2MW17S @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 14:43

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	14:43	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	14:43	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:16	MBER	25.31	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.

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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62789**

Sample ID: 2MW18D @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:33

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:33	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:33	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:20	MBER	24.74	D	Feet	0

Analysis Comments:

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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/30/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62790**

Sample ID: 2MW19 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:23

Time Received: 15:25

Sampled By: MARIAN B

Received By: TS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:23	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:23	MBER	0	D	% VOL	0
Water Level	DEP-SOP	1/24/2018	14:24	MBER	23.49	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/25/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62895**

Sample ID: GMP1 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:37

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:37	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:37	MBER	0	D	% VOL	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/25/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62896**

Sample ID: GMP2 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:42

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:42	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:42	MBER	0	D	% VOL	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/25/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62897**

Sample ID: GMP3 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:45

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:45	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:45	MBER	0	D	% VOL	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/25/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62898**

Sample ID: GMP4 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:30

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:30	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:30	MBER	0	0	% VOL	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Report Date: 1/25/2018

Sample Number: **AC62899**

Sample ID: GMP5 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:19

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:19	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:19	MBER	0	D	% VOL	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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CLIENT/SAMPLE INFORMATION

Resource Recovery

Report Date: 1/25/2018

Class I Landfill

Hays Road

Shady Hills, FL

John Power

Sample Number: **AC62900**

Sample ID: GMP6 @ RESREC

Sample Method: Pumped

Sample Matrix: GAS

Date Sampled: 1/22/2018

Date Received: 1/22/2018

Time Sampled: 10:48

Time Received: 15:25

Sampled By: MARIAN B

Received By: AS

Delivered By: MB

REPORT OF ANALYSES

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

Analysis	Method	Date	Time	By	Result	Qualifier	Unit	Detection Limit
Percent Lower Explosive Limit	METER	1/22/2018	10:48	MBER	0	D	% LEL	0
Percent Volume Methane	METER	1/22/2018	10:48	MBER	0	D	% VOL	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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