



April 27, 2010

Ms. Kate Brackett
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399

Re: 2010 Soils Project
Work Order: 251078

Dear Ms. Brackett:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 14, 2010. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4422.

Sincerely,

Jake Crook
Project Manager

Purchase Order: A1CD73
Enclosures

List of current GEL Certifications as of 27 April 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

FLAD001 Florida DEP

Client SDG: 251078 GEL Work Order: 251078

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Jake Crook.

Reviewed by



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Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262531
Sample ID: 251078001
Matrix: Water
Collect Date: 05-APR-10 17:45
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, liquid "As Received"</i>											
Alpha	U	ND	+/-1.41	2.71	5.00	pCi/L	DXB5	04/20/10	1344	975105	1
Beta	U	ND	+/-2.06	3.68	5.00	pCi/L					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0	

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Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262532
Sample ID: 251078002
Matrix: Water
Collect Date: 05-APR-10 18:30
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, liquid "As Received"</i>											
Alpha	U	ND	+/-1.54	2.60	5.00	pCi/L	DXB5	04/20/10	1344	975105	1
Beta	U	ND	+/-1.84	2.83	5.00	pCi/L					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0	

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Certificate of Analysis

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262811
Sample ID: 251078005
Matrix: Soil
Collect Date: 05-APR-10 17:05
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.34	+/-2.47	2.85	4.00	pCi/g	DXF3	04/26/10	2133	976093	1
Beta	U	ND	+/-1.70	3.08	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262812
Sample ID: 251078006
Matrix: Soil
Collect Date: 05-APR-10 16:40
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.11	3.13	4.00	pCi/g	DXF3	04/26/10	2132	976093	1
Beta	U	ND	+/-2.21	3.54	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262813
Sample ID: 251078007
Matrix: Soil
Collect Date: 05-APR-10 16:10
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.61	3.39	4.00	pCi/g	DXF3	04/26/10	2133	976093	1
Beta	U	ND	+/-2.14	4.12	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262814
Sample ID: 251078008
Matrix: Soil
Collect Date: 05-APR-10 16:20
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		7.52	+/-3.45	2.68	4.00	pCi/g	DXF3	04/26/10	2132	976093	1
Beta		7.96	+/-3.71	4.40	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262815
Sample ID: 251078009
Matrix: Soil
Collect Date: 06-APR-10 08:25
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.47	+/-2.46	2.45	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.52	2.71	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262816
Sample ID: 251078010
Matrix: Soil
Collect Date: 06-APR-10 08:50
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.50	3.49	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-2.07	3.14	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262817
Sample ID: 251078011
Matrix: Soil
Collect Date: 06-APR-10 10:15
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.24	3.38	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta		3.51	+/-2.33	3.50	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262818
Sample ID: 251078012
Matrix: Soil
Collect Date: 06-APR-10 09:50
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		5.60	+/-2.96	3.17	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta		6.45	+/-2.57	3.17	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262819
Sample ID: 251078013
Matrix: Soil
Collect Date: 06-APR-10 14:05
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		7.52	+/-3.51	3.36	4.00	pCi/g	DXF3	04/26/10	2132	976093	1
Beta		6.14	+/-2.86	3.88	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

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Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262820
Sample ID: 251078014
Matrix: Soil
Collect Date: 06-APR-10 14:15
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.95	3.36	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-2.18	3.98	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262823
Sample ID: 251078015
Matrix: Soil
Collect Date: 06-APR-10 10:15
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.32	3.26	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-2.21	3.92	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262824
Sample ID: 251078016
Matrix: Soil
Collect Date: 06-APR-10 11:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.10	+/-2.34	2.94	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.61	2.86	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262825
Sample ID: 251078017
Matrix: Soil
Collect Date: 06-APR-10 11:45
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.04	3.33	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-2.08	3.77	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262826
Sample ID: 251078018
Matrix: Soil
Collect Date: 06-APR-10 12:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.96	2.84	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.57	2.89	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262827
Sample ID: 251078019
Matrix: Soil
Collect Date: 06-APR-10 16:15
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-1.76	3.19	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.44	3.33	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
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Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262828
Sample ID: 251078020
Matrix: Soil
Collect Date: 06-APR-10 16:30
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.87	+/-2.46	2.98	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.73	3.00	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1263080
Sample ID: 251078021
Matrix: Soil
Collect Date: 09-APR-10 09:23
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.83	+/-2.72	2.85	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta	U	ND	+/-1.71	2.76	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Certificate of Analysis

Company : Florida Department of
Environmental Protection
Address : 2600 Blair Stone Road
Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1263081
Sample ID: 251078022
Matrix: Soil
Collect Date: 06-APR-10 09:30
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		5.35	+/-2.92	3.01	4.00	pCi/g	DXF3	04/26/10	2134	976093	1
Beta		3.29	+/-2.11	3.04	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262946
Sample ID: 251078023
Matrix: Soil
Collect Date: 05-APR-10 16:55
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.83	+/-2.64	2.87	4.00	pCi/g	DXF3	04/26/10	2135	976093	1
Beta	U	ND	+/-1.77	2.81	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262947
Sample ID: 251078024
Matrix: Soil
Collect Date: 05-APR-10 16:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.40	3.21	4.00	pCi/g	DXF3	04/26/10	2132	976093	1
Beta	U	ND	+/-2.63	4.56	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0822	974929

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262948
Sample ID: 251078025
Matrix: Soil
Collect Date: 06-APR-10 08:10
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.78	+/-2.85	3.02	4.00	pCi/g	DXF3	04/23/10	2043	976094	1
Beta	U	ND	+/-2.90	4.73	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262949
Sample ID: 251078026
Matrix: Soil
Collect Date: 06-APR-10 10:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.76	+/-2.69	3.14	4.00	pCi/g	DXF3	04/23/10	2043	976094	1
Beta		5.59	+/-3.05	4.53	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262950
Sample ID: 251078027
Matrix: Soil
Collect Date: 06-APR-10 13:50
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha	U	ND	+/-2.21	3.04	4.00	pCi/g	DXF3	04/23/10	2033	976094	1
Beta	U	ND	+/-2.68	4.67	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Tallahassee, Florida 32399

Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262951
Sample ID: 251078028
Matrix: Soil
Collect Date: 06-APR-10 09:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		10.4	+/-3.94	3.02	4.00	pCi/g	DXF3	04/23/10	2033	976094	1
Beta	U	ND	+/-2.88	4.77	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262952
Sample ID: 251078029
Matrix: Soil
Collect Date: 06-APR-10 10:30
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		5.91	+/-2.97	2.27	4.00	pCi/g	DXF3	04/23/10	2033	976094	1
Beta		32.3	+/-5.24	5.23	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262953
Sample ID: 251078030
Matrix: Soil
Collect Date: 06-APR-10 11:30
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		4.96	+/-2.86	2.99	4.00	pCi/g	DXF3	04/23/10	2033	976094	1
Beta	U	ND	+/-2.57	4.77	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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Report Date: April 27, 2010

Contact: Ms. Kate Brackett
Project: **2010 Soils Project**

Client Sample ID: 1262954
Sample ID: 251078031
Matrix: Soil
Collect Date: 06-APR-10 16:00
Receive Date: 14-APR-10
Collector: Client

Project: FLAD00110
Client ID: FLAD001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting											
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>											
Alpha		3.26	+/-2.35	2.63	4.00	pCi/g	DXF3	04/23/10	2033	976094	1
Beta	U	ND	+/-2.89	4.64	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	04/15/10	0829	974930

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 900.0/SW846 9310/SM 7110B Modified	

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QC Summary

Report Date: April 27, 2010

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Florida Department of Environmental Protection

2600 Blair Stone Road

Tallahassee, Florida

Contact: Ms. Kate Brackett

Workorder: 251078

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	975105										
QC1202095397	251048001	DUP									
Alpha	U	-0.115	U	2.06	pCi/L	0.00		N/A	DXB5	04/20/10	13:43
	Uncertainty	+/-1.52		+/-2.26							
Beta		3.48	U	2.83	pCi/L	20.5		(0% - 100%)			
	Uncertainty	+/-2.29		+/-2.37							
QC1202095400	LCS										
Alpha	63.0			72.5	pCi/L		115	(75%-125%)		04/20/10	13:43
	Uncertainty			+/-6.88							
Beta	222			226	pCi/L		102	(75%-125%)			
	Uncertainty			+/-8.46							
QC1202095396	MB										
Alpha			U	0.527	pCi/L					04/20/10	13:43
	Uncertainty			+/-0.710							
Beta			U	-0.0885	pCi/L						
	Uncertainty			+/-0.695							
QC1202095398	251048001	MS									
Alpha	252	U	-0.115	249	pCi/L		98.9	(75%-125%)		04/20/10	13:43
	Uncertainty		+/-1.52	+/-27.8							
Beta	886		3.48	921	pCi/L		104	(75%-125%)			
	Uncertainty		+/-2.29	+/-34.8							
QC1202095399	251048001	MSD									
Alpha	252	U	-0.115	245	pCi/L	1.88	97	(0%-20%)		04/20/10	13:43
	Uncertainty		+/-1.52	+/-27.4							
Beta	886		3.48	891	pCi/L	3.31	100	(0%-20%)			
	Uncertainty		+/-2.29	+/-34.6							
Batch	976093										
QC1202097911	251078005	DUP									
Alpha		4.34		3.73	pCi/g	15.1		(0% - 100%)	DXF3	04/26/10	21:32
	Uncertainty	+/-2.47		+/-2.46							
Beta	U	0.556	U	-0.187	pCi/g	0.00		N/A			
	Uncertainty	+/-1.70		+/-1.77							
QC1202097914	LCS										
Alpha	105			131	pCi/g		124	(75%-125%)		04/26/10	21:33
	Uncertainty			+/-11.8							
Beta	369			386	pCi/g		105	(75%-125%)			
	Uncertainty			+/-14.2							
QC1202097910	MB										
Alpha			U	1.11	pCi/g					04/26/10	07:57
	Uncertainty			+/-1.58							
Beta			U	-1.37	pCi/g						
	Uncertainty			+/-1.57							
QC1202097912	251078005	MS									
Alpha	126	4.34		141	pCi/g		108	(75%-125%)		04/26/10	21:33

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QC Summary

Workorder: 251078

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	976093										
		Uncertainty									
				+/-2.47		+/-13.7					
Beta	443	U	0.556	465	pCi/g		105	(75%-125%)	DXF3	04/26/10	21:33
		Uncertainty		+/-1.70		+/-17.1					
QC1202097913	251078005	MSD									
Alpha	117		4.34	147	pCi/g	4.31	122	(0%-20%)		04/26/10	21:33
		Uncertainty		+/-2.47		+/-13.7					
Beta	410	U	0.556	418	pCi/g	10.7	102	(0%-20%)			
		Uncertainty		+/-1.70		+/-15.7					
Batch	976094										
QC1202097916	251078025	DUP									
Alpha			4.78	U	2.20	pCi/g	73.8	(0% - 100%)	DXF3	04/23/10	20:33
		Uncertainty		+/-2.85		+/-2.20					
Beta		U	3.12	U	3.82	pCi/g	0.00		N/A		
		Uncertainty		+/-2.90		+/-3.11					
QC1202097919	LCS										
Alpha	118			129	pCi/g		110	(75%-125%)		04/23/10	20:32
		Uncertainty		+/-12.3							
Beta	414			422	pCi/g		102	(75%-125%)			
		Uncertainty		+/-15.5							
QC1202097915	MB										
Alpha				U	-1.39	pCi/g				04/23/10	20:33
		Uncertainty		+/-0.778							
Beta				U	1.37	pCi/g					
		Uncertainty		+/-2.94							
QC1202097917	251078025	MS									
Alpha	121		4.78	109	pCi/g		86.1	(75%-125%)		04/23/10	20:32
		Uncertainty		+/-2.85		+/-11.7					
Beta	426	U	3.12	398	pCi/g		93.5	(75%-125%)			
		Uncertainty		+/-2.90		+/-15.4					
QC1202097918	251078025	MSD									
Alpha	122		4.78	122	pCi/g	11.0	95.6	(0%-20%)		04/23/10	20:32
		Uncertainty		+/-2.85		+/-12.7					
Beta	430	U	3.12	434	pCi/g	8.72	101	(0%-20%)			
		Uncertainty		+/-2.90		+/-16.4					

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low

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QC Summary

Workorder: 251078

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
F	Estimated Value										
H	Analytical holding time was exceeded										
J	Value is estimated										
M	M if above MDC and less than LLD										
M	Matrix Related Failure										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

20100462464
251078

SAMPLE ID	FIELD ID	DATE SAMPLED	MATRIX	ANALYSIS	
1262531	SOIL EQUIPMENT BLK	4/5/2010 17:45	W-EQPMT-BK	OV-ALPHA/BETA	
1262532	SOIL EQUIPMENT BLK	4/5/2010 18:30	W-EQPMT-BK	OV-ALPHA/BETA	
1262537	SOIL EQUIPMENT BLK	4/5/2010 17:45	W-EQPMT-BK	OV-RADIUM	
1262538	SOIL EQUIPMENT BLK	4/5/2010 18:30	W-EQPMT-BK	OV-RADIUM	
1262811	36-A DEEP	4/5/2010 17:05	S-SOIL	OV-ALPHA/BETA	
1262812	36-B	4/5/2010 16:40	S-SOIL	OV-ALPHA/BETA	
1262813	25-A DEEP	4/5/2010 16:10	S-SOIL	OV-ALPHA/BETA	
1262814	25-B	4/5/2010 16:20	S-SOIL	OV-ALPHA/BETA	
1262815	32-A DEEP	4/6/2010 8:25	S-SOIL	OV-ALPHA/BETA	
1262816	32-B	4/6/2010 8:50	S-SOIL	OV-ALPHA/BETA	
1262817	38-A DEEP	4/6/2010 10:15	S-SOIL	OV-ALPHA/BETA	
1262818	38-B	4/6/2010 9:50	S-SOIL	OV-ALPHA/BETA	
1262819	37-A DEEP	4/6/2010 14:05	S-SOIL	OV-ALPHA/BETA	
1262820	37-B	4/6/2010 14:15	S-SOIL	OV-ALPHA/BETA	
1262823	35-A DEEP	4/6/2010 10:15	S-SOIL	OV-ALPHA/BETA	
1262824	35-B	4/6/2010 11:00	S-SOIL	OV-ALPHA/BETA	
1262825	22-A DEEP	4/6/2010 11:45	S-SOIL	OV-ALPHA/BETA	
1262826	22-B	4/6/2010 12:00	S-SOIL	OV-ALPHA/BETA	
1262827	34-A DEEP	4/6/2010 16:15	S-SOIL	OV-ALPHA/BETA	
1262828	34-B	4/6/2010 16:30	S-SOIL	OV-ALPHA/BETA	
1263080	33-A DEEP	4/9/2010 9:23	S-SOIL	OV-ALPHA/BETA	
1263081	33-B	4/6/2010 9:30	S-SOIL	OV-ALPHA/BETA	
1262946	36-A	4/5/2010 16:55	S-SOIL	OV-ALPHA/BETA	
1262947	25-A	4/5/2010 16:00	S-SOIL	OV-ALPHA/BETA	
1262948	32-A	4/6/2010 8:10	S-SOIL	OV-ALPHA/BETA	
1262949	38-A	4/6/2010 10:00	S-SOIL	OV-ALPHA/BETA	
1262950	37-A	4/6/2010 13:50	S-SOIL	OV-ALPHA/BETA	
1262951	33-A	4/6/2010 9:00	S-SOIL	OV-ALPHA/BETA	
1262952	35-A	4/6/2010 10:30	S-SOIL	OV-ALPHA/BETA	
1262953	22-A	4/6/2010 11:30	S-SOIL	OV-ALPHA/BETA	
1262954	34-A	4/6/2010 16:00	S-SOIL	OV-ALPHA/BETA	

Please hold
samples for
radium
analyses

Received by: Phil Lohm 4/14/10 20245

SAMPLE RECEIPT & REVIEW FORM

Client: <u>FLAD</u>		SDG/ARCOC/Work Order: <u>251078</u>	
Received By: <u>Ricky Albee</u>		Date Received: <u>4/14/10</u>	
Suspected Hazard Information	Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.
COC/Samples marked as radioactive?		☒	Maximum Counts Observed*: <u>40 cpm</u>
Classified Radioactive II or III by RSO?		☒	
COC/Samples marked containing PCBs?		☒	
Shipped as a DOT Hazardous?		☒	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		☒	

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?		☒		Preservation Method: ice bags blue ice dry ice <u>none</u> other (describe) <u>19"</u>
3	Chain of custody documents included with shipment?	☒			
4	Sample containers intact and sealed?	☒			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	☒			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		☒		Sample ID's and containers affected:
7	Are Encore containers present?			☒	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	☒			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	☒			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			☒	Sample ID's affected: <u>1262947- container has time 1655, coc has time 1600</u>
11	Number of containers received match number indicated on COC?	☒			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	☒			

Comments: FedEx 7985 6086 0715
7985 6088 0760

There are no "Data Exception Reports" associated with this analytical report.