

a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

November 14, 2014

Mr. Gregory Hisel St. Francis Hospital 62 Kibbe Rd Ellington, Connecticut 06029

Re: Total Activity Wipes Work Order: 359237

Dear Mr. Hisel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 17, 2014. 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. 4443.

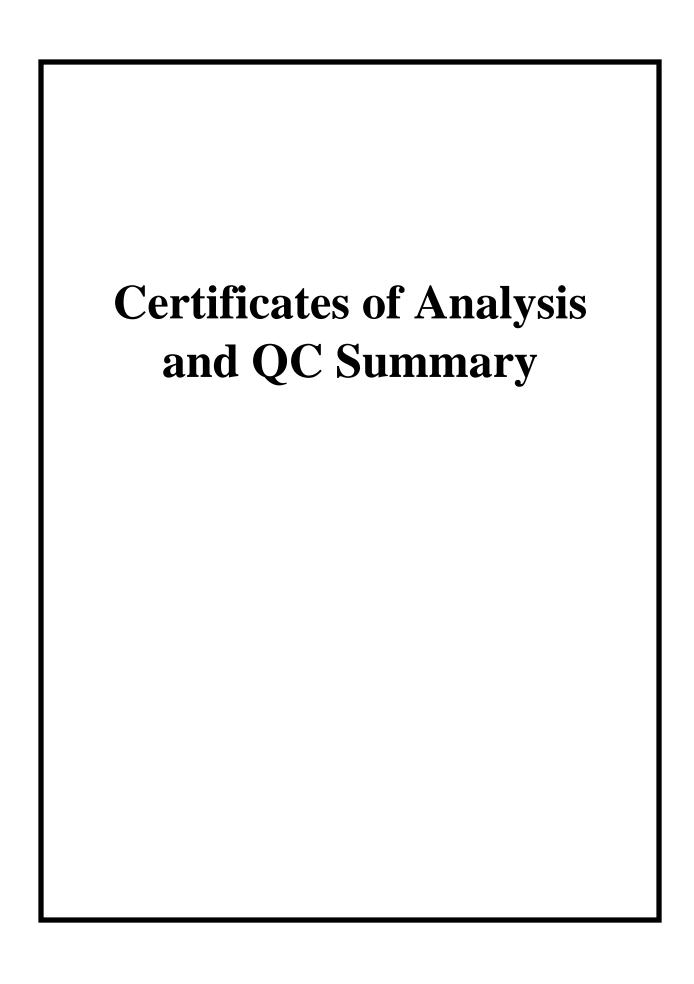
Sincerely,

Erin Trent for Lindsay Fabra Project Manager

Purchase Order: 0100320614

Enclosures





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

Certificate of Analysis Report for

STFR001 St. Francis Hospital Client SDG: 359237 GEL Work Order: 359237

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** 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 limit as defined in the 'U' qualifier above.

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, Lindsay Fabra.

	Vie &	Trent		
Reviewed by				

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

Certificate of Analysis

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-1

Sample ID:

359237001

Matrix:

Filter

Client

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14

Parameter	Qualifier

Liquid Scint. Total activity "As Received"

Total Activity

-0.105

+/-1.43

Result Uncertainty

2.50

MDC

5.00

RL

Units

Project:

Client ID:

Analyst Comments

DF Analyst Date

STFR00100

STFR001

Time Batch Method

Rad Liquid Scintillation Analysis

pCi/Filter

GXR1 10/28/14 1723 1430972

1

The following Analytical Methods were performed:

Method Description

GL-RAD-A-041 1

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-1-2

Total Activity Wipes

Sample ID:

359237002

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result U	Incertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillati	on Analysis							
Liquid Scint. Total ac	tivity "As Rece	eived"						
Total Activity	U	0.167	+/-1.44	2.51	5.00	pCi/Filter	GXR1 10/28/14	1739 1430972 1
The following Analy	tical Methods v	were perforn	ned:					

Method Description **Analyst Comments** GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Sample ID:

Client Sample ID: S-1-3

359237003

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method		
Rad Liquid Scintillation Analysis										
Liquid Scint. Total activity "As Received"										
Total Activity	U	-0.801	+/-1.40	2.50	5.00	pCi/Filter	GXR1 10/28/14	1755 1430972 1		
The following Anal	The following Analytical Methods were performed:									
Method	Description	1				Ana	lyst Comments			

Method Description GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

GXR1 10/28/14 1811 1430972

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-4

Sample ID:

Collector:

359237004

Matrix:

Filter

Client

Collect Date:

12-OCT-14 14:00

0.166

+/-1.44

Receive Date:

17-OCT-14

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Da	te Time Batch Method
D 171 110 1 111 1							

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity U

The following Analytical Methods were performed: **Analyst Comments**

5.00

pCi/Filter

2.51

Method Description GL-RAD-A-041 1

Notes:

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

Certificate of Analysis

Project:

Client ID:

Analyst Comments

STFR00100

STFR001

Report Date: November 14, 2014

Company : Address :

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-5

C 1 5

Sample ID:

359237005

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch	Method	
Rad Liquid Scintillation	on Analysis									
Liquid Scint. Total activity "As Received"										
Total Activity	U	-0.166	+/-1.43	2.51	5.00	pCi/Filter	GXR1 10/28/14	1827 1430972	1	
The following Analytical Methods were performed:										

Method Description

1 GL-RAD-A-041

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-6

Sample ID:

359237006

Matrix:

Filter

Client

U

Collect Date:

12-OCT-14 14:00

Receive Date:

Collector:

17-OCT-14

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
D 17: 110: 111:							

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity

1.03

+/-1.48

2.50

5.00

pCi/Filter

Project:

Client ID:

GXR1 10/28/14 1843 1430972

STFR00100

STFR001

The following Analytical Methods were performed:

Method Description **Analyst Comments**

GL-RAD-A-041 1

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-1-7

Total Activity Wipes

Sample ID:

Matrix:

359237007

Filter

Collect Date:

12-OCT-14 14:00 17-OCT-14

Receive Date: Collector:

Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation	on Analysis						

Liquid Scint. Total activity "As Received"

Total Activity

0.522

+/-1.46

2.50

5.00

pCi/Filter

Project:

Client ID:

GXR1 10/28/14 1859 1430972

STFR00100

STFR001

The following Analytical Methods were performed:

Method Description **Analyst Comments** GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-8

Sample ID:

359237008

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result U	Incertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method		
Rad Liquid Scintillation	Rad Liquid Scintillation Analysis									
Liquid Scint. Total ac	tivity "As Rece	eived"								
Total Activity	U	-0.572	+/-1.41	2.51	5.00	pCi/Filter	GXR1 10/28/14 1	1915 1430972 1		
The following Analyst	The following Analytical Methods were performed:									
Method	Description			Analyst Comments						

Method Description GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-9

Sample ID:

359237009

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method			
Rad Liquid Scintillation Analysis											
Liquid Scint. Total acti	vity "As Rece	eived"									
Total Activity	U	-0.512	+/-1.41	2.51	5.00	pCi/Filter	GXR1 10/28/14	1932 1430972 1			
The following Analytical Methods were performed:											

Method Description **Analyst Comments**

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

Analyst Comments

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-10

Sample ID:

359237010

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method			
Rad Liquid Scintillation Analysis											
Liquid Scint. Total activity "As Received"											
Total Activity	U	-0.0031	+/-1.44	2.51	5.00	pCi/Filter	GXR1 10/28/14	1948 1430972 1			
The following Analytic	al Methods v	vere perfo	ormed:								

Method Description

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-11

Sample ID: Matrix:

359237011 Filter

Collect Date:

Receive Date:

12-OCT-14 14:00 17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Met	hod	
Rad Liquid Scintillation Analysis										
Liquid Scint. Total a	ctivity "As Rece	eived"								
Total Activity	U	0.288	+/-1.45	2.51	5.00	pCi/Filter	GXR1 10/28/14	2004 1430972	1	
The following Anal	ytical Methods v	were perfor	rmed:							
Method	Description	1				Δns	alvst Comments			

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company : Address :

St. Francis Hospital 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-12 Sample ID: 359237

S-1-12 359237012

Matrix:

Filter

Collect Date: Receive Date: 12-OCT-14 14:00 17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillati	on Analysis							
Liquid Scint. Total ac	tivity "As Rece	eived"						
Total Activity	U	-0.227	+/-1.43	2.51	5.00	pCi/Filter	GXR1 10/28/14	2020 1430972 1
The following Angles	tical Mathada	uara narfai	rmad.					

The following Analytical Methods were performed:

Method Description Analyst Comments

GL-RAD-A-041

Notes:

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

Project:

Client ID:

STFR00100

STFR001

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-13

0 1 12

Sample ID:

359237013

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Γime Batch Method		
Rad Liquid Scintilla	ation Analysis									
Liquid Scint. Total	iquid Scint. Total activity "As Received"									
Total Activity	U	0.125	+/-1.44	2.51	5.00	pCi/Filter	GXR1 10/28/14 20	036 1430972 1		
The following Ana	The following Analytical Methods were performed:									
Method	Description	l	Analyst Comments							

1 GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-1-14

Total Activity Wipes

Sample ID:

359237014

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch	Method
Rad Liquid Scintill	ation Analysis								
Liquid Scint. Total	activity "As Rece	eived"							
Total Activity	U	0.325	+/-1.45	2.51	5.00	pCi/Filter	GXR1 10/28/14	2052 1430972	1
The following Ana	alytical Methods v	were perfor	med:						
Method	Description	1		Analyst Comments					
1	GL-RAD-A-0	041							

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Sample ID:

Client Sample ID: S-1-15

359237015

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillatio	n Analysis							
Liquid Scint. Total act	ivity "As Rece	eived"						
Total Activity	U	-1.04	+/-1.39	2.51	5.00	pCi/Filter	GXR1 10/28/14	2108 1430972 1
The following Analyti	cal Mathada	voro porfo	rmad:					

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL PAD A 0/11	•

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-16

Sample ID:

359237016

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintilla	tion Analysis							
Liquid Scint. Total a	activity "As Rece	eived"						
Total Activity	U	-0.832	+/-1.40	2.51	5.00	pCi/Filter	GXR1 10/28/14	2125 1430972 1
The following Anal	ytical Methods v	were perfor	med:					
Method	Description	1				An	alvst Comments	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GL-RAD-A-041

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

Project:

Client ID:

STFR00100

STFR001

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-1-17

0.1.17

Sample ID:

359237017

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Metho	od
Rad Liquid Scintill	ation Analysis								
Liquid Scint. Total	activity "As Rece	eived"							
Total Activity	U	-0.284	+/-1.42	2.51	5.00	pCi/Filter	GXR1 10/28/14	2141 1430972 1	
The following Ana	alytical Methods v	were perfo	rmed:						
Method	Description	l		Analyst Comments					
1	GL-RAD-A-0	141							

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 6

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-1-18

Total Activity Wipes

Sample ID:

359237018

Matrix:

Filter

Collect Date:

12-OCT-14 14:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch	Method
Rad Liquid Scintill	lation Analysis								
Liquid Scint. Total	activity "As Rece	eived"							
Total Activity	U	-0.34	+/-1.42	2.51	5.00	pCi/Filter	GXR1 10/28/14	2157 1430972	1
The following Ana	alytical Methods v	were perfo	rmed:						
Method	Description	l	Analyst Comments						
1	GL-RAD-A-0	41					-		

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: St. Francis Hospital Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel Project: Total Activity Wipes

Client Sample ID: S-1-19 Sample ID: 359237019 Matrix: Filter

Collect Date: 12-OCT-14 14:00
Receive Date: 17-OCT-14
Collector: Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation	on Analysis						

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity U -0.772 +/-1.40 2.50 5.00 pCi/Filter GXR1 10/28/14 2213 1430972 1

The following Analytical Methods were performed:

	5 · 3 · · · · · · · · · · · · · · · · ·	
Method	Description	Analyst Comments
1	GL-RAD-A-041	•

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Client Sample ID: S-2-1 Sample ID:

359237020

Matrix:

Filter

Client

Collect Date:

12-OCT-14 14:30

Receive Date:

Collector:

17-OCT-14

Parameter	Qualifie

Total Activity

-0.646

+/-1.41

2.50

MDC

5.00

RL

Units

Project:

Client ID:

Analyst Comments

DF Analyst Date

STFR00100

STFR001

Time Batch Method

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Result Uncertainty

pCi/Filter

GXR1 10/28/14 2229 1430972

1

The following Analytical Methods were performed:

Method Description GL-RAD-A-041

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

+/-1.42

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-2

Sample ID:

359237021

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method

2.50

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity -0.256 U

The following Analytical Methods were performed:

performed:			
seriormea:			

pCi/Filter

5.00

Project:

Client ID:

Analyst Comments

STFR00100

GXR1 10/29/14 0102 1430973

STFR001

Method Description

GL-RAD-A-041 1

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-3

Sample ID:

359237022

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch 1	Method
Rad Liquid Scintilla	ation Analysis								
Liquid Scint. Total	activity "As Rece	eived"							
Total Activity	II	-0.30	+/-1 42	2.50	5.00	nCi/Filter	GXR1 10/29/14	0118 1430973	1

Project:

Client ID:

STFR00100

STFR001

The following Analytical Methods were performed:

Method Description **Analyst Comments** GL-RAD-A-041

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-4

Sample ID:

359237023

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation							

Liquid Scint. Total activity "As Received"

Total Activity

0.643

+/-1.46

2.49

5.00

pCi/Filter

Project:

Client ID:

GXR1 10/29/14 0134 1430973

STFR00100

STFR001

The following Analytical Methods were performed:

Method Description **Analyst Comments** GL-RAD-A-041 1

Notes:

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

Certificate of Analysis

Project:

Client ID:

Analyst Comments

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-2-5

Total Activity Wipes

Sample ID:

S-2-3

Matrix:

359237024 Filter

Collect Date:

riitei

Receive Date:

12-OCT-14 14:30 17-OCT-14

Collector:

Client

Parameter	Qualifier	Result 1	Uncertainty	MDC	RL	Units	DF Analyst Date Time Batch Method
Rad Liquid Scintillation	Analysis						
Liquid Scint. Total activ	vity "As Rece	eived"					
Total Activity	U	0.111	+/-1.44	2.50	5.00	pCi/Filter	GXR1 10/29/14 0150 1430973 1
The following Analytic	al Methods v	vere perfori	med:				

Method Description

1 GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-6

Sample ID:

359237025

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Me	ethod
Rad Liquid Scintil	lation Analysis								
Liquid Scint. Total	l activity "As Rece	eived"							
Total Activity	U	-0.44	+/-1.41	2.50	5.00	pCi/Filter	GXR1 10/29/14	0206 1430973	1
The following An	alytical Methods	were perfo	rmed:						
Method	Description	1				Ana	alvst Comments		

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GL-RAD-A-041

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-7

Sample ID:

359237026

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation	on Analysis							
Liquid Scint. Total act	ivity "As Rece	eived"						
Total Activity	U	-0.567	+/-1.41	2.50	5.00	pCi/Filter	GXR1 10/29/14	0223 1430973 1
The following Analyt	ical Mathode v	vara narfo	rmad.					

Method Description **Analyst Comments**

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: St. Francis Hospital Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel Project: Total Activity Wipes

Client Sample ID: S-2-8 Sample ID: 359237027 Matrix: Filter

Collect Date: 12-OCT-14 14:30 Receive Date: 17-OCT-14 Collector: Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scinti	llation Analysis						
Liquid Scint Tota	al activity "As Reco	eived"					

Liquid Scint. Total activity "As Received"

Total Activity U 1.18 +/-1.48 2.50 5.00 pCi/Filter GXR1 10/29/14 0239 1430973 1

The following Analytical Methods were performed:

	,,	
Method	Description	Analyst Comments
1	GL-RAD-A-041	•

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-9

\$ 2.0

Sample ID:

Collector:

359237028

Matrix:

Filter

Client

U

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Tutumeter Qualifier Result Chestrality 1415C RE Chits B1 Finallyst Bute Time Buten 1416th Center	Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
--	-----------	-----------	--------------------	-----	----	-------	-----------------	-------------------

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity

-0.874

+/-1.39

2.50

5.00

pCi/Filter

Project:

Client ID:

GXR1 10/29/14 0255 1430973

STFR00100

STFR001

1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	GL-RAD-A-041	·

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital 62 Kibbe Rd

Address: 62

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-10

\$ 2.10

Sample ID:

359237029

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result U	Jncertainty	MDC	RL	Units	DF Analyst Date	Time Batch	Method
Rad Liquid Scintil	llation Analysis								
Liquid Scint. Tota	l activity "As Rece	eived"							
Total Activity	U	-0.497	+/-1.41	2.50	5.00	pCi/Filter	GXR1 10/29/14	0311 1430973	1
The following An	alytical Methods	were perforr	med:						
Method	Description	1				Ana	alvst Comments		

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GL-RAD-A-041

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: St. Francis Hospital Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel Project: Total Activity Wipes

Client Sample ID: S-2-11
Sample ID: 359237030
Matrix: Filter

Collect Date: 12-OCT-14 14:30 Receive Date: 17-OCT-14 Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst	Date	Time Batch	Method
Rad Liquid Scintillation	n Analysis									
Liquid Scint. Total activ	vity "As Rece	ived"								
Total Activity	U	0.107	+/-1.44	2.50	5.00	pCi/Filter	GXR1 1	0/29/14	0327 1430973	1

The following Analytical Methods were performed:

Method Description Analyst Comments

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: St. Francis Hospital Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel Project: Total Activity Wipes

Client Sample ID: S-2-12 Sample ID: 359237031 Matrix: Filter

Collect Date: 12-OCT-14 14:30 Receive Date: 17-OCT-14 Collector: Client

Parameter	Qualifier	Result Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity U -1.33 +/-1.37 2.50 5.00 pCi/Filter GXR1 10/29/14 0343 1430973 1

The following Analytical Methods were performed:

	,,	
Method	Description	Analyst Comments
1	GL-RAD-A-041	•

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-13

Sample ID:

359237032

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation Analysis								
Liquid Scint. Total activity "As Received"								
Total Activity	U	-0.639	+/-1.40	2.49	5.00	pCi/Filter	GXR1 10/29/14	0359 1430973 1
The following Analytical Methods were performed:								
Method	Description			Analyst Comments				

Method Description

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-14

Sample ID:

359237033

Matrix:

Filter

Client

U

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Project:

Client ID:

STFR00100

STFR001

DF Analyst Date

Analyst Comments

Rad Liquid Scintillation Analysis

Liquid Scint. Total activity "As Received"

Total Activity

Parameter

-0.0678

+/-1.43

Result Uncertainty

2.50

MDC

5.00

RL

pCi/Filter

Units

GXR1 10/29/14 0416 1430973

1

Time Batch Method

The following Analytical Methods were performed:

Qualifier

Method Description 1

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-2-15

2 2 17

Sample ID:

359237034

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14 14:30

Collector:

Client

Parameter	Qualifier	Result U	Uncertainty	MDC	RL	Units	DF Analyst Date Time Batch Method
Rad Liquid Scintil	lation Analysis						
Liquid Scint. Total	l activity "As Reco	eived"					
Total Activity	U	-0.499	+/-1.41	2.50	5.00	pCi/Filter	GXR1 10/29/14 0432 1430973 1
The following An	alytical Methods	were perforr	med:				
Method	Description	1				Ana	alyst Comments

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GL-RAD-A-041

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Sample ID:

Client Sample ID: S-2-16

359237035

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch N	Method
Rad Liquid Scintil	llation Analysis								
Liquid Scint. Tota	l activity "As Rece	eived"							
Total Activity	U	0.0667	+/-1.44	2.50	5.00	pCi/Filter	GXR1 10/29/14	0448 1430973	1
The following An	alytical Methods v	vere perfor	med·						

Method **Analyst Comments** Description GL-RAD-A-041

Notes:

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

Certificate of Analysis

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Result Uncertainty

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Sample ID:

Client Sample ID: S-2-17

359237036

Matrix:

Filter

Client

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14

Parameter	Qualifier
Rad Liquid Scinti	llation Analysis

Liquid Scint. Total activity "As Received"

Total Activity

-0.395

U

+/-1.41

2.50

MDC

5.00

RL

Units

Project:

Client ID:

DF Analyst Date Time Batch Method

STFR00100

STFR001

The following Analytical Methods were performed:

GL-RAD-A-041

pCi/Filter

GXR1 10/29/14 0504 1430973

1

Method Description **Analyst Comments**

Notes:

1

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-2-18

Total Activity Wipes

Sample ID:

359237037

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillat	ion Analysis							
Liquid Scint. Total a	ctivity "As Rece	eived"						
Total Activity	U	-1.45	+/-1.37	2.50	5.00	pCi/Filter	GXR1 10/29/14	0520 1430973 1
The following Analy	ytical Methods v	were perfo	rmed:					
Method	Description					Ana	lyst Comments	

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

GL-RAD-A-041

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

Certificate of Analysis

Project:

Client ID:

Analyst Comments

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address:

62 Kibbe Rd

Ellington, Connecticut 06029

Contact:

Mr. Gregory Hisel

Project:

Total Activity Wipes

Sample ID:

Client Sample ID: S-2-19

359237038

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date: Collector:

17-OCT-14 Client

Parameter	Qualifier	Result U	Uncertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintillation	n Analysis							
Liquid Scint. Total activ	vity "As Rece	eived"						
Total Activity	U	0.188	+/-1.44	2.50	5.00	pCi/Filter	GXR1 10/29/14	0536 1430973 1
The following Analytic	cal Methods v	vere perfori	med:					

Method Description GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company: Address:

St. Francis Hospital

62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel

Client Sample ID: S-2-20

Total Activity Wipes

Sample ID:

359237039

Matrix:

Filter

Collect Date:

12-OCT-14 14:30

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result U	Incertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintilla	ntion Analysis							
Liquid Scint. Total	activity "As Rece	eived"						
Total Activity	U	-0.59	+/-1.41	2.50	5.00	pCi/Filter	GXR1 10/29/14	0552 1430973 1
The following Anal	lytical Methods v	were perforn	ned:					
Method	Description	l				Ana	lyst Comments	

Method Description

GL-RAD-A-041

Notes:

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

Certificate of Analysis

Project:

Client ID:

STFR00100

STFR001

Report Date: November 14, 2014

Company:

St. Francis Hospital

Address: 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Project:

Mr. Gregory Hisel Total Activity Wipes

Client Sample ID: S-3-1

Sample ID:

359237040

Matrix:

Filter

Collect Date:

12-OCT-14 15:00

Receive Date:

17-OCT-14

Collector:

Client

Parameter	Qualifier	Result U	Incertainty	MDC	RL	Units	DF Analyst Date	Time Batch Method
Rad Liquid Scintilla	tion Analysis							
Liquid Scint. Total	activity "As Rece	eived"						
Total Activity	U	-0.176	+/-1.42	2.49	5.00	pCi/Filter	GXR1 10/29/14	0608 1430973 1
The following Anal	lytical Methods v	vere perforn	ned:					
Method	Description					Ana	lyst Comments	
1	GL-RAD-A-0	41						

Notes:

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

QC Summary

Report Date: November 14, 2014

Page 1 of 2

St. Francis Hospital 62 Kibbe Rd Ellington, Connecticut

Mr. Gregory Hisel

Workorder: 359237

Contact:

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillati Batch 1430												
QC1203196631	LCS											
Total Activity		86.9			82.8	pCi/Filter		95.3	(75%-125%)	GXR1	10/28/	14 23:01
		Uncertainty			+/-3.50							
QC1203196632	LCSD											
Total Activity		86.9			86.9	pCi/Filter	4.91	100	(0%-20%)		10/28/	14 23:18
		Uncertainty			+/-3.57							
QC1203196630	MB											
Total Activity				U	0.600	pCi/Filter					10/28/	14 22:45
		Uncertainty			+/-1.46							
Batch 1430)973											
QC1203196634	LCS											
Total Activity		86.9			82.7	pCi/Filter		95.2	(75%-125%)	GXR1	10/29/	14 06:41
		Uncertainty			+/-3.50							
QC1203196635	LCSD											
Total Activity		86.9			84.2	pCi/Filter	1.84	96.9	(0%-20%)		10/29/1	14 06:57
		Uncertainty			+/-3.52							
QC1203196633	MB											
Total Activity				U	-1.2	pCi/Filter					10/29/1	14 06:25
		Uncertainty			+/-1.38							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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

QC Summary

359237 Page 2 of 2 Sample Qual Parmname **NOM** OC Units RPD% REC% Range Anlst Date Time

- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected

Workorder:

- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- Gamma Spectroscopy--Uncertain identification UI
- UJ Gamma Spectroscopy--Uncertain identification
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.
- ٨ 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

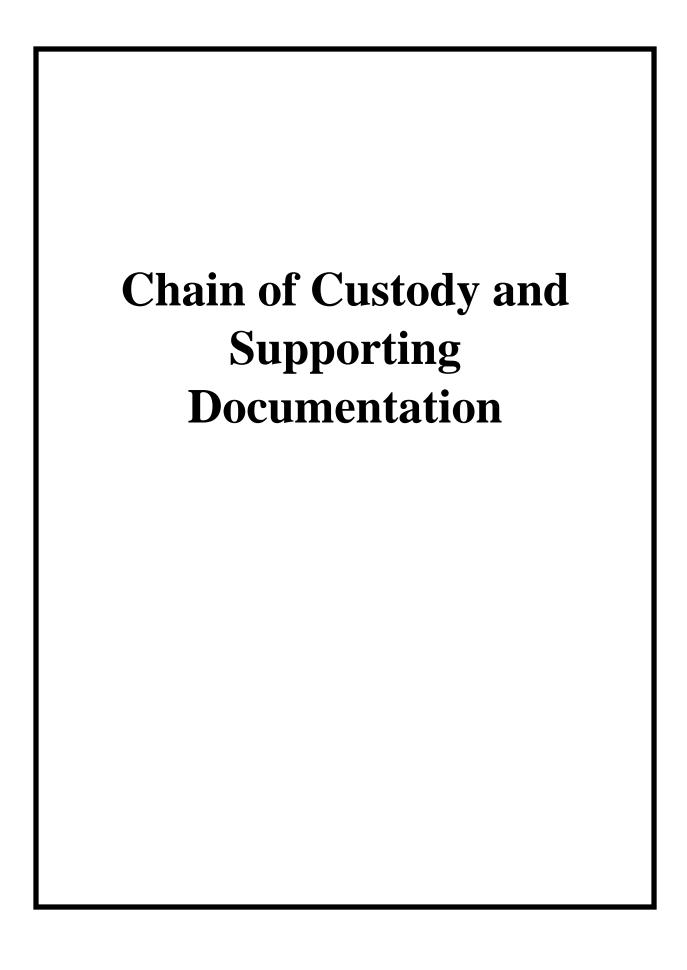
N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

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.

[^] 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.



GEL Work Order Number: 38 Josp, Lea Phone #:5188 Send Results To: L. HISe 'Date Collected (Military) (hhmm) (inne (mm-dd-yy) (hhmm) (hhmm) (inne (10-12-14 400 N Specify: (Subject to Surcharge) Fax Results: pplicable to these samples? If so, please liss ain of Custody Signatures Received by (signed) Date	#:518-755-7465 #:518-755-7465 #:860-856-6333 Sample be considered:	Phone: (843) 556-8171 Fax: (843) 766-1178 in the number of containers for each test) Comments Note: extra sample is required for sample specific QC Specific QC
St. Francisc Hospital Phone #:518 G. Hisel Sample ID Composites indicate start and stop date/time Sample ID Composites indicate start and stop date/time Time Sample ID (min-dd-yy) $ -2 $ $ -2 $ $ -5 $ $ -5 $ $ -5 $ $ -5 $ $ -6 $ $ -5 $ $ -6 $ $ -6 $ $ -6 $ $ -6 $ $ -6 $ $ -6 $ $ -6 $ $ -7 $ $ $	Should this sample be night sidentive Considered TSCA Regulated TSCA Regulated	Comments Comments Note: extra sample is required for sample specific QC
Hart fered LT efer Fax#: 860-8 Sample ID Sample ID (mm-dd-yy) (williary) (williary)	Radioactive Consider of containers TSCA Regulated cd be be containers Total number of containers	Comments Note: extra sample is required for sample specific QC
Sample ID Send Results To: G. Hise Sample ID (mm-dd-yy) (hhmm) -1 -2 -2 -3 -5 -6 -7 -6 -7 -7 -8 -8 -9 10-12-14 400 M -9 -9 -9 -9 -9 -9 -9 -9 -9 -	CC Code Pietd Matrix (4) Radioactive TSCA Regulated Total number of conta	Comments Note: extra sample is required for sample specific QC
6. Hisel Sample ID Sample ID Omposites - indicate start and stop date/time	CC Code Field Matrix # Radioactive TSCA Regulated Total number of	Note: extra sample is required for sample specific QC
Sample ID * For composites - indicate start and stop date/time 10 - 2	OC Code Field Sample Piltered Marrix Will Radioactive Radioactive TSCA Regul	required for sample specific QC
S-1-1	2 / V 9	
S - 1 - 2 S - 1 - 4 S - 1 - 5 S - 1 - 6 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 TAT Requested: Normal: Value S - 1 - 7 TAT Requested: Normal: Value S - 1 - 7 Tate there any known hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to these samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the hazards applicable to the samples? If so, please list the line samples? If so, please lis		
S − 1 − 3 S − 1 − 4 S − 1 − 5 S − 1 − 6 S − 1 − 6 S − 1 − 7 S − 1 − 7 S − 1 − 7 S − 1 − 7 S − 1 − 7 S − 1 − 7 S − 1 − 7 S − 1 − 7 TAT Requested: Normal:		
S - 1 - 4 S - 1 - 5 S - 1 - 6 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 S - 1 - 7 TATRequested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes. Remarks: Are there any known hazards applicable to these samples? If so, please list the haza Chain of Custody Signatures Chain of Custody Signatures Relinquished By (Signed) Date Time Received by (signed) Date Time		
S - - S S - - C		
S - - 6 S - - 7 S - - 7 S - - 7 TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes Remarks: Are there any known hazards applicable to these samples? If so, please list the haze Chain of Custody Signatures Relinquished By (Signed) Date Time Time		
S - -7 S - -8 TAT Requested: Normal: Rush: Specify: (Subject to Surchage) Fax Results: Yes Remarks: Are there any known hazards applicable to these samples? If so, please list the haza Chain of Custody Signatures Relinquished By (Signed) Date Time Time		
S - - S S - - O TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes Remarks: Are there any known hazards applicable to these samples? If so, please list the haza Chain of Custody Signatures Relinquished By (Signed) Date Time Time		
S - - 7 S - - 7 TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes Remarks: Are there any known hazards applicable to these samples? If so, please list the haze Chain of Custody Signatures Relinquished By (Signed) Date Time Time Time		
TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes Remarks: Are there any known hazards applicable to these samples? If so, please list the haze Chain of Custody Signatures Relinquished By (Signed) Date Time Time Time		
TAT Requested: Normal: Rush: Specify: (Subject to Surcharge) Fax Results: Yes. Remarks: Are there any known hazards applicable to these samples? If so, please list the haze. Chain of Custody Signatures Relinquished By (Signed) Date Time Time Time	→ → → → → → → → → → → → → → → → → → →	
Remarks: Are there any known hazards applicable to these samples? If so, please list the haze Chain of Custody Signatures Relinquished By (Signed) Date Time Received by (signed) Date Time		/ Level 1 / Kevel 2 / Level 4
Chain of Custody Signatures Date Time Received by (signed) Date	so, please list the hazards	Sample Collection Time Zone Eastern Pacific Central Other
Date Time Received by (signed) Date	Sample Shipping and Delivery Details	Delivery Details
-	Date	
1 22 2 WYHY 1 Fedex	Method of Shipment: Date Shipped:	hipped:
2 Sevel Sdwardy 10.16,14	J.	
3	Airbill #:	
1.) Chain of Custody Number = Client Determined	Marrix Solke Sample, MSD = Marrix Spike Duplicate Sample, G = Grab, C = Composite	For Lab Receiving Use Only
2.) VC Codes. In Frontian Sample, 12. To year the sample was field filtered or N - for sample was not field filtered. 3.) Field Filtered: For liquid matrices, indicate with a - Y - for year the sample was field filtered or N - for sample was not field filtered.	sample was not field filtered.	Custody Seal Intact?

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

YELLOW = FILE

WHITE = LABORATORY

YELLOW = FILE

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

Cooler Temp:

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

Page				
ge: 2 of 6 of 6 oject #: EL Quote #: 6-EL P/4-0945	GEL Chain of Custody and GEL Work Order Number:	Custody and Analytical Request	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178	
Client Name: St. Francis Hosvita	754C-15C-815:# bhone #:51	Sample Analysis Requested ⁽⁵⁾ ((Fill in the number of containers for each test)	ners for each test)
Hartford	Fax #:860-856-6333			< Preservative Type (6)
Address:	0.00	considered:		Commonte
Collected by: L. H; fe Send Results To:	iults To: 6. Hisel	T		Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected Tollected OC Code Field Sample (Military) (P) Filtered (J) Matrix (4) (hhmm)	Sadioactive		required for sample specific QC
17.75	N N P	L		
5-1-12				
0-1-0				
4)-1-5				
21-1-8				
91-1-5				
2)-1-5				
81-1-5				
61-1-3	>			
1-2-1	V 1430 V V	¬ >		
TAT Requested: Normal: Rush: Specify:	(Subject to Surcharge) Fax Results: (Yes) /	No Circle Deliverable: C of A / QC	QC Summary / Level 1 / Lev	/ Level 2 / Level 3 / Level 4
ıy known hazards c	to these samples? If so, please list the hazards		Sample Colli Eastern Central Mountain	Sample Collection Time Zone Eastern Pacific Central Other
Chain of Cus	Chain of Custody Signatures	Sample Shi	Sample Shipping and Delivery Details	S
Relinquished By (Signed) Date Time	Received by (signed) Date Time	GEL PM:		
41/41/01 -A TO	1 redax	Method of Shipment:	Date Shipped:	
2	2 Santewords 10.16.14 0840	O Airbill #:		
3	3	Airbill #:		
1.) Chain of Custody Number = Client Determined 1.) Chain of Custody Number = Client Determined 1. Chain of Custody Number = Client Determined	FR = Engineers Blank MS = Marrix Snike Sample. MSD = Marrix Spike D	Dunjicate Sample, G = Grab, C = Composite	Н.	For Lab Receiving Use Only
2.) Q. Codes, N = Nothing analyse, 19 1114 parameters are sample was field filtered or - N - for sample was not field filtered. 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered.	e was field filtered or - N - for sample was not field filtered.			ty Seal Ir
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waster, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Soild Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fccal, N=Nasal	ater, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS	S=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal,	N=Nasal	YES NO

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

YELLOW = FILE

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YELLOW = FILE

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

ES Cooler Temp:

Eage: 3 of 16 Project #: GEL P 4-0945 PO Number: GEL WG	GEL Chain of Custody a	nd An	Custody and Analytical Request		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171	
Client Name: St. Francis Haspita	72 1 Phone #518-755-7567		Sample Analysis Re	quested (5) (Fill in the n	Sample Analysis Requested (5) (Fill in the number of containers for each test)	ı test)
furd	Fax #: 866 -856	-			< Prese	< Preservative Type (6)
Address:		sample be considered;				
Collected by: (L. H; Sel Results To:	sults To: 6. H; Se/	balt	T		Co Note: e	Comments Note: extra sample is
${ m Sample\ ID}$ * For composites - indicate start and stop date/time	*Date Collected Collected QC Code Field Sample (mm-dd-yy) (thmm)	S. 5 c Sadioactive	mun lato1		require	required for sample specific QC
5-2-2	16-12-14 1430 N N P	[-			
5-2-3						
5-2-4						
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5-2-7		Constitution of the Consti				
8-2-5						
5-2-9						
8-2-10	6	Wilsonson (Signature)				
5-2-11		<i>></i>	<i>></i>			
TAT Requested: Normal: 🖊 Rush: Specify:	(Subject to Surcharge) Fax Results:	/ No	Circle Deliverable: C of A	Cof A / QC Summary /	/ Level 1 / Level 2 / Level 3	13 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards	to these samples? If so, please list the hazards				ollect	
· · · · · · · · · · · · · · · · · · ·					Central Other	
Chain of Custo	Chain of Custody Signatures			Sample Shipping and Delivery Details	Delivery Details	
Relinquished By (Signed) Date Time	Received by (signed) Date Time	GE	GEL PM:			
1 m m 10/14/14	1 Fedex	Met	Method of Shipment:	Date Shipped:	ipped:	
2	twards 10.16.14	0840 Airl	Airbill#:			
3	, ,	Air	Airbill#:			
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	3B = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix	Spike Duplicate	Sample, G = Grab, C = Composite		For Lab Receiving Use Only	ing Use Only
3.) Field Filtered: For liquid martices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. An Archiv Codes March March Charles Charles When the WW-Wass Wash Wass Charles Charles Charles Charles Deline Delin	was field filtered or - N - for sample was not field filtered.	don Seneral W	name On Oil Californ Dawline 11	manuscriptor Dr. Cond. NNiconi	Custody Seal Intact?	al Intact?
4.) Matrix Codes: DW=Drinking Water, UW=Oroundwater, SW=Suitace water	iter, WW Waste Water, W Water, OU SOIL, OU Scullineil, OL Sil	idge, 33-3011c n	aste, U=UII, r=riner, r=wipc, c	"=Utine, F=Fecal, N=inasai	(7)	25

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

Cooler Temp:

Page			
ge: of of 6	GEL Chain of Custody and	Custody and Analytical Request	GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178
Client Name: St. Fraye: Hasp.	1) 14 Phone #:	Sample Analysis Requested	Sample Analysis Requested (5) (Fill in the number of containers for each test)
Project/Site Name:	Fax #:	<u></u>	< Preservative Type (6)
Address:		sample be tal	
Collected by: Send Results To:	lts To:	7	Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected Time OC Code Field Sample (Military) (2) Filtered (3) Matrix (4)	Radioactive TSCA Regula Total num	required for sanıple specific QC
5-2-12	10/12/14 1430 N N P		
5-2-13			
41-2-5 41-2-5			
5-2-15			
91-2-5			
2-2-1			
81-2-5			
5-2-19			
5-2-20	→ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
5-3-1	1500 Y V	>	
TAT Requested: Normal: // Rush: Specify:	(Subject to Surcharge) Fax Results:	No Circle Deliverable: C of A /	QC Summary / Level 1 / Level 2 / Level 3 / Level 4
ıy known hazards o	o these samples? If so, please list the hazards		Sample Collec Eastern
			Central Other
Chain of Custody Signatures	ody Signatures	Sample	Sample Shipping and Delivery Details
Relinquished By (Signed) Date Time	Received by (signed) Date Time	GEL PM:	
1 Sugar 1914/7	1 Todax	Method of Shipment:	Date Shipped:
2	2 Bost dumb 10,16.14 Joseph	Airbill #:	
9	3	Airbill#:	
1.) Chain of Custody Number = Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite	B = Equipment Blank. MS = Matrix Spike Sample, MSD = Matrix Spi	ke Duplicate Sample, $G = Grab$, $C = Composite$	For Lab Receiving Use Only
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5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B. 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

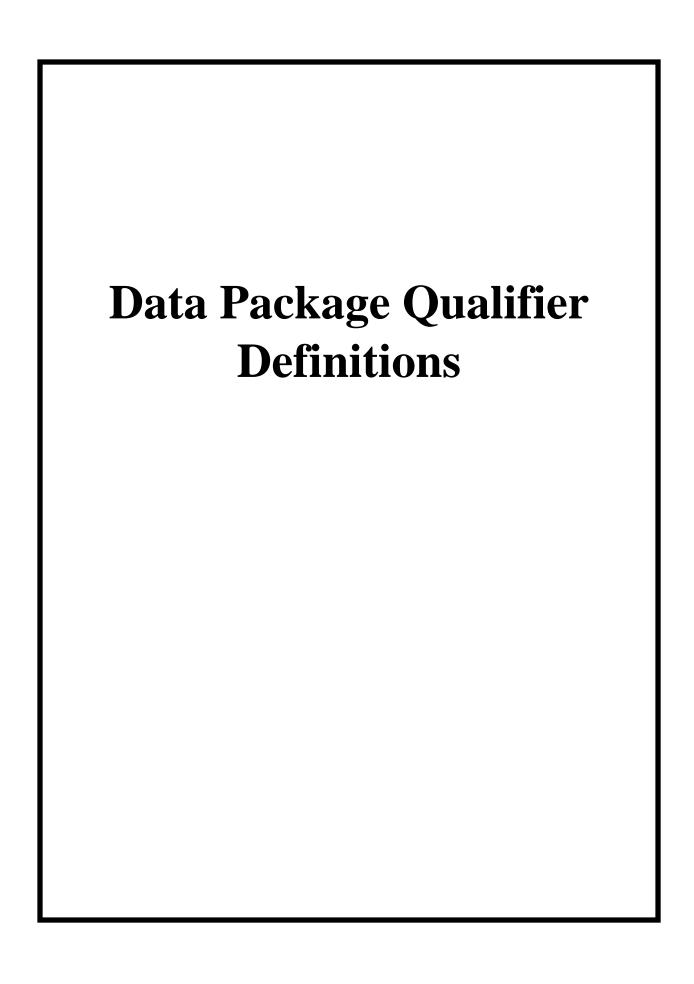
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, W=Water, SO=Soif, SD=Sediment. SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe. U=Urine, F=Fecal, N=Nasal

Cooler Temp:

Custody Seal Intact? YES NO

SAMPLE RECEIPT & REVIEW FORM

Client: St. Francis SDG.					G/AR/COC/Work Order: 359237		
Col				1	Date Received: 10.16,14		
Suspected Hazard Information		Yes	% No	*If i	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
COC/Samples marked as radioactive?				Max	cimum Net Counts Observed* (Observed Counts - Area Background Counts):		
Classified Radioactive II or III by RSO?		ļ		It y	es, Were swipes taken of sample contatiners < action levels?		
COC/Samples marked containing PCBs? Package, COC, and/or Samples marked as		 					
beryllium or asbestos containing?				If yo	es, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.		
Shipped as a DOT Hazardous?				Haz	ard Class Shipped: UN#:		
Samples identified as Foreign Soil?		<u> </u>					
	Sample Receipt Criteria	Yes	NA	å	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 One Other (describe) *all temperatures are recorded in Celsius		
2a	Daily check performed and passed on IR temperature gun?				Temperature Device Serial #: \ 3040200 \ Secondary Temperature Device Serial # (If Applicable):		
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:		
11	Number of containers received match number indicated on COC?				None on Sample 5 Sample ID's affected:		
12	Are sample containers identifiable as GEL provided?			/			
13	COC form is properly signed in relinquished/received sections?						
	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 9622 0019 0 (000 448 3673 4) 00 77-14 8934 6330		
Comments (Use Continuation Form if needed):							
<u> </u>							



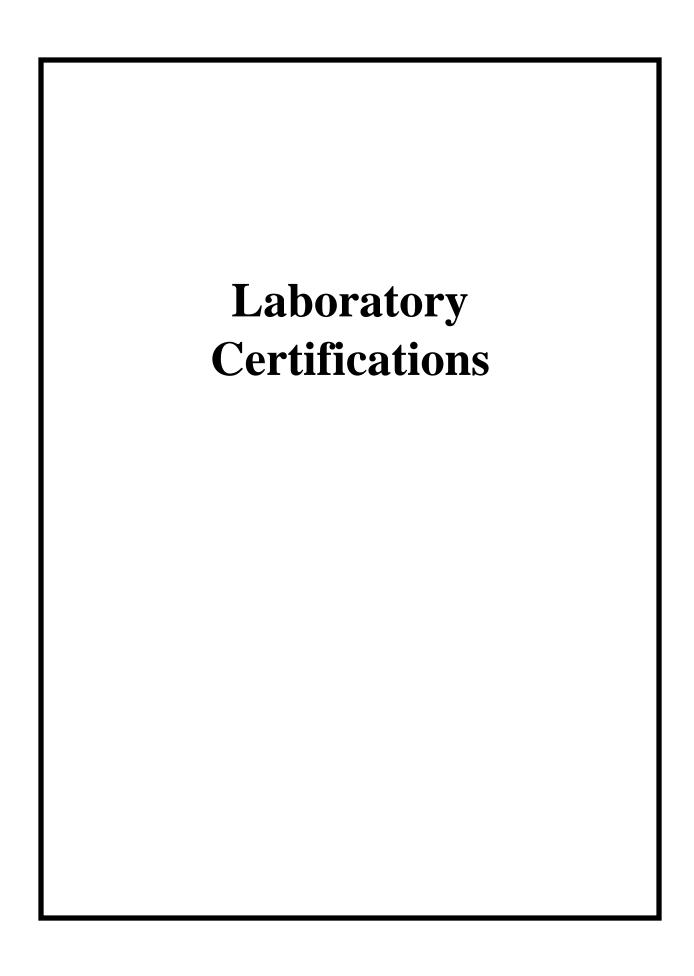
Data Review Qualifier Definitions

Qualifier Explanation

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- Result is less than value reported
- > Result is greater than value reported
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- B Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- d $\,$ 5-day BOD-The 2:1 depletion requirement was not met for this sample
- E Organics-Concentration of the target analyte exceeds the instrument calibration range
- E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- h Preparation or preservation holding time was exceeded
- J Value is estimated
- N Metals-The Matrix spike sample recovery is not within specified control limits
- N Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- ${
 m N/A}$ Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
- ND Analyte concentration is not detected above the reporting limit
- UI 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
- Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

- P Organics-The concentrations between the primary and confirmation columns/detectors is >40% difference.

 For HPLC, the difference is >70%.
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.



List of current GEL Certifications as of 14 November 2014

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790