



November 14, 2014

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

Re: Total Activity Wipes
Work Order: 359241

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



Certificates of Analysis and QC Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

STFR001 St. Francis Hospital

Client SDG: 359241 GEL Work Order: 359241

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.

Reviewed by



GEL LABORATORIES LLC

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-5-2 | Project: | STFR00100 |
| Sample ID: | 359241001 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.201 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0704 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-3 | Project: | STFR00100 |
| Sample ID: | 359241002 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.927 | +/-2.05 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0720 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-4 | Project: | STFR00100 |
| Sample ID: | 359241003 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.328 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0737 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-5 | Project: | STFR00100 |
| Sample ID: | 359241004 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | 1.55 | +/-2.13 | 3.59 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0753 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-6 | Project: | STFR00100 |
| Sample ID: | 359241005 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -1.51 | +/-2.03 | 3.59 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0809 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-7 | Project: | STFR00100 |
| Sample ID: | 359241006 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -1.51 | +/-2.03 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0826 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-8 | Project: | STFR00100 |
| Sample ID: | 359241007 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.169 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0842 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-9 | Project: | STFR00100 |
| Sample ID: | 359241008 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.745 | +/-2.06 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0859 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-10 | Project: | STFR00100 |
| Sample ID: | 359241009 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | 0.575 | +/-2.09 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0915 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-11 | Project: | STFR00100 |
| Sample ID: | 359241010 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.65 | +/-2.06 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0931 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

GEL LABORATORIES LLC

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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-5-12 | Project: | STFR00100 |
| Sample ID: | 359241011 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.337 | +/-2.07 | 3.59 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 0948 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-13 | Project: | STFR00100 |
| Sample ID: | 359241012 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -1.16 | +/-2.04 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1004 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-14 | Project: | STFR00100 |
| Sample ID: | 359241013 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.843 | +/-2.05 | 3.59 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1021 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-15 | Project: | STFR00100 |
| Sample ID: | 359241014 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.295 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1037 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-16 | Project: | STFR00100 |
| Sample ID: | 359241015 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.225 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1054 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-17 | Project: | STFR00100 |
| Sample ID: | 359241016 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.641 | +/-2.06 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1110 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-18 | Project: | STFR00100 |
| Sample ID: | 359241017 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.94 | +/-2.05 | 3.59 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1126 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-19 | Project: | STFR00100 |
| Sample ID: | 359241018 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | -0.196 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1143 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Company : St. Francis Hospital
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Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-5-20 | Project: | STFR00100 |
| Sample ID: | 359241019 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:00 | | |
| 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 | 2.52 | +/-2.18 | 3.64 | 5.00 | pCi/Filter | | GXR1 | 10/30/14 | 1344 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-1 | Project: | STFR00100 |
| Sample ID: | 359241020 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | -0.393 | +/-2.07 | 3.58 | 5.00 | pCi/Filter | | GXR1 | 10/29/14 | 1216 | 1430979 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-2 | Project: | STFR00100 |
| Sample ID: | 359241021 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.23 | +/-2.00 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 1938 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-3 | Project: | STFR00100 |
| Sample ID: | 359241022 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.30 | +/-2.01 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 1955 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-4 | Project: | STFR00100 |
| Sample ID: | 359241023 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.88 | +/-2.03 | 3.41 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2011 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-5 | Project: | STFR00100 |
| Sample ID: | 359241024 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 2.23 | +/-2.04 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2027 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-6 | Project: | STFR00100 |
| Sample ID: | 359241025 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 0.595 | +/-1.99 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2044 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-7 | Project: | STFR00100 |
| Sample ID: | 359241026 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 2.40 | +/-2.04 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2100 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-8 | Project: | STFR00100 |
| Sample ID: | 359241027 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.26 | +/-2.01 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2117 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-9 | Project: | STFR00100 |
| Sample ID: | 359241028 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 0.765 | +/-1.99 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2133 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-10 | Project: | STFR00100 |
| Sample ID: | 359241029 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.82 | +/-2.02 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2149 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-11 | Project: | STFR00100 |
| Sample ID: | 359241030 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 2.44 | +/-2.04 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2206 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-12 | Project: | STFR00100 |
| Sample ID: | 359241031 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.12 | +/-2.00 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2222 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-13 | Project: | STFR00100 |
| Sample ID: | 359241032 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.35 | +/-2.00 | 3.38 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2238 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-14 | Project: | STFR00100 |
| Sample ID: | 359241033 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.66 | +/-2.01 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2255 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-15 | Project: | STFR00100 |
| Sample ID: | 359241034 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 0.172 | +/-1.97 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2311 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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Report Date: November 14, 2014

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Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-16 | Project: | STFR00100 |
| Sample ID: | 359241035 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 0.872 | +/-1.99 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2327 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | S-6-17 | Project: | STFR00100 |
| Sample ID: | 359241036 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 16:30 | | |
| 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 | 1.07 | +/-2.00 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/03/14 | 2344 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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Company : St. Francis Hospital
Address : 62 Kibbe Rd

Ellington, Connecticut 06029

Contact: Mr. Gregory Hisel
Project: Total Activity Wipes

| | | | |
|-------------------|-----------------|------------|-----------|
| Client Sample ID: | B-1-1 | Project: | STFR00100 |
| Sample ID: | 359241037 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 17:00 | | |
| 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 | 2.16 | +/-2.03 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/04/14 | 0000 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

GEL LABORATORIES LLC

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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: | B-1-2 | Project: | STFR00100 |
| Sample ID: | 359241038 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 17:00 | | |
| 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 | 1.81 | +/-2.02 | 3.39 | 5.00 | pCi/Filter | | GXR1 | 11/04/14 | 0017 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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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: | B-1-3 | Project: | STFR00100 |
| Sample ID: | 359241039 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 17:00 | | |
| 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 | 2.11 | +/-2.03 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/04/14 | 0033 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

GEL LABORATORIES LLC

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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: | B-1-4 | Project: | STFR00100 |
| Sample ID: | 359241040 | Client ID: | STFR001 |
| Matrix: | Filter | | |
| Collect Date: | 12-OCT-14 17:00 | | |
| 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 | 1.51 | +/-2.01 | 3.40 | 5.00 | pCi/Filter | | GXR1 | 11/04/14 | 0049 | 1430980 | 1 |

The following Analytical Methods were performed:

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

Notes:

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

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QC Summary

Report Date: November 14, 2014

Page 1 of 2

St. Francis Hospital
62 Kibbe Rd
Ellington, Connecticut

Contact: Mr. Gregory Hisel

Workorder: 359241

| Parmname | NOM | Sample | Qual | QC | Units | RPD% | REC% | Range | Anlst | Date | Time |
|--------------------------|-------------|--------|------|---------|------------|------|------|------------|-------|----------|-------|
| Rad Liquid Scintillation | | | | | | | | | | | |
| Batch | 1430979 | | | | | | | | | | |
| QC1203196652 | LCS | | | | | | | | | | |
| Total Activity | 86.9 | | | 82.5 | pCi/Filter | | 95 | (75%-125%) | GXR1 | 10/29/14 | 12:48 |
| | Uncertainty | | | +/-3.80 | | | | | | | |
| QC1203196653 | LCSD | | | | | | | | | | |
| Total Activity | 86.9 | | | 85.7 | pCi/Filter | 3.79 | 98.6 | (0%-20%) | | 10/29/14 | 13:05 |
| | Uncertainty | | | +/-3.85 | | | | | | | |
| QC1203196651 | MB | | | | | | | | | | |
| Total Activity | | | U | -0.447 | pCi/Filter | | | | | 10/29/14 | 12:32 |
| | Uncertainty | | | +/-2.06 | | | | | | | |
| Batch | 1430980 | | | | | | | | | | |
| QC1203196659 | LCS | | | | | | | | | | |
| Total Activity | 86.9 | | | 84.4 | pCi/Filter | | 97.1 | (75%-125%) | GXR1 | 11/04/14 | 01:22 |
| | Uncertainty | | | +/-3.75 | | | | | | | |
| QC1203196660 | LCSD | | | | | | | | | | |
| Total Activity | 86.9 | | | 86.2 | pCi/Filter | 2.13 | 99.2 | (0%-20%) | | 11/04/14 | 01:38 |
| | Uncertainty | | | +/-3.77 | | | | | | | |
| QC1203196658 | MB | | | | | | | | | | |
| Total Activity | | | U | 0.907 | pCi/Filter | | | | | 11/04/14 | 01:06 |
| | Uncertainty | | | +/-1.99 | | | | | | | |

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

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QC Summary

Workorder: 359241

Page 2 of 2

| Parmname | NOM | Sample | Qual | QC | 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 | | | | | | | | | | |
| U | Analyte was analyzed for, but not detected above the MDL, MDA, or LOD. | | | | | | | | | | |
| UI | Gamma Spectroscopy--Uncertain identification | | | | | | | | | | |
| 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. | | | | | | | | | | |
| ^ | 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.

^ 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.

Chain of Custody and Supporting Documentation

| GEL Chain of Custody and Analytical Request | | | | | | | | | | GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178 | | | |
|--|----------|------|---|---|---|--|--|--|--|---|----------------|---------------------------|---|
| GEL Work Order Number: 359241 | | | | | | | | | | | | | |
| Client Name: St. Francis Hospital | | | | | | | | | | Phone #: | | | |
| Project/Site Name: | | | | | | | | | | Fax #: | | | |
| Address: | | | | | | | | | | | | | |
| Collected by: | | | | | | | | | | Send Results To: | | | |
| Sample ID | | | | | | | | | | Sample Analysis Requested ⁽⁶⁾ (Fill in the number of containers for each test) | | | |
| * For composites - indicate start and stop date/time | | | | | | | | | | | | | |
| *Date Collected (mm-dd-yy) | | | | | | | | | | Should this sample be considered: | | | |
| *Time Collected (Military) (hhmm) | | | | | | | | | | Radiation | | | |
| QC Code (n) | | | | | | | | | | TSCA Regulated | | | |
| Field Filtered (b) | | | | | | | | | | Sample Matrix (a) | | | |
| S-5-2 | 10-12-14 | 1600 | N | N | P | | | | | Total number of containers | Total Activity | <-- Preservative Type (6) | Comments Note: extra sample is required for sample specific QC |
| S-5-3 | | | | | | | | | | | | | |
| S-5-4 | | | | | | | | | | | | | |
| S-5-5 | | | | | | | | | | | | | |
| S-5-6 | | | | | | | | | | | | | |
| S-5-7 | | | | | | | | | | | | | |
| S-5-8 | | | | | | | | | | | | | |
| S-5-9 | | | | | | | | | | | | | |
| S-5-10 | | | | | | | | | | | | | |
| S-5-11 | | | | | | | | | | | | | |

| TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: | | Specify: | | Fax Results: | | No | | Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4 | |
|--|--|----------|--|--------------|--|----|--|---|--|
| | | | | | | | | Sample Collection Time Zone Eastern Pacific Other Mountain | |

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

| Chain of Custody Signatures | | | | Sample Shipping and Delivery Details | | | |
|-----------------------------|----------|----------------------|---------------|--------------------------------------|---------------------|---------------|--|
| Relinquished By (Signed) | Date | Received by (signed) | Date | GEL PM: | Method of Shipment: | Date Shipped: | |
| 1. [Signature] | 10/17/14 | 1. [Signature] | | | | | |
| 2. [Signature] | | 2. [Signature] | 10.16.14/0840 | | | | |
| 3. [Signature] | | 3. [Signature] | | | | | |

| For Lab Receiving Use Only | |
|----------------------------|-----|
| Custody Seal Intact? | YES |
| Cooler Temp: | C |

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
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
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).
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

WHITE = LABORATORY VET LOW = FIELD PINK = CLIENT

| | | | | | | | | |
|--|--|---|--|---|-------------|---|-------------------|---|
| GEL Chain of Custody and Analytical Request | | | | GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178 | | | | |
| Page: <u>10</u> of <u>16</u> Project #: <u>GEL 814-0945</u> GEL Quote #: <u>GEL 814-0945</u> COC Number (1): <u> </u> PO Number: <u> </u> | | | | GEL Work Order Number: <u> </u> | | | | |
| Client Name: <u>St. Francis Hospital</u> Phone #: <u> </u> Project/Site Name: <u> </u> Fax #: <u> </u> Address: <u> </u> | | | | Sample Analysis Requested (5) (Fill in the number of containers for each test) | | | | |
| Collected by: <u> </u> Send Results To: <u> </u> | | | | Should this sample be considered: | | Total number of containers | | <-- Preservative Type (6) |
| | | | | Radioactive | | TSCA Regulated | | |
| Sample ID * For composites - indicate start and stop date/time | | | | *Time Collected (Military) (hhmm) | QC Code (6) | Field Filtered (6) | Sample Matrix (6) | Comments Note: extra sample is required for sample specific QC |
| S-5-12 | | | | 1600 | N | N | P | |
| S-5-13 | | | | | | | | |
| S-5-14 | | | | | | | | |
| S-5-15 | | | | | | | | |
| S-5-16 | | | | | | | | |
| S-5-17 | | | | | | | | |
| S-5-18 | | | | | | | | |
| S-5-19 | | | | | | | | |
| S-5-20 | | | | | | | | |
| S-6-1 | | | | 1630 | | | | |
| TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <u> </u> Specify: <u> </u> (Subject to Surcharge) Fax Results: <input checked="" type="checkbox"/> Yes / No | | | | Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4 | | | | |
| Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards | | | | Sample Collection Time Zone Eastern Pacific Other Mountain | | | | |
| Chain of Custody Signatures | | | | Sample Shipping and Delivery Details | | | | |
| Relinquished By (Signed) <u> </u> Date <u>10/14/17</u> | | Received by (signed) <u>Fedex</u> Date <u> </u> Time <u> </u> | | GEL PM: <u> </u> | | Date Shipped: <u> </u> | | |
| 1. <u> </u> | | 1. <u>Fedex</u> | | Method of Shipment: <u> </u> | | Date Shipped: <u> </u> | | |
| 2. <u> </u> | | 2. <u> </u> | | Airbill #: <u> </u> | | Date Shipped: <u> </u> | | |
| 3. <u> </u> | | 3. <u> </u> | | Airbill #: <u> </u> | | Date Shipped: <u> </u> | | |
| 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 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal 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). 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 | | | | | | | | |
| WHITE = LABORATORY VET LOW = FILL E PINK = CLIENT | | | | For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp: C | | | | |

| GEL Chain of Custody and Analytical Request | | | | | | | | | | GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178 | |
|---|----------|------|---|---|---|--|--|--|--|---|--|
| GEL Work Order Number: | | | | | | | | | | | |
| Client Name: <u>St. Francis Hospital</u> Phone #: _____ | | | | | | | | | | Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test) | |
| Project/Site Name: _____ | | | | | | | | | | | |
| Address: _____ | | | | | | | | | | | |
| Collected by: _____ | | | | | | | | | | | |
| Send Results To: _____ | | | | | | | | | | | |
| Sample ID | | | | | | | | | | | |
| * For composites - indicate start and stop date/time | | | | | | | | | | | |
| * Date Collected (mm-dd-yy) | | | | | | | | | | * Time Collected (hh:mm) | |
| QC Code ^(b) | | | | | | | | | | Field Filtered ^(a) | |
| Sample Matrix ^(a) | | | | | | | | | | Sample Matrix ^(a) | |
| TSCA Regulated | | | | | | | | | | Should this sample be considered: | |
| Total number of containers | | | | | | | | | | Preservative Type (6) | |
| Comments | | | | | | | | | | Note: extra sample is required for sample specific QC | |
| S-6-2 | 10-12-14 | 1630 | N | N | P | | | | | | |
| S-6-3 | | 1630 | | | | | | | | | |
| S-6-4 | | | | | | | | | | | |
| S-6-5 | | | | | | | | | | | |
| S-6-6 | | | | | | | | | | | |
| S-6-7 | | | | | | | | | | | |
| S-6-8 | | | | | | | | | | | |
| S-6-9 | | | | | | | | | | | |
| S-6-10 | | | | | | | | | | | |
| S-6-11 | | | | | | | | | | | |

| TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: _____ | | Specify: _____ | | (Subject to Surcharge) | | Fax Results: <input checked="" type="checkbox"/> No | | Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4 | |
|--|--|----------------|--|------------------------|--|---|--|---|--|
| | | | | | | | | Sample Collection Time Zone Eastern Pacific Other _____ Central Mountain | |

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

| Chain of Custody Signatures | | | | Sample Shipping and Delivery Details | | | |
|-----------------------------|--|----------|--|--------------------------------------|--|---------------|--|
| Relinquished By (Signed) | | Date | | Received by (signed) | | Date | |
| 1. <u>Brynn</u> | | 10/14/17 | | 1. <u>Fedex</u> | | | |
| 2. _____ | | | | 2. <u>David Edwards</u> | | 10.16.17/8840 | |
| 3. _____ | | | | 3. _____ | | | |

| GEL PM: | | Date Shipped: | |
|---------------------|--|---------------|--|
| | | | |
| Method of Shipment: | | Airbill #: | |
| | | | |
| Airbill #: | | Airbill #: | |
| | | | |

| For Lab Receiving Use Only | |
|----------------------------|----|
| Custody Seal Intact? | |
| YES | NO |
| Cooler Temp: | |
| C | |

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
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or a N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
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).
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

WHITE = LABORATORY VELLOW = FIELD PINK = CLIENT

| <h2 style="margin: 0;">GEL Chain of Custody and Analytical Request</h2> | | GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|--|----------------------------|--|------------------------------|-------------------------------|------------------------------|----------|----------|------|---|---|---|--------|--|--|--|--|--|--------|--|--|--|--|--|--------|--|--|--|--|--|--------|--|--|--|--|--|--------|--|--|--|--|--|-------|--|------|--|--|--|-------|--|--|--|--|--|-------|--|--|--|--|--|-------|--|--|--|--|--|---|--|
| Page: <u>12</u> of <u>16</u> Project #: _____ GEL Quote #: <u>6E1 P14-0945</u> COC Number ⁽¹⁾ : _____ PO Number: _____ | | GEL Work Order Number: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Client Name: <u>St. Francis Hospital</u> Phone #: _____ Project/Site Name: _____ Fax #: _____ Address: _____ Collected by: _____ | | Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Should this sample be considered:</th> <th style="width: 10%;">TSCA Regulated</th> <th style="width: 10%;">Total number of containers</th> <th style="width: 10%;">Preservative Type (6)</th> <th style="width: 10%;">Comments</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Note: extra sample is required for sample specific QC</td> </tr> </table> | | Should this sample be considered: | TSCA Regulated | Total number of containers | Preservative Type (6) | Comments | | | | | Note: extra sample is required for sample specific QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Should this sample be considered: | TSCA Regulated | Total number of containers | Preservative Type (6) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Send Results To: _____ <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample ID</th> <th style="width: 10%;">*Date Collected (mm-dd-yy)</th> <th style="width: 10%;">*Time Collected (Military) (hhmm)</th> <th style="width: 10%;">QC Code ⁽²⁾</th> <th style="width: 10%;">Field Filtered ⁽³⁾</th> <th style="width: 10%;">Sample Matrix ⁽⁴⁾</th> </tr> </thead> <tbody> <tr><td>S-6-12</td><td>10-12-14</td><td>1630</td><td>N</td><td>N</td><td>P</td></tr> <tr><td>S-6-13</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S-6-14</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S-6-15</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S-6-16</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S-6-17</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B-1-1</td><td></td><td>1700</td><td></td><td></td><td></td></tr> <tr><td>B-1-2</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B-1-3</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B-1-4</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | QC Code ⁽²⁾ | Field Filtered ⁽³⁾ | Sample Matrix ⁽⁴⁾ | S-6-12 | 10-12-14 | 1630 | N | N | P | S-6-13 | | | | | | S-6-14 | | | | | | S-6-15 | | | | | | S-6-16 | | | | | | S-6-17 | | | | | | B-1-1 | | 1700 | | | | B-1-2 | | | | | | B-1-3 | | | | | | B-1-4 | | | | | | TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: _____ Specify: _____ (Subject to Surcharge) Fax Results: <input checked="" type="checkbox"/> / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4 Sample Collection Time Zone Eastern Pacific Other _____ Central Mountain | |
| Sample ID | *Date Collected (mm-dd-yy) | *Time Collected (Military) (hhmm) | QC Code ⁽²⁾ | Field Filtered ⁽³⁾ | Sample Matrix ⁽⁴⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-12 | 10-12-14 | 1630 | N | N | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-6-17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-1-1 | | 1700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-1-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-1-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B-1-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chain of Custody Signatures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By (Signed) _____ Date _____ Time _____ | | Received by (signed) _____ Date _____ Time _____ | | GEL PM: _____ Method of Shipment: _____ Date Shipped: _____ Airbill #: _____ Airbill #: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 <u>8402</u> 10/14/14 | | 1 <u>Fedex</u> | | 1 <u>10/14/14</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 _____ | | 2 <u>St. Francis Hospital</u> 10/16/14/0840 | | 2 _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 _____ | | 3 _____ | | 3 _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal 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). 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WHITE = LABORATORY YELLOW = FILE PINK = CLIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

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

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).

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WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT



SAMPLE RECEIPT & REVIEW FORM

| | | | |
|--|-----|--------------------------------------|--|
| Client: <u>St. Francis</u> | | SDG/AR/COC/Work Order: <u>359241</u> | |
| Received By: <u>SE</u> | | Date Received: <u>10.16.14</u> | |
| Suspected Hazard Information | Yes | No | *If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation. |
| COC/Samples marked as radioactive? | | <input checked="" type="checkbox"/> | Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> |
| Classified Radioactive II or III by RSO? | | <input checked="" type="checkbox"/> | If yes, Were swipes taken of sample containers < action levels? |
| COC/Samples marked containing PCBs? | | <input checked="" type="checkbox"/> | |
| Package, COC, and/or Samples marked as beryllium or asbestos containing? | | <input checked="" type="checkbox"/> | If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group. |
| Shipped as a DOT Hazardous? | | <input checked="" type="checkbox"/> | Hazard Class Shipped: UN#: |
| Samples identified as Foreign Soil? | | <input checked="" type="checkbox"/> | |

| Sample Receipt Criteria | Yes | NA | No | Comments/Qualifiers (Required for Non-Conforming Items) |
|---|-------------------------------------|-------------------------------------|----|--|
| 1 Shipping containers received intact and sealed? | <input checked="" type="checkbox"/> | | | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?* | | <input checked="" type="checkbox"/> | | Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>19</u> |
| 2a Daily check performed and passed on IR temperature gun? | <input checked="" type="checkbox"/> | | | Temperature Device Serial #: <u>130469902</u> Secondary Temperature Device Serial # (If Applicable): |
| 3 Chain of custody documents included with shipment? | <input checked="" type="checkbox"/> | | | |
| 4 Sample containers intact and sealed? | <input checked="" type="checkbox"/> | | | Circle Applicable: Seals broken Damaged container Leaking container Other (describe) |
| 5 Samples requiring chemical preservation at proper pH? | | <input checked="" type="checkbox"/> | | Sample ID's, containers affected and observed pH: If Preservation added, Lot#: |
| 6 VOA vials free of headspace (defined as < 6mm bubble)? | | <input checked="" type="checkbox"/> | | Sample ID's and containers affected: |
| 7 Are Encore containers present? | | <input checked="" type="checkbox"/> | | (If yes, immediately deliver to Volatiles laboratory) |
| 8 Samples received within holding time? | <input checked="" type="checkbox"/> | | | ID's and tests affected: |
| 9 Sample ID's on COC match ID's on bottles? | <input checked="" type="checkbox"/> | | | Sample ID's and containers affected: |
| 10 Date & time on COC match date & time on bottles? | | <input checked="" type="checkbox"/> | | Sample ID's affected: <u>none on samples</u> |
| 11 Number of containers received match number indicated on COC? | <input checked="" type="checkbox"/> | | | Sample ID's affected: |
| 12 Are sample containers identifiable as GEL provided? | | <input checked="" type="checkbox"/> | | |
| 13 COC form is properly signed in relinquished/received sections? | <input checked="" type="checkbox"/> | | | |
| 14 Carrier and tracking number. | | | | Circle Applicable: FedEx Air <u>FedEx Ground</u> UPS Field Services Courier Other <u>9622 0019 0</u> <u>(000 448 3673 4)</u> <u>00 7714 8934 0330</u> |

Comments (Use Continuation Form if needed):

Data Package Qualifier Definitions

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 |
| 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.

Laboratory Certifications

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 |