

# STL

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## ANALYTICAL REPORT


Air Sampling Filters

Lot #: F7G310155

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TESTAMERICA LABORATORIES, INC. (FKA STL)

  
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August 1, 2007

Leaders in Environmental Testing

Case Narrative  
LOT NUMBER: F7G310155

This report contains the analytical results for the two samples received under chain of custody by STL St. Louis on July 31, 2007. These samples are associated with your Air Sampling Filters project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

**Observations/Nonconformances**

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There are no observations or nonconformances associated with these samples.

## METHODS SUMMARY

F7G310155

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gross Alpha/Beta by GFPC Th230/Sr90-Y90 cal	DOE RP-710 MOD	

**References:**

DOE "DOE METHODS FOR EVALUATING ENVIRONMENTAL AND WASTE  
MANAGEMENT SAMPLES" OCTOBER 1994 US DEPARTMENT OF ENERGY

**SAMPLE SUMMARY****F7G310155**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
J3WQ4	001	CEMP-09593	07/09/07	09:27
J3WTK	002	CEMP-09594	07/09/07	09:50

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## Desert Research Institute

Client Sample ID: CEMP-09593

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7G310155-001  
 Work Order: J3W04  
 Matrix: AIR

Date Collected: 07/09/07 0927  
 Date Received: 07/31/07 0900

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Analysis Date
GROSS A/B BY DOE RP-710 MOD				pCi/sample	Batch # 7212291		Yld %
Gross Alpha	0.69	J	0.30	10.0	0.31	07/31/07	07/31/07
Gross Beta	14.7		1.8	10.0	0.5	07/31/07	07/31/07

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

## Desert Research Institute

Client Sample ID: CEMP-09593 DUP

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7G310155-001X  
 Work Order: J3WO4  
 Matrix: AIR

Date Collected: 07/09/07 0927  
 Date Received: 07/31/07 0900

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Analysis Date
GROSS A/B BY DOE RP-710 MOD				pCi/sample	Batch # 7212291	Yld %	
Gross Alpha	0.63	J	0.29	10.0	0.32	07/31/07	07/31/07
Gross Beta	14.8		1.8	10.0	0.5	07/31/07	07/31/07

**NOTE(S)**

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

## Desert Research Institute

Client Sample ID: CEMP-09594

Severn Trent Laboratories - Radiochemistry

Lab Sample ID: F7G310155-002  
 Work Order: J3WTK  
 Matrix: AIR

Date Collected: 07/09/07 0950  
 Date Received: 07/31/07 0900

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Analysis Date
GROSS A/B BY DOE RP-710 MOD				pCi/sample	Batch # 7212291		Yld %
Gross Alpha	0.93	J	0.35	10.0	0.31	07/31/07	07/31/07
Gross Beta	16.4		2.0	10.0	0.5	07/31/07	07/31/07

**NOTE(S)**

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

## METHOD BLANK REPORT

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7G310155  
 Matrix: AIR

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
GROSS A/B BY DOE RP-710 MOD			pCi/sam ple	Batch #	7212291	Yld %	F7G310000-291B
Gross Alpha	0.43	J	0.25	10.0	0.32	07/31/07	07/31/07
Gross Beta	0.16	U	0.23	10.0	0.51	07/31/07	07/31/07

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.



## Laboratory Control Sample Report

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7G310155  
 Matrix: AIR

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	MDC	% Yld	% Rec	Lab Sample ID
							QC Control Limits
GROSS A/B BY DOE RP-710 MOD			pCi/samp	RP-710 MOD	F7G310000-291C		
Gross Alpha	74.9	68.8	7.4	0.3		92	(83 - 103)
Gross Beta	60.2	62.8	6.6	0.5		104	(95 - 115)
	Batch #:	7212291		Analysis Date:	07/31/07		

## NOTE(S)

MDC is determined by instrument performance only  
 Calculations are performed before rounding to avoid round-off error in calculated results

## DUPLICATE EVALUATION REPORT

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: F7G310155  
 Matrix: AIR

Date Sampled: 07/09/07  
 Date Received: 07/31/07

Parameter	SAMPLE Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2 $\sigma$ +/-)	% Yld	QC Sample ID	
							Precision	
GROSS A/B BY DOE RP-710 MOD			pCi/samp	RP-710 MOD		F7G310155-001		
Gross Alpha	0.69 J	0.30		0.63 J	0.29		10	%RPD
Gross Beta	14.7	1.8		14.8	1.8		0.7	%RPD
	Batch #:	7212291 (Sample)		7212291 (Duplicate)				

## NOTE(S)

Data are incomplete without the case narrative.

Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.



