

PWS ID NJ-0221001
SAMPLE POINT ID TP003015

PSmith

RECEIVED

2008 JAN 14 PM 3:05

BUREAU OF SAFE
DRINKING WATER

Garfield Water Department

Client Sample ID: G1 ELMWOOD PARK PUMP STATION

HPLC

Lot-Sample #....: D7L130149-001 Work Order #....: KD23Q1AA Matrix.....: WATER
Date Sampled....: 12/12/07 10:13 Date Received...: 12/13/07
Prep Date.....: 12/19/07 Analysis Date...: 12/21/07
Prep Batch #....: 7353153 Analysis Time...: 20:54
Dilution Factor: 1
Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS
PFOS	0.017	0.010	ug/L
PFOA	0.029	0.015	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	94	(50 - 200)
13C4 PFOS	72	(50 - 200)

PWS ID NJ 0221001
SAMPLE POINT ID TP003015

METHOD BLANK REPORT

HPLC

Client Lot #...: D7L130149
MB Lot-Sample #: R7L190000-153

Work Order #...: KEE591AA

Matrix.....: WATER

Analysis Date...: 12/21/07
Dilution Factor: 1

Prep Date.....: 12/19/07
Prep Batch #...: 7353153

Analysis Time...: 20:06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
PFOA	ND	0.015	ug/L	DEN -LC-0012
PFOS	ND	0.010	ug/L	DEN -LC-0012
<u>SURROGATE</u>	<u>PERCENT</u>		<u>RECOVERY</u>	
	<u>RECOVERY</u>		<u>LIMITS</u>	
13C4 PFOA	83		(50 - 200)	
13C4 PFOS	62		(50 - 200)	

NOTE(S):

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

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EXECUTIVE SUMMARY - Detection Highlights

D7L130149

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
G1 ELMWOOD PARK PUMP STATION 12/12/07 10:13 001				
PPOS	0.017	0.010	ug/L	DEN -LC-0012
PFOA	0.029	0.015	ug/L	DEN -LC-0012

Case Narrative

D7L130149

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. Dilution factors and footnotes are provided on each datasheet to assist in the interpretation of the results.

The results relate only to the samples in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have found to be compliant with laboratory protocols with any exceptions noted below.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL. Unless otherwise noted, results for solids have been dry weight corrected.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Arrival and Receipt

The following report contains the analytical results for one sample received 12/13/07, according to documented sample acceptance procedures. The sample was received in good condition at a temperature of 5.5°C. No anomalies were encountered during sample receipt.

Standards

Analytical standards were prepared using the acid form of the compound perfluorooctanoic acid (PFOA). PFOS is a commercial prepared and certified solution.

Perfluoro-n-[1,2,3,4-¹³C₄]octanoic acid was introduced at the extraction step and was used as an internal standard for quantitation of PFOA. Perfluoro-1-[1,2,3,4-¹³C₄]octanesulfonate was introduced at the extraction step and was used as an internal standard for quantitation of PFOS.

Sample Extraction and Analysis

The samples presented in this report were analyzed for the target analyte by TestAmerica Denver's SOP DEN-LC-0012A.

For water samples a 250 mL aliquot of each sample is acidified with 1 mL of 6N HCl solution and it is extracted using solid phase extraction technique with methanol conditioned C18 cartridges. Each sample is spiked with the internal standard, prior to extraction. After the sample is passed through the cartridge, the analytes are eluted with 4 mL of methanol. The final volume is brought to 5 mL using methanol and the extract is analyzed by LC/MS/MS.

Method QC Samples

The Method Blank is processed reagent water spiked with surrogate and prepared with each batch of 20 samples of the same matrix. The method blank was non-detect for the target analytes at the reporting limits.

Each batch is prepared with a Laboratory Control Sample (LCS). The recoveries of two concentration levels of Laboratory Control Samples were within control limits. The internal standard recovery for 13C4 PFOS in the mid-level LCS was below the lower control limit. No corrective action was necessary as the control limits for this internal standard are still being established.

Analytical Comments

The method required MS/MSD could not be performed for QC batch 7353153, due to insufficient sample volume submitted. The acceptable LCS analyte recoveries for two levels provide evidence that the laboratory is performing the method within acceptable guidelines.

No other anomalies were observed.