



PETER TYRRELL
UNITED WATER CITY OF ORANGE
CHESTNUT STREET PLANT AT
632 BEACH STREET
ORANGE, NJ 07050

Regarding:

PETER TYRRELL
UNITED WATER CITY OF ORANGE
CHESTNUT STREET PLANT AT
632 BEACH STREET
ORANGE, NJ 07050

Account No: C00927, UNITED WATER CITY OF ORANGE
Project No: C00927, UNITED WATER CITY OF ORANGE

P.O. No:
PWSID No: 0717001

Inv. No: 963474

Sample Number L2604751-1	Sample Description CHESTNUT ST Received Temp: 36 F Iced (Y/N): Y	Samp. Date/Time/Temp 04/02/08 08:30am NA F	Sampled by Customer Sampled		
Parameter PFOA	Method	MCL	Result ATTACHED	RLs	Test Date,Time
Sample Number L2604751-2	Sample Description ORANGE PARK Received Temp: 36 F Iced (Y/N): Y	Samp. Date/Time/Temp 04/02/08 07:45am NA F	Sampled by Customer Sampled		
Parameter PFOA	Method	MCL	Result ATTACHED	RLs	Test Date,Time
Sample Number L2604751-3	Sample Description GIST PLACE	Samp. Date/Time/Temp 04/02/08 08:05am NA F	Sampled by Customer Sampled		

- A result of "ND" indicates the concentration of the analyte tested was either not detected or below the RLs.
- Definitions: ND=not detected; NEG=negative; POS=positive; COL=colonies; RLs=laboratory reporting limits; L/A=lab accident; TNTC=too numerous to count; NL=No Permit Limits.
- A result marked with "DRY" indicates that the result was calculated and reported on a dry weight basis.
- All analysis, except field tests are conducted in Southampton, PA unless otherwise identified.
- The test "pH lab" is analyzed upon receipt at the laboratory, the result will not be suitable for regulatory purposes.
- Actual times of analysis for parameters reported <24 hours are available upon request. All testing is conducted within the required holding time unless otherwise noted.
- QC NELAP ID's: PA 09-00131, NJ PA166, FL E87954, NY 11223, CT PH-0768, DE PA-018, KY 90228, MD 206, EPA PA00018. Bioassay: PA 09-03574, NJ PA034, FL E87953, KS E10373, SC 89020001.
- QC STATE ID's: Wind Gap, NJ PA001, PA 48-01334; E RUTHERFORD NJ02015; Vineland NJ06005; Reading PA 06-03543.
- MCL= is the recommended EPA "Maximum Contaminant Level" for a parameter. PLs=customer specific permit limits.
- Regulatory authorities are assessing substantial fines for testing omissions. Please track your sample collections and results on a weekly, monthly, or quarterly basis to ensure compliance. QC's internet program 'LIVE ACCESS' will provide you with real-time access to collection dates and results. Please contact Customer Service for further information on acquiring LIVE ACCESS.

Thomas J. Hines
Thomas J. Hines, President

QC Laboratories

Analytical Report



Account No: C00927, UNITED WATER CITY OF ORANGE
Project No: C00927, UNITED WATER CITY OF ORANGE

P.O. No:
PWSID No: 0717001

Inv. No: 963474

Received Temp: 36 F Iced (Y/N): Y

Parameter PFOA	Method	MCL	Result ATTACHED	RLs	Test Date,Time
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Thomas J. Hines
Thomas J. Hines, President

L 2604751



ANALYTICAL REPORT

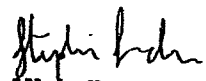
PFOA/PFOS Analysis

Lot #: D8D040262

Nicki Smith

**QC Laboratories, Inc.
1205 Industrial Highway
Southampton, PA 18966**

TestAmerica Laboratories, Inc.


**FOR: Michelle A. Johnston
Project Manager**

April 17, 2008

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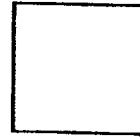
Standard Deliverables

Report Contents

Total Number of Pages

Standard Deliverables

The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.



- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
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Case Narrative

D8D040262

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 three samples received 4/4/08, according to documented sample acceptance procedures. The samples were received in good condition at a temperature of 2.3°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]octanatesulfonate was introduced at the extraction step and was used as an internal standard for quantitation of PFOS.

Sample Extraction and Analysis

The sample presented in this report was 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 at the reporting limit.

Each batch is prepared with a Laboratory Control Sample (LCS). The recoveries of two concentration levels of Laboratory Control Samples were within control limits.

Analytical Comments

The Standard Operating Procedure (SOP) was altered slightly for these samples in the sample prep and LC conditions. The alterations are listed below.

Sample Prep Differences:

The samples were prepped following the normal procedure for SOP DEN-LC-0012, Revision 4 up until section 10.1.3.10. These samples were not acidified and a Waters Oasis Wax column was used instead of a Phenomenex Strata X column. The samples were rinsed 2 times with 6 mL of formic acid solution instead of HPLC grade water, which differs from section 10.1.3.19. The formic acid solution is prepped by diluting 2.225 mL of 88% formic acid to 100 mL with water. Section 10.1.3.20 was altered by adding 4 mL of 1% ammonium hydroxide in methanol to each cartridge instead of 4 mL of methanol.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D8D040262

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
L2604751-1 04/02/08 08:30 001				
PFOA	0.030	0.010	ug/L	DEN -LC-0012
PFOS	0.0082 J	0.010	ug/L	DEN -LC-0012
L2604751-2 04/02/08 07:45 002				
PFOA	0.066	0.010	ug/L	DEN -LC-0012
PFOS	0.0085 J	0.010	ug/L	DEN -LC-0012
L2604751-3 04/02/08 08:05 003				
PFOA	0.071	0.010	ug/L	DEN -LC-0012
PFOS	0.016	0.010	ug/L	DEN -LC-0012

METHODS SUMMARY

D8D040262

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
LC/MS/MS, PFOA	DEN -LC-0012	

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

METHOD / ANALYST SUMMARY

D8D040262

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
DEN -LC-0012	Jaqueline Bonnett	003601

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

SAMPLE SUMMARY

D8D040262

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KKQVV	001	L2604751-1	04/02/08	08:30
KKQVX	002	L2604751-2	04/02/08	07:45
KKQVO	003	L2604751-3	04/02/08	08:05

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.

QC Laboratories

Client Sample ID: L2604751-1

HPLC

Lot-Sample #....: D8D040262-001 Work Order #....: KKQVV2AA Matrix.....: WATER
 Date Sampled....: 04/02/08 08:30 Date Received...: 04/04/08
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #....: 8100121 Analysis Time...: 00:42
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	LIMIT	UNITS
PFOA	0.030	0.010	ug/L
PFOS	0.0082 J	0.010	ug/L
PERCENT RECOVERY		RECOVERY LIMITS	
13C4 PFOA	115	(50 - 200)	
13C4 PFOS	76	(50 - 200)	

NOTE(S) :

J Estimated result. Result is less than RL.

QC Laboratories

Client Sample ID: L2604751-2

HPLC

Lot-Sample #....: D8D040262-002 Work Order #....: KKQVX2AA Matrix.....: WATER
 Date Sampled....: 04/02/08 07:45 Date Received...: 04/04/08
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #....: 8100121 Analysis Time...: 01:21
 Dilution Factor: 1
 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS
PFOA	0.066	0.010	ug/L
PFOS	0.0085 J	0.010	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	110	(50 - 200)
13C4 PFOS	76	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

QC Laboratories

Client Sample ID: L2604751-3

HPLC

Lot-Sample #....: D8D040262-003 Work Order #....: KKQV02AA Matrix.....: WATER
Date Sampled....: 04/02/08 08:05 Date Received...: 04/04/08
Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
Prep Batch #....: 8100121 Analysis Time...: 01:35
Dilution Factor: 1
Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
PFOA	0.071	0.010	ug/L
PFOS	0.016	0.010	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C4 PFOA	108	(50 - 200)
13C4 PFOS	64	(50 - 200)

QC DATA ASSOCIATION SUMMARY

D8D040262

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	DEN -LC-0012		8100121	8100064
002	WATER	DEN -LC-0012		8100121	8100064
003	WATER	DEN -LC-0012		8100121	8100064

METHOD BLANK REPORT

HPLC

Client Lot #...: D8D040262
MB Lot-Sample #: R8D090000-121

Work Order #...: KKXWT1AA

Matrix.....: WATER

Analysis Date...: 04/10/08
Dilution Factor: 1

Prep Date.....: 04/09/08
Prep Batch #...: 8100121

Analysis Time...: 23:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
PFOA	ND	0.010	ug/L	DEN -LC-0012
PFOS	ND	0.010	ug/L	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	101	(50 - 200)
13C4 PFOS	60	(50 - 200)

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #....: D8D040262 Work Order #....: KXXWT1AC Matrix.....: WATER
 LCS Lot-Sample#: R8D090000-121
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #....: 8100121 Analysis Time...: 00:03
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
PFOA	98	(70 - 130)	DEN -LC-0012
PFOS	93	(39 - 120)	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	108	(50 - 200)
13C4 PFOS	72	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #....: D8D040262 Work Order #....: KXWT1AC Matrix.....: WATER
 LCS Lot-Sample#: R8D090000-121
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #....: 8100121 Analysis Time...: 00:03
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
PFOA	0.200	0.197	ug/L	98	DEN -LC-0012
PFOS	0.200	0.186	ug/L	93	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C4 PFOA	108	(50 - 200)
13C4 PFOS	72	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8D040262 Work Order #...: KKKWT1AD Matrix.....: WATER
 LCS Lot-Sample#: R8D090000-121
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #...: 8100121 Analysis Time...: 00:16
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
PFOA	98	(70 - 130)	DEN -LC-0012
PFOS	98	(39 - 120)	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	115	(50 - 200)
13C4 PFOS	97	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: D8D040262 Work Order #...: KXWT1AD Matrix.....: WATER
 LCS Lot-Sample#: R8D090000-121
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #...: 8100121 Analysis Time...: 00:16
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
PFOA	0.0200	0.0196	ug/L	98	DEN -LC-0012
PFOS	0.0200	0.0196	ug/L	98	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	115	(50 - 200)
13C4 PFOS	97	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: D8D040262 Work Order #...: KKQVV1AC-MS Matrix.....: WATER
 MS Lot-Sample #: D8D040262-001 KKQVV1AD-MSD
 Date Sampled...: 04/02/08 08:30 Date Received...: 04/04/08
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #...: 8100121 Analysis Time...: 00:55
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
PFOA	95	(70 - 130)			DEN -LC-0012
	95	(70 - 130)	0.44	(0-20)	DEN -LC-0012
PFOS	87	(39 - 120)			DEN -LC-0012
	89	(39 - 120)	1.9	(0-20)	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	112	(50 - 200)
	112	(50 - 200)
13C4 PFOS	81	(50 - 200)
	84	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #....: D8D040262 Work Order #....: KKQVV1AC-MS Matrix.....: WATER
 MS Lot-Sample #: D8D040262-001 KKQVV1AD-MSD
 Date Sampled....: 04/02/08 08:30 Date Received...: 04/04/08
 Prep Date.....: 04/09/08 Analysis Date...: 04/11/08
 Prep Batch #....: 8100121 Analysis Time...: 00:55
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
PFOA	0.030	0.210	0.230	ug/L	95		DEN -LC-0012
	0.030	0.210	0.229	ug/L	95	0.44	DEN -LC-0012
PFOS	0.0082	0.210	0.192	ug/L	87		DEN -LC-0012
	0.0082	0.210	0.195	ug/L	89	1.9	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	112	(50 - 200)
	112	(50 - 200)
13C4 PFOS	81	(50 - 200)
	84	(50 - 200)

NOTE(S) :

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

Bold print denotes control parameters

RECEIVED
 2008 MAY 21 PM 1:58
 BUREAU OF STATE
 DRINKING WATER

STL Denver

23°C, 100%
2m 4/14/08



CHAIN OF CUSTODY

Page ____ of ____

1205 Industrial Blvd.
Southampton, PA 18966-0514
Phone: 215-355-3900
Fax: 215-355-7231

Bill to/Report to: (if different)

Client/Acct. No.

Address

Sampling Site Address: (if different)

City/State/Zip

Phone/Fax

P.O. No.

Client Contact

QC Contact

PROJECT

FIELD ID

DATE

Military Time

Matrix

Code

Total

Number of Containers

Analysis Requested

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

SAMPLED BY: (Name/Company)

Verbal/fax data due:

Hardcopy due:

Please call for pricing and availability on rush (<14-21 day) turnaround and on all but standard format.

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

RELINQUISHED BY SAMPLER

DATE

TIME

RECEIVED BY

DATE

TIME

RECEIVED BY

DATE

TIME

Lab LIMS No:

LAB USE ONLY

ANALYSIS REQUESTED

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

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Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

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Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

MATRIX CODES

DW: DRINKING WATER

GW: GROUND WATER

WW: WASTEWATER

SO: SOIL

SL: SLUDGE

OL: OIL

SOL: NON SOLID

MI: MISCELLANEOUS

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

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Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous

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Miscellaneous

X: OTHER

Field pH, Temp (C or F), DO, O₂, S. Cond. etc.

Miscellaneous