



Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Horsham Water & Sewer Authority
617 Horsham Road
Horsham, PA 19044
Attention: Tina M. O'Rourke
Fax: (215) 672-8065

Date of Issue

07/09/2014

EUROFINS EATON
ANALYTICAL

TDF: Thomas.D.French
Project Manager

Report: 487617
Project: UCMR3
Group: PA1460033/Horsham
W&SA GW

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x		
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻² D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Horsham Water & Sewer Authority**
 617 Horsham Road
 Horsham, PA 19044

Client ID: HORSHAM-PA
 Folder #: 487617
 Project: UCMR3
 Sample Group: PA1460033/Horsham W&SA GW

Attn: Tina M. O'Rourke
 Phone: (215) 672-8011

Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **June 27, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201406270399</u>	00102-102-Well # 2	06/25/2014 1105
	Sample Type: EP Sample Event: SE1 Facility ID: 00102 Sample Point ID: 102 PWSID: PA1460033 Static ID: EP	
	@UCMR3 522 C @UCMR3 537	
<u>201406270400</u>	FB: 00102-102-Well # 2	06/25/2014 0800
	@UCMR3 537 FB	

Test Description

@UCMR3 522 C -- UCMR3 1,4-Dioxane by EPA 522

@UCMR3 537 -- UCMR3 537

@UCMR3 537 FB -- UCMR3 537



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Laboratory Comments
Report: 487617

Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

The Comments Report may be blank if there are no comments for this report.



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UCMR Field Blank
Report: 487617

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Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

Samples Received on:
06/27/2014

The results section will be blank if there are no exceedances of UCMR3 Field Blank criteria. Field Blank Evaluation is required for positive detection in the associated sample for Metals by 200.8, VOCs by 524.3, PFCs by 537, and Hormones by 539 (SS monitoring only). A detection on this report indicates need for re-sample for the associated site and test. Reference: UCMR3 Laboratory Approval Requirements and Information Document V2, May 2012 section 8.1 Field Blanks.

UCMR3 Field Blanks are not required to be analyzed, if the target analytes are not detected in the associated samples. In that event, the Field Blank data are not available (NA) for reporting.

Results Section

Analyzed	Analyte	Sample ID	Result	Units	UCMR Limit
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SUMMARY OF POSITIVE DATA ONLY

<u>Method</u>	<u>Method description</u>	<u>Positive Data Limit = UCMR Limit</u>
@UCMR3 200.8 FB	Metals	Any detection Greater than 1/3
@UCMR3 524.3 TB	Volatiles	MRL
@UCMR3 537 FB	Perfluorinated	Any detection Greater than 1/3
@UCMR3 539 FB	Hormones	MRL



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Laboratory Hits
Report: 487617

Horsham Water & Sewer Authority
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Horsham, PA 19044

Samples Received on:
06/27/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
07/08/2014 2:24	1,4-Dioxane	<u>00102-102-Well # 2</u>	0.16		ug/L	0.07

SUMMARY OF POSITIVE DATA ONLY



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Laboratory Data
Report: 487617

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Samples Received on:
06/27/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
00102-102-Well # 2 (201406270399)						Sampled on 06/25/2014 1105		
Sample Type: EP								
Sample Event: SE1								
Facility ID: 00102								
Sample Point ID: 102								
PWSID: PA1460033								
Static ID: EP								
EPA 522 - UCMR3 1,4-Dioxane by EPA 522								
7/1/2014	07/08/2014	2:24	779540	(EPA 522)	1,4-Dioxane	0.16	ug/L	0.07 1
7/1/2014	07/08/2014	2:24	779540	(EPA 522)	Dioxane-d8	93	%	1
7/1/2014	07/08/2014	2:24	779540	(EPA 522)	THF-d8	85	%	1
EPA 537 - UCMR3 537								
07/02/2014	10:47	778869	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.04	1
07/02/2014	10:47	778869	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
07/02/2014	10:47	778869	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.03	1
07/02/2014	10:47	778869	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
07/02/2014	10:47	778869	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
07/02/2014	10:47	778869	(EPA 537)	Perfluorooctanoic acid - PFOA	ND	ug/L	0.02	1
07/02/2014	10:47	778869	(EPA 537)	13C-PFDA - Surr#2	103	%		1
07/02/2014	10:47	778869	(EPA 537)	13C-PFHxA - Surr#1	102	%		1
07/02/2014	10:47	778869	(EPA 537)	13C-PFOA- IS#1	103	%		1
07/02/2014	10:47	778869	(EPA 537)	13C-PFOS- IS#2	104	%		1

Rounding on totals after summation.
(c) - indicates calculated results



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Laboratory
QC Summary: 487617

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Horsham Water & Sewer Authority

QC Ref # 778869 - UCMR3 537

201406270399 00102-102-Well # 2

Analysis Date: 07/02/2014

Analyzed by: 1CL

QC Ref # 779540 - UCMR3 1,4-Dioxane by EPA 522

201406270399 00102-102-Well # 2

Analysis Date: 07/08/2014

Analyzed by: CRW

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 778869 - UCMR3 537 by EPA 537						Analysis Date: 07/02/2014			
CCCH	13C-PFDA - Surr#2 (S)			100	%	101	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			97.1	%	97	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			97.9	%	98	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			105	%	105	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			107	%	107	(70-130)		
MS1_201406260488	13C-PFDA - Surr#2 (S)			104	%	104	(70-130)		
MSD1_201406260488	13C-PFDA - Surr#2 (S)			102	%	102	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			98.8	%	99	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			97.0	%	97	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			98.1	%	98	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			96.5	%	96	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
MS1_201406260488	13C-PFHxA - Surr#1 (S)			96.9	%	97	(70-130)		
MSD1_201406260488	13C-PFHxA - Surr#1 (S)			97.7	%	98	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			98.0	%	98	(70-130)		
CCCH	13C-PFOA- IS#1 (I)			104	%	104	(50-150)		
CCCL	13C-PFOA- IS#1 (I)			105	%	105	(50-150)		
CCCM	13C-PFOA- IS#1 (I)			103	%	103	(50-150)		
MBLK_HI	13C-PFOA- IS#1 (I)			104	%	104	(50-150)		
MRLHI	13C-PFOA- IS#1 (I)			107	%	107	(50-150)		
MS1_201406260488	13C-PFOA- IS#1 (I)			99.7	%	100	(50-150)		
MSD1_201406260488	13C-PFOA- IS#1 (I)			99.3	%	99	(50-150)		
QCS	13C-PFOA- IS#1 (I)			101	%	101	(50-150)		
CCCH	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
CCCL	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
CCCM	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
MBLK_HI	13C-PFOS- IS#2 (I)			97.6	%	98	(50-150)		
MRLHI	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
MS1_201406260488	13C-PFOS- IS#2 (I)			101	%	101	(50-150)		
MSD1_201406260488	13C-PFOS- IS#2 (I)			100	%	100	(50-150)		
QCS	13C-PFOS- IS#2 (I)			105	%	105	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.127	ug/L	99	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0309	ug/L	97	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0644	ug/L	101	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0423	ug/L	106	(50-150)		
MS1_201406260488	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0489	ug/L	104	(50-150)		
MSD1_201406260488	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0486	ug/L	103	(50-150)	30	0.62
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0471	ug/L	98	(70-130)		
CCCH	Perfluoro-1-butanefulfonic acid -PFBS		0.29	0.289	ug/L	99	(70-130)		
CCCL	Perfluoro-1-butanefulfonic acid -PFBS		0.078	0.0770	ug/L	99	(50-150)		
CCCM	Perfluoro-1-butanefulfonic acid -PFBS		0.15	0.150	ug/L	103	(70-130)		
MBLK_HI	Perfluoro-1-butanefulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanefulfonic acid -PFBS		0.09	0.107	ug/L	119	(50-150)		
MS1_201406260488	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.091	0.108	ug/L	117	(50-150)		
MSD1_201406260488	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.091	0.109	ug/L	117	(50-150)	30	0.92
QCS	Perfluoro-1-butanefulfonic acid -PFBS		0.044	0.0485	ug/L	109	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0973	ug/L	101	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0232	ug/L	97	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0468	ug/L	98	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0324	ug/L	108	(50-150)		
MS1_201406260488	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0364	ug/L	109	(50-150)		
MSD1_201406260488	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0365	ug/L	109	(50-150)	30	0.27
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0445	ug/L	93	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0320	ug/L	100	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00781	ug/L	98	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0161	ug/L	100	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.0102	ug/L	102	(50-150)		
MS1_201406260488	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.0136	ug/L	100	(50-150)		
MSD1_201406260488	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.0140	ug/L	104	(50-150)	30	2.9
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0534	ug/L	107	(70-130)		
CCCH	Perfluoro-n-nonanoic acid -PFNA		0.064	0.0634	ug/L	99	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0170	ug/L	106	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0342	ug/L	107	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0234	ug/L	117	(50-150)		
MS1_201406260488	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0237	ug/L	117	(50-150)		
MSD1_201406260488	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0235	ug/L	115	(50-150)	30	0.85
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0487	ug/L	98	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0635	ug/L	99	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0156	ug/L	98	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0325	ug/L	101	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0220	ug/L	110	(50-150)		
MS1_201406260488	Perfluorooctanoic acid - PFOA	ND	0.02	0.0391	ug/L	113	(50-150)		
MSD1_201406260488	Perfluorooctanoic acid - PFOA	ND	0.02	0.0385	ug/L	110	(50-150)	30	1.6
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0504	ug/L	101	(70-130)		
QC Ref# 779540 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						Analysis Date: 07/07/2014			
CCCH	1,4-Dioxane		50	54.8	ug/L	110	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0700	ug/L	100	(50-150)		
CCCM	1,4-Dioxane		20	21.1	ug/L	106	(70-130)		
LCS1	1,4-Dioxane		20	16.2	ug/L	81	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0630	ug/L	90	(50-150)		
MS1_201406270399	1,4-Dioxane	0.16	0.07	0.239	ug/L	111	(50-150)		
MSD1_201406270399	1,4-Dioxane	0.16	0.07	0.246	ug/L	121	(50-150)	20	2.9
CCCH	Dioxane-d8			116	%	116	(70-130)		
CCCL	Dioxane-d8			108	%	108	(70-130)		
CCCM	Dioxane-d8			115	%	115	(70-130)		
LCS1	Dioxane-d8			90.3	%	90	(70-130)		
MBLK	Dioxane-d8			96.0	%				
MRL_CHK	Dioxane-d8			91.7	%	92	(70-130)		
MS1_201406270399	Dioxane-d8	93		93.1	%	93	(70-130)		
MSD1_201406270399	Dioxane-d8	93		91.9	%	92	(70-130)		
CCCH	THF-d8			81.2	%	81	(50-150)		
CCCL	THF-d8			82.8	%	83	(50-150)		
CCCM	THF-d8			78.9	%	79	(50-150)		
LCS1	THF-d8			78.5	%	79	(50-150)		
MBLK	THF-d8			67.6	%				
MRL_CHK	THF-d8			75.9	%	76	(50-150)		
MS1_201406270399	THF-d8	85		79.8	%	80	(50-150)		
MSD1_201406270399	THF-d8	85		63.0	%	63	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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