

US EPA ARCHIVE DOCUMENT

Report of Analysis

Fluorochemical Characterization of Aqueous Samples

Project Name: P0005537

MPI Research Laboratory Report No. L0021162

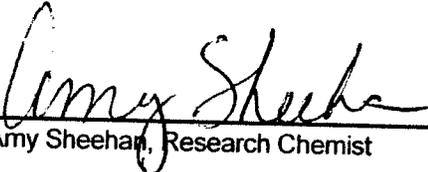
Testing Laboratory

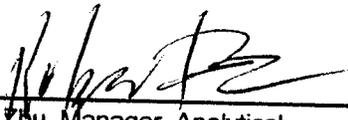
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6 Signatures


Amy Sheehan, Research Chemist
06/06/2010
Date


Robert Zhu, Manager, Analytical
6/8/10
Date

Summary of Fluorochemical Residues in Water Samples by LC/MS/MS

Sample ID	PFOA	PFOS
	Perfluorooctanoic Acid	Perfluorooctanesulfonate
	Analyte Found (ng/mL)	Analyte Found (ng/mL)
Well 5 - 051910	N/A	0.0117
Well 5 - 051910 Duplicate	N/A	0.0100
Well 9 - 051910	N/A	0.0508
Well 9 - 051910 Duplicate	N/A	0.0440
Well 10 - 051910	N/A	0.0691 ⁴
Well 10 - 051910 Duplicate	N/A	0.0515 ²
Well 7 - 051910	0.0389	0.0498
Well 7 - 051910 Duplicate	0.0398	0.0505
Well 6 - 051910	N/A	0.0506
Well 6 - 051910 Duplicate	N/A	0.0513
Well 13 - 051910	N/A	0.0422
Well 13 - 051910 Duplicate	N/A	0.0372
FB 5 - 051910	N/A	<0.010
FB 9 - 051910	N/A	<0.010
FB 10 - 051910	N/A	<0.010
FB 7 - 051910	<0.025 ¹	<0.010
FB 6 - 051910	N/A	<0.010
FB 13 - 051910	N/A	<0.010
Trip Blank 1	<0.025 ¹	<0.010

¹ The lowest calibration standard (0.005 ng/mL) was excluded from the calculation of the calibration curve because the average peak area of the method blanks was greater than 50% of the standard's peak area, resulting in an increased LOQ.

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 5 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0117	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 5 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0100	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 9 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0508	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 9 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0440	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 10 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0691 ²	0.010	5/28/2010

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 10 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0515 ²	0.010	5/28/2010

² The relative percent difference (RPD) of the duplicate sample was greater than 20% and is therefore outside of the QC acceptance criteria.

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 7 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0389	0.010	5/28/2010
PFOS- Perfluorooctanesulfonate	0.0498	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 7 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
C8 Acid- Perfluorooctanoic Acid	0.0398	0.010	5/28/2010
PFOS- Perfluorooctanesulfonate	0.0505	0.010	5/28/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 6 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0506	0.010	5/29/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 6 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0513	0.010	5/29/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 13 - 051910

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0422	0.010	5/29/2010

Summary of Fluorochemical Residues in Water Samples

Sample ID: Well 13 - 051910 Duplicate

Analyte	Result (ng/mL)	LOQ (ng/mL)	Date Analyzed
PFOS- Perfluorooctanesulfonate	0.0372	0.010	5/29/2010