

QR Print Management

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Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Paul Rooms**
Report **1218734-S**

 Project name **S401**

 Received Date **May 13, 2025**

Client Sample ID			S401
Sample Matrix			Soil
Eurofins Sample No.			N25-My0033054
Date Sampled			May 13, 2025
Test/Reference	LOR	Unit	
Sample Properties			
% Moisture	1	%	48
PFASs Summations			
Sum (PFHxS + PFOS)*	0.1	ug/kg	1.6
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.1	ug/kg	1.9
Sum of PFASs (n=30)*	0.5	ug/kg	4.7
Sum of US EPA PFAS (PFOS + PFOA)*	0.1	ug/kg	1.6
Sum of WA DWER PFAS (n=10)*	0.5	ug/kg	4.7
Perfluoroalkyl sulfonamido substances- Trace			
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.5	ug/kg	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.5	ug/kg	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.5	ug/kg	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.5	ug/kg	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.5	ug/kg	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.5	ug/kg	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.5	ug/kg	< 0.5
13C8-FOSA (surr.)	1	%	91
D3-N-MeFOSA (surr.)	1	%	INT
D5-N-EtFOSA (surr.)	1	%	INT
D7-N-MeFOSE (surr.)	1	%	INT
D9-N-EtFOSE (surr.)	1	%	INT
D5-N-EtFOSAA (surr.)	1	%	115
D3-N-MeFOSAA (surr.)	1	%	83
Perfluoroalkyl carboxylic acids (PFCAs) - Trace			
Perfluorobutanoic acid (PFBA) ^{N11}	0.5	ug/kg	2.1
Perfluoropentanoic acid (PFPeA) ^{N11}	0.1	ug/kg	0.2
Perfluorohexanoic acid (PFHxA) ^{N11}	0.1	ug/kg	0.3
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.1	ug/kg	^{N09} 0.2
Perfluorooctanoic acid (PFOA) ^{N11}	0.1	ug/kg	^{N09} 0.3
Perfluorononanoic acid (PFNA) ^{N11}	0.1	ug/kg	< 0.1
Perfluorodecanoic acid (PFDA) ^{N11}	0.1	ug/kg	< 0.1
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.1	ug/kg	< 0.1
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.1	ug/kg	< 0.1

Client Sample ID			S401
Sample Matrix			Soil
Eurofins Sample No.			N25-My0033054
Date Sampled			May 13, 2025
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs) - Trace			
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.1	ug/kg	< 0.1
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.1	ug/kg	< 0.1
13C4-PFBA (surr.)	1	%	108
13C5-PFPeA (surr.)	1	%	101
13C5-PFHxA (surr.)	1	%	108
13C4-PFHpA (surr.)	1	%	122
13C8-PFOA (surr.)	1	%	107
13C5-PFNA (surr.)	1	%	97
13C6-PFDA (surr.)	1	%	81
13C2-PFUnDA (surr.)	1	%	32
13C2-PFDoDA (surr.)	1	%	INT
13C2-PFTeDA (surr.)	1	%	14
Perfluoroalkyl sulfonic acids (PFSA)s- Trace			
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.1	ug/kg	< 0.1
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.1	ug/kg	< 0.1
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.1	ug/kg	< 0.1
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.1	ug/kg	< 0.1
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.1	ug/kg	^{N09} 0.3
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.1	ug/kg	< 0.1
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.1	ug/kg	^{N09} 1.3
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.1	ug/kg	< 0.1
13C3-PFBS (surr.)	1	%	112
18O2-PFHxS (surr.)	1	%	103
13C8-PFOS (surr.)	1	%	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)s- Trace			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.1	ug/kg	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.5	ug/kg	< 0.5
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.1	ug/kg	< 0.1
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.1	ug/kg	< 0.1
13C2-4:2 FTSA (surr.)	1	%	INT
13C2-6:2 FTSA (surr.)	1	%	193
13C2-8:2 FTSA (surr.)	1	%	181
13C2-10:2 FTSA (surr.)	1	%	24

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	May 13, 2025	14 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level	Sydney	May 13, 2025	
Perfluoroalkyl sulfonamido substances- Trace - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level	Sydney	May 14, 2025	28 Days
Perfluoroalkyl carboxylic acids (PFCAs) - Trace - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level	Sydney	May 14, 2025	28 Day
Perfluoroalkyl sulfonic acids (PFSAs)- Trace - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level	Sydney	May 14, 2025	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level	Sydney	May 14, 2025	28 Days



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Company Name: OR Print Management
Address:

Order No.:
Report #: 1218734
Phone:
Fax:

Received: May 13, 2025 9:30 AM
Due: May 16, 2025
Priority: 3 Day
Contact Name: Paul Rooms

Project Name: S401

Eurofins Analytical Services Manager : Irem Haskara

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	S401	May 13, 2025	7:55AM	Soil	N25-My0033054	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
µg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (<i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 0.5			0.5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 0.5			0.5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 0.5			0.5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 0.5			0.5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 0.5			0.5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 0.5			0.5	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluoropentanoic acid (PFPeA)	ug/kg	< 0.1			0.1	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotridecanoic acid (PFTeDA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA)s- Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 0.1			0.1	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)s- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 0.5			0.5	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	74			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	105			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	97			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	104			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	%	125			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	97			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanoic acid (PFHpA)			%	126			50-150	Pass	
Perfluorooctanoic acid (PFOA)			%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)			%	127			50-150	Pass	
Perfluorodecanoic acid (PFDA)			%	127			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)			%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)			%	108			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)			%	126			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)			%	99			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)s- Trace									
Perfluorobutanesulfonic acid (PFBS)			%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	95			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	76			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	71			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	96			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	86			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	116			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	115			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	75			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances- Trace				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-My0037401	NCP	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-My0037401	NCP	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-My0037401	NCP	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-My0037401	NCP	%	84			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-My0037401	NCP	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-My0037401	NCP	%	70			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-My0037401	NCP	%	83			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCA)s - Trace				Result 1					
Perfluorobutanoic acid (PFBA)	S25-My0037401	NCP	%	85			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-My0037401	NCP	%	84			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-My0037401	NCP	%	86			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-My0037401	NCP	%	78			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-My0037401	NCP	%	87			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-My0037401	NCP	%	86			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-My0037401	NCP	%	115			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-My0037401	NCP	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-My0037401	NCP	%	96			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-My0037401	NCP	%	92			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	S25-My0037401	NCP	%	87			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)s- Trace				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-My0037401	NCP	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-My0037401	NCP	%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-My0037401	NCP	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-My0037401	NCP	%	78			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-My0037401	NCP	%	70			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-My0037401	NCP	%	76			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-My0037401	NCP	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-My0037401	NCP	%	78			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)s- Trace				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-My0037401	NCP	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-My0037401	NCP	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-My0037401	NCP	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-My0037401	NCP	%	80			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-My0033184	NCP	%	13	13	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances- Trace				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD		
Perfluorooctanoic acid (PFOA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S25-My0036387	NCP	ug/kg	1.3	1.4	8.0	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)- Trace				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S25-My0036387	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-My0036387	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Irem Haskara	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#).

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