



CERTIFICATE OF ANALYSIS

Work Order : **ES2315684**
Client : **WORMALD AUSTRALIA PTY LTD**
Contact : Mr Justin Morris
Address : 91 DERBY ST
2128
Telephone : ----
Project : TRIDENT
Order number : ----
C-O-C number : ----
Sampler : Justin Morris
Site :
Quote number : EN/333
No. of samples received : 2
No. of samples analysed : 1

Page : 1 of 4
Laboratory : Environmental Division Sydney
Contact : Customer Services ES
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone : +61-2-8784 8555
Date Samples Received : 11-May-2023 15:35
Date Analysis Commenced : 15-May-2023
Issue Date : 17-May-2023 13:01



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories

Position

Accreditation Category

Franco Lentini

LCMS Coordinator

Sydney Organics, Smithfield, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.



Analytical Results

Sub-Matrix: PRODUCT
 (Matrix: PRODUCT)

Sample ID

				TRIDENT	----	----	----	----
Sampling date / time				11-May-2023 07:10	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2315684-002	-----	-----	-----	-----
				Result	----	----	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	mg/kg	<0.02	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	mg/kg	<0.02	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.02	mg/kg	<0.02	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	mg/kg	<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.02	mg/kg	<0.02	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	mg/kg	<0.02	----	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	mg/kg	<0.1	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	mg/kg	<0.02	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	mg/kg	<0.02	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	mg/kg	<0.02	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.02	mg/kg	<0.02	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	mg/kg	<0.02	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	mg/kg	<0.02	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.05	mg/kg	<0.05	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.05	mg/kg	<0.05	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.05	mg/kg	<0.05	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	mg/kg	<0.05	----	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	mg/kg	<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	mg/kg	<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	mg/kg	<0.05	----	----	----	----



Analytical Results

Sub-Matrix: **PRODUCT**
 (Matrix: **PRODUCT**)

Sample ID

				TRIDENT	----	----	----	----
Sampling date / time				11-May-2023 07:10	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2315684-002	-----	-----	-----	-----
Result				Result	----	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	mg/kg	<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	mg/kg	<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	mg/kg	<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	mg/kg	<0.05	----	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	mg/kg	<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	mg/kg	<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	mg/kg	<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	mg/kg	<0.05	----	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.02	mg/kg	<0.02	----	----	----	----
^ Sum of TOP C7 - C14 as fluorine	----	0.02	mg/kg	<0.02	----	----	----	----
^ Sum of PFAS	----	0.02	mg/kg	<0.02	----	----	----	----