

LABORATORY ANALYSIS REPORT
Water Analysis Results

Report No: WQR28363-R01

Report Date: 20-04-2023

Client: Australian Food and Fibre

Sampled From: Warren Gin

Client Address: 74 Herber Street
Moree
NSW 2400

Sampled By: Client

Sampling Date: 06/04/2023

Attention: Jeff Rutter

Test Method: In accordance with the Australia and New Zealand Guidelines for Fresh and Marine Water Quality, Volume 1, The Guidelines (2000), Australian and New Zealand Environment and Conversation Council & Agriculture and Resource Management Council of Australia and New Zealand

Sample Number	Sample Location	pH (pH Units)	Total Suspended Solids (TSS) (mg/L)	Oil & Grease (mg/L)	Comments
W28363-S1	Distribution Point 4	6.64	389	<5	

*EPA Protection Licence Section 55 Protection of the Environment Operations Act 1997	
pH	6.5-8.5
TSS	50 mg/L
Oil & Greas	10 mg/L



Laboratory Scientist

Sample Analysed as Received by Ken Archer on 20th April 2023
Senior Laboratory Scientist, BSC, APP Sc, AACB, MASM

CLIENT DETAILS

Contact **Ken Archer**
 Client **ENVIROSCIENCE SOLUTIONS PTY LTD**
 Address **PO BOX 1645
 DUBBO NSW 2820**

Telephone **61 2 6884 8820**
 Facsimile **(Not specified)**
 Email **ken@enviroscience.com.au**

Project **Job 28363 - AFF; Warren Gin 7**
 Order Number **(Not specified)**
 Samples **1**

LABORATORY DETAILS

Manager **Huong Crawford**
 Laboratory **SGS Alexandria Environmental**
 Address **Unit 16, 33 Maddox St
 Alexandria NSW 2015**

Telephone **+61 2 8594 0400**
 Facsimile **+61 2 8594 0499**
 Email **au.environmental.sydney@sgs.com**

SGS Reference **SE245968 R0**
 Date Received **12 Apr 2023**
 Date Reported **19 Apr 2023**

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES



Shane MCDERMOTT
 Inorganic/Metals Chemist

Sample Number SE245968.001
Sample Matrix Water
Sample Date 06 Apr 2023
Sample Name S01 Distribution Point 4

Parameter	Units	LOR
Oil and Grease in Water Method: AN185 Tested: 17/4/2023		
Oil and Grease	mg/L	5 <5

MB blank results are compared to the Limit of Reporting

LCS and MS spike recoveries are measured as the percentage of analyte recovered from the sample compared the the amount of analyte spiked into the sample.

DUP and MSD relative percent differences are measured against their original counterpart samples according to the formula : *the absolute difference of the two results divided by the average of the two results as a percentage*. Where the DUP RPD is 'NA' , the results are less than the LOR and thus the RPD is not applicable.

Oil and Grease in Water Method: ME-(AU)-[ENV]AN185

Parameter	QC Reference	Units	LOR	MB	LCS %Recovery
Oil and Grease	LB276788	mg/L	5	<5	86%

METHOD

METHODOLOGY SUMMARY

AN185

Gravimetric Oil & Grease and Hydrocarbons: A known volume of sample is extracted using an organic solvent and the solvent layer with dissolved oils and greases is transferred to a pre-weighed beaker. The solvent is evaporated over low heating and the beaker reweighed. The concentration of oil and grease is determined by the increase in mass of the collection beaker per volume of sample extracted. O&G is suitable for lubricating oils and other high boiling point products but is not suitable for volatiles. Reference to APHA 5520 B and USEPA 1664 Revision B.. Internal Reference AN185

FOOTNOTES

IS	Insufficient sample for analysis.	LOR	Limit of Reporting
LNR	Sample listed, but not received.	↑↓	Raised or Lowered Limit of Reporting
*	NATA accreditation does not cover the performance of this service.	QFH	QC result is above the upper tolerance
**	Indicative data, theoretical holding time exceeded.	QFL	QC result is below the lower tolerance
***	Indicates that both * and ** apply.	-	The sample was not analysed for this analyte
		NVL	Not Validated

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.