

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



2334

Accredited to  
ISO/IEC 17025:2017

### Natural Resource Management, a trading division of Cawood Scientific Limited

Issue No: 051 Issue date: 28 February 2020

Braziers Lane  
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Berkshire  
RG42 6NS

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Website: www.nrm.uk.com

Testing performed by the Organisation at the locations specified below

#### Locations covered by the organisation and their relevant activities

##### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Braziers Lane Bracknell Berkshire RG42 6NS  <b>Local contact</b> Dr Kieran McNally  Tel: +44 (0)1344 898462 Fax: +44 (0)1344 890972 E-Mail: kieran.mcnally@nrm.uk.com	Analysis of soils, sludges, compost, incinerator bottom ash, food and feed	A
<b>Address</b> Brecklands Estate Downham Road Swaffham PE37 7QE  <b>Local contact</b> Dr Kieran McNally  Tel: +44 (0)1344 898462 Fax: +44 (0)1344 890972 E-Mail: kieran.mcnally@nrm.uk.com	Analysis of soils	B



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS	<u>Chemical Tests</u>	Documented In-House Methods:	
	Metals:	JAS-0510 (aqua regia hotblock extraction) and analysis by JAS-0300 (ICP-OES)	A
	Arsenic		
	Barium		
	Beryllium		
	Cadmium		
	Chromium		
	Cobalt		
Copper			
Lead			
Molybdenum			
Mercury			
Nickel			
Vanadium			
Zinc			
Selenium	JAS-0510 (aqua regia hotblock extraction) and analysis by JAS-0455 (hydride atomic fluorescence spectroscopy)		A
Ammonium Lactate – extractable Ca K Mg P	Documented in-house method SOP JAS-628 (extraction) and JAS-300 (ICP-OES analysis)		A
Dry Matter	Documented in-house method JAS-034 by gravimetry.		A
Fluoride, 1:10 acid extractable	Documented in-house method JAS-487 by acid extraction and ISE.		A
Loss on Ignition	Documented in-house methods JAS-568 (thermogravimetric analyser at 430°) by gravimetry.		A
pH	Documented in-house method JAS-630 by pH meter.		A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS (cont'd)	<u>Chemical Tests</u> (cont'd)	Documented In-House Methods:	
	pH	JAS-0398 extraction in water (1:2.5) and analysis by potentiometry (pH meter)	B
	Magnesium (Available) Potassium (Available)	JAS-0544 (ammonium nitrate extraction) and JAS-0528 (determination by ICP-OES)	B
	Organic Matter by Loss on Ignition (500°C)	JAS-0529 by Gravimetry to meet the requirements of Irish SI No. 31 of 2014 Schedule 1	B
	Phosphorous (Available)	JAS-0543 (Olsens (sodium bicarbonate) extraction) and JAS-400 (determination by flow injection analysis)	B
	Extractable Phosphate	JAS-0545 (Morgans (sodium acetate) extraction) and JAS-0546 (determination by flow injection analysis) to meet the requirements of Irish SI No. 31 of 2014 Schedule 1	B
	Potassium Magnesium	JAS-0545 (Morgans (sodium acetate) extraction) and JAS-0527 (determination by ICP-OES)	B
	pH in Sikora Buffer extract	JAS-0490 extraction in Sikora Buffer and analysis by potentiometry (pH meter)	B
Sludges and compost	Metals: Arsenic Cadmium Chromium Copper Lead Manganese Mercury Molybdenum Nickel Selenium Zinc	Documented in-house methods JAS-533 (preparation), JAS-510 (digestion) and JAS-379 (ICP-MS analysis).	A



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Incinerator Bottom Ash (IBA)	<u>Chemical Tests</u> (cont'd) Metals: Copper Lead Nickel Zinc	Documented In-House Methods:  JAS-0592 (sample preparation) JAS-0510 (aqua regia hotblock extraction) and analysis by JAS-0300 (ICP-OES) in accordance with ESA protocol UC9390.012	A
FOOD AND FEEDSTUFFS	<u>Chemical Tests</u>	Documented In-House Methods:	
Green Leafy Vegetables	Nitrate	JAS-0417 dry ice chop/cold water extraction and analysis by colorimetry	A
Feeds and Diets	Organochlorine Pesticides:  Aldrin cis-Chlordane trans-Chlordane oxy-Chlordane 2,4'-DDD 4,4'-DDD 2,4'-DDE 4,4'-DDE 2,4'-DDT 4,4'-DDT Dieldrin alpha-Endosulfan beta-Endosulfan Endosulfan Sulphate Endrin Endrin Ketone alpha-HCH beta-HCH gamma-HCH Heptachlor cis-Heptachlor Epoxide Hexachlorobenzene Toxaphene	JAS-0519 using QuEChERS extraction and determination by GC-MS	A
END			