

Our Ref: 24-43284
Your Ref: 19998

Analysis Report

Client: L & S Waste Management Ltd
Laveys Lane
Pegham Industrial Park
Fareham
Hampshire
PO15 6SD

Sample Details: 1 soil sample for analysis

Date report issued: 8 August 2024

Issue number: 1

Number of pages (including this header): 4

Accreditation

All analytes marked ^M have been analysed under the scope of our MCERTS accreditation

All analytes marked ^U have been analysed under the scope of our UKAS accreditation

All analytes marked ^m have been subcontracted and analysed under the scope of their MCERTS accreditation

All analytes marked ^u have been subcontracted and analysed under the scope of their UKAS accreditation

All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

The results shown in this test report specifically refer to the sample(s) as received unless otherwise stated.

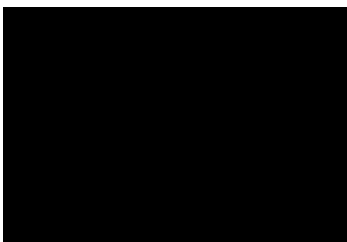
The report shall not be reproduced except in full, without the written approval of Envirochem.

All comments are beyond the scope of our accreditation.

Unless sampled by Envirochem, all sample details are supplied by the client.

Uncertainty of measurement is not accounted for in reported results.

Signed on behalf of Envirochem by an authorised signatory



Dan Dockree

Authorised Signatory





Our Ref: 24-43284
Your Ref: 19998



Client: L & S Waste Management Ltd
Site: Swinley, Pylands Lane, SO31 1BH
Sampled By: Client
Envirochem Job No. 24-43284

Submitted By: Client
Date Received: 19 July 2024
Date Completed: 8 August 2024
Date Issued: 8 August 2024

Lab Sample No. Deviating Codes Type Sample Date Sample Time				139538 AD Clay Loam Stn / / * Sample 1				
Determination	Units	Method	Detection Limit					
Asbestos identification		2.01	-	Not detected U*				
Particle size > 2mm	%	5.01	-	31.2				
water content 105C	%	6.01	1.0	14.7				
% water , air dried(<30°)	%	5.01	1.00	10.5				
arsenic	mg/kg (dry wt)	5.18, 6.08	4.0	9.9 M*				
barium	mg/kg (dry wt)	5.18, 6.08	15	77 M*				
cadmium	mg/kg (dry wt)	5.18, 6.08	0.5	0.5 M*				
cobalt	mg/kg (dry wt)	5.18, 6.08	2	7 M*				
chromium	mg/kg (dry wt)	5.18, 6.08	2	18 M*				
copper	mg/kg (dry wt)	5.18, 6.08	2	33 M*				
mercury	mg/kg (dry wt)	5.18, 6.08	0.2	< 0.2 M*				
molybdenum	mg/kg (dry wt)	5.18, 6.08	1	< 1 M*				
nickel	mg/kg (dry wt)	5.18, 6.08	3	11 M*				
lead	mg/kg (dry wt)	5.18, 6.08	40	94 M*				
antimony	mg/kg (dry wt)	5.18, 6.08	1	2				
selenium	mg/kg (dry wt)	5.18, 6.08	1	< 1 M*				
thallium	mg/kg (dry wt)	5.18, 6.08	0.5	< 0.5				
vanadium	mg/kg (dry wt)	5.18, 6.08	5	30				
zinc	mg/kg (dry wt)	5.18, 6.08	15	184 M*				
total TPH (C10 - C40)	mg/kg	6.04	50.0	< 50.0				
TPH Aliphatic (C8-C10)	mg/kg	6.04	5.00	< 5.00				
TPH Aliphatic (C10-C12)	mg/kg	6.04	5.0	< 5.0				
TPH Aliphatic (C12-C16)	mg/kg	6.04	5.0	< 5.0				
TPH Aliphatic (C16-C21)	mg/kg	6.04	5.0	< 5.0				
TPH Aliphatic (C21-C40)	mg/kg	6.04	5.0	5.8				
TPH Aromatic (C8-C10)	mg/kg	6.04	5.00	7.20				
TPH Aromatic (C10-C12)	mg/kg	6.04	5.0	< 5.0				
TPH Aromatic (C12-C16)	mg/kg	6.04	5.0	< 5.0				
TPH Aromatic (C16-C21)	mg/kg	6.04	5.0	< 5.0				
TPH Aromatic (C21-C40)	mg/kg	6.04	5.0	21.8				
total PAHs	mg/kg	6.05	2.0	5.2				
PAH Napthalene	mg/kg	6.05	0.10	< 0.10				
PAH Acenaphthylene	mg/kg	6.05	0.10	< 0.10				



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Lab Sample No. Deviating Codes Type Sample Date Sample Time				139538 AD Clay Loam Stn / / * Sample 1				
Determination	Units	Method	Detection Limit					
PAH Acenaphthene	mg/kg	6.05	0.10	< 0.10				
PAH Fluorene	mg/kg	6.05	0.10	< 0.10				
PAH Anthracene	mg/kg	6.05	0.10	0.48				
PAH Phenanthrene	mg/kg	6.05	0.10	0.34				
PAH Fluoranthene	mg/kg	6.05	0.10	0.74				
PAH Pyrene	mg/kg	6.05	0.10	0.20				
PAH Benz(a)anthracene	mg/kg	6.05	0.10	0.57				
PAH Chrysene	mg/kg	6.05	0.10	0.45				
PAH Benzo(b)fluoranthene	mg/kg	6.05	0.10	0.55				
PAH Benzo(k)fluoranthene	mg/kg	6.05	0.10	0.54				
PAH Benzo(a)pyrene	mg/kg	6.05	0.10	< 0.10				
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	0.10	1.27				
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	0.10	< 0.10				
PAH Benzo(g,h,i)perylene	mg/kg	6.05	0.10	< 0.10				

Method Summaries:-

Method Summaries (Soils/ sludges/ solid wastes)

- 5.01 - Soil sample pre-treatment, air-drying, crushing, sieving and subdividing (BS ISO 11464:2006)
- 5.02 - Solvent extraction (acetone/heptane) of soils for hydrocarbon analyses (BS ISO 16703:2004)
- 5.04 - Aqueous leaching of soil and waste samples (BS EN 12457-2:2002)
- 5.05 - Soil texture classification
- 5.06 - Aqueous extraction of dried soils/sludges/waste in a ration of 2.5:1 (BS 1377-3:1990)
- 5.18 - Digestion of solid samples in aqua-regia using hot-block for metals analysis (EPA 200.2 rev 2.8)
- 6.01 - Gravimetric determination of water content of solid samples by oven drying at 105°C. (BS 7755-3.1:1995 (ISO 11464:1993)
- 6.02 - Determination of anions by ion chromatography (EPA 300.1 1999)
- 6.03 - Determination of pH in aqueous samples and extracts by pH electrode.
- 6.04 - Determination of petroleum hydrocarbons by Gas chromatography of solvent extracts (FID)
- 6.05 - Determination of poly-aromatic- hydrocarbons by gas chromatography linked mass spectrometry (GC-MS)
- 6.06 - Determination of poly-chlorinated-biphenyls (PCBs) by gas chromatography linked mass spectrometry (GC-MS)
- 6.07 - Determination of dissolved organic carbon (DOC) and total organic carbon (TOC) by furnace combustion and infra-red detection of carbon dioxide.
- 6.08 - Determination of metals in digests and leachates by inductively coupled plasma optical emission spectrophotometry (ICP-OES)
- 6.09 - Determination of loss on ignition by gravimetry and combustion in muffle furnace
- 6.11 - Determination of BTEX by headspace GC analysis

Method Summaries (water sample)

- 5.07 - Pretreatment of water samples prior to metals analysis, including acidification
- 5.09 - Solvent extraction (acetone/heptane) of waters for hydrocarbons analyses
- 6.02 - Determination of anions by ion chromatography
- 6.03 - Determination of pH in aqueous samples and extracts by pH electrode.
- 6.04 - Determination of TPH by Gas chromatography of solvent extracts (FID)
- 6.05 - Determination of poly-aromatic- hydrocarbons by gas chromatography linked mass spectrometry (GC-MS)
- 6.06 - Determination of poly-chlorinated-biphenyls (PCBs) by gas chromatography linked mass spectrometry (GC-MS)
- 6.07 - Determination of dissolved organic carbon (DOC) by furnace combustion and infra-red detection of carbon dioxide.
- 6.08 - Determination of metals in solution by inductively coupled plasma optical emission spectrophotometry (ICP-OES)
- 6.10 - Determination of suspended solids by filtration, drying at 103°C and gravimetry.
- 6.19 - Colorimetric tests

Deviating Codes

- A - No sample date provided
- B - No sample time provided (water samples only)
- C - Incorrect sample container
- D - Not received in cooled state
- E - Insufficient sample
- F - Exceeds storage time (sampling to receipt)
- G - Exceeds storage time (receipt to analysis)
- P - No sample preservative (for bacti samples only)
- N - No sample temperature
- I - Insufficient paint sample supplied (<0.1g)

