30 April 2021

Murray Armstrong
Dandara Ltd,
Roman House,
South Hampshire Industrial Estate,
Eddystone Road,
Totton, SO40 3SA

Ref: AA111089-1

[redacted]

Dear Murray,

Windroos, Littlehampton - Verification & Validation Addendum Report

Tetra Tech (formerly WYG) have undertaken some additional verification works at Windroos, Littlehampton, referred to herein as the 'Site'. The works included five site visits to inspect the final conditions of several plots and collect shallow 'topsoil' samples for verification testing, in addition to the validation of formation and previous remedial works associated with certain areas of the site. The findings of these activities are set out within this letter report. This letter forms an addendum to the WYG Windroos, Littlehampton Remediation Validation Report, February 2020, Ref: A111089, and as such should be read in conjunction with that report. At the time of issuing the 2020 Validation Report, the development plots and managed landscaping areas had not been completed, subsequently 'topsoil' verification and some localised remediation validation could not be undertaken.

Introduction and Objectives

Tetra Tech/WYG was instructed by Murray Armstrong on behalf of Dandara to undertake 'topsoil' sampling verification works of various private garden plots and public open space areas following successive completion. The majority of soft landscaped areas have previously had made ground soils removed, with a cover layer of imported topsoil placed on the remaining natural soils beneath. In addition, as two areas (Plots 14-18 and the 'Small Public Open Space/SPOS') had not previously had the underlying natural formation inspected, these were to be validated to confirm the removal of made ground soils. These works were undertaken in broad accordance with WYG's Remediation Strategy (March 2019). The Remediation Strategy detailed the requirement for testing all imported soils.

Tetra Tech undertook the following scope of works:

- 5No. site visits to visually inspect the final conditions of selected plots and formation areas.
- Collection of 8No. 'topsoil/subsoil' samples.
- Subsequent laboratory analysis of soil samples for a range of contaminants and screening of concentrations.
- This addendum report outlining the findings of the sampling, observations and laboratory testing.

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Site Location

The site is located off Windroos Drive, Littlehampton, BN17 6LY, centred around national grid reference TQ 03599, 03455. The site is accessed directly of Windroos Drive and comprises of a new residential development of 84No. dwellings and 2No, areas of public open space.

Verification and Validation Site Visits

Sampling locations are indicated on a site layout plan presented within Annex B and photographs from each site visit are included within Annex C. 'Topsoil' samples were collected from shallow hand excavated pits, using an insulated trowel, and backfilled with arisings on completion (unless otherwise stated below). Details of encountered conditions within each site visit are included within the following sections.

It should be noted that the 'topsoil' materials encountered during the verification visits, as described and referenced within this report were imported soils sourced from Waltet Materials Ltd (delivery notes are provided in Appendix F), with some anthropogenic inclusions identified (e.g. brick), although these were noted as typically rare inclusions. Therefore, strictly speaking, the imported topsoil material may be considered to be a form of anthropogenic/made ground soil instead of an entirely natural soil or virgin topsoil.

Site Visit 1 – Plots 51 & 70

Tetra Tech undertook a site visit on the 14th September 2020 in order to verify topsoil in Plots 51 and 70.

The surface covering was flat and level exposed topsoil, which typically comprised loose dark brown slightly silty, clayey, gravelly, sand. Gravel was typically found to be fine to medium flints, with occasional chalk and rare brick fragments.

Natural strata of River Terrace Deposits were proven directly below the topsoil in both locations (Plot 51 from 0.2m bgl and Plot 70 from 0.22m bgl), and recorded as an orange brown silty, sandy, clay.

The depth and location of the topsoil samples were;

- ES3 (P51) - Plot 51 between 0.10m to 0.20m bgl
- ES4 (P70) - Plot 70 between 0.05m to 0.20m bgl

Site Visit 2 - Plot 70 (retest) and Small Public Open Space (SPOS)

Tetra Tech undertook a site visit on the 19th October 2020, in order to verify topsoil in Plot 70 (additional testing on replaced soils – see Topsoil & Subsoil Screening section for details) and verification of topsoil and validation of the formation within the Small Public Open Space (SPOS) area.

The topsoil within both areas typically comprised brown slightly clayey slightly gravelly sandy silt. Gravels comprised fine to medium flints and chalk with rare fine brick fragments.

Beneath the topsoil within the SPOS from a depth of 0.25mbgl, was a layer of subsoil, which was understood to have been placed in order to adjust site levels in this location. This material generally comprised brown gravelly clay, with gravels comprising fine to coarse brick fragments and occasional brick cobbles. Two pits were excavated within the south-west and north-east of the SPOS using a mechanical excavator (provided by the client and directed by Tetra Tech), which confirmed similar materials and conditions.

Natural strata of River Terrace Deposits were proven directly below the topsoil in Plot 70 and beneath the subsoil within the SPOS (from 0.15m bgl and 0.70m bgl), and recorded as an orange brown silty, sandy, clay. It was therefore confirmed that within the SPOS that the previous made ground soils had been removed to formation level as part of site works.

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The depth and location of the soil samples were;

- ES5 (P70) - Plot 70 between 0.00m to 0.15m bgl (topsoil)
- ES6 (SPOS) - SPOS between 0.00m to 0.25m bgl (topsoil)
- ES7 (SPOS) - SPOS between 0.25m to 0.70m bgl (subsoil)

Site Visit 3 – Plot 33

Tetra Tech undertook a site visit on the 10th November 2020 in order to verify topsoil in Plot 33.

Topsoil was encountered at surface, which typically comprised dark brown slightly gravelly clay. Gravel was typically found to be fine flints, with rare brick and chalk fragments.

Natural strata of River Terrace Deposits were proven directly below the topsoil from 0.23mbgl and recorded as light brown silty, sandy, clay with occasional fine to medium sub-angular flints gravels.

The depth and location of the topsoil sample was;

- ES8 (P33) - Plot 33 between 0.05m to 0.20m bgl

Site Visit 4 – Large Public Open Space (LPOS) (including validation of Plot 14)

Tetra Tech undertook a site visit on the 2nd March 2021 in order to verify topsoil with the Large Public Open Space (LPOS) area and validation of the formation within Plot 14 (adjoining Plots 15-18 were not ready for validation at the time).

Topsoil was encountered at surface within both LPOS and Plot 14, which typically comprised dark brown sandy slightly gravelly clay. Gravel was typically found to be fine flints, with rare brick and chalk fragments. Two pits were excavated within the north-west and centrally within the LPOS which confirmed similar materials and conditions.

Natural strata of River Terrace Deposits were proven directly below the topsoil in Plot 14 and the LPOS (from 0.27m bgl and circa 0.53-0.56m bgl respectively), and recorded as an orange brown silty, slightly gravelly clay, with gravels comprising fine to medium sub-rounded flints. It was therefore confirmed that within Plot 14 that the previous made ground soils had been removed to formation level as part of site works.

The depth and location of the topsoil samples were;

- ES9 (P14) – Plot 14 between 0.05 to 0.25m bgl (not analysed)
- ES10 (LPOS) - LPOS between 0.05m to 0.50m bgl

It should be noted that ES9 was not analysed as a further visit to validate Plots 15-18 was required and therefore it was considered that a more representative sample should be obtained during this later visit when all plots were completed.

Site Visit 5 – Plot 18 (including validation of Plots 15-18)

Tetra Tech undertook a site visit on the 31st March 2021, in order to verify topsoil in Plot 18, and validation of the formation within Plots 15-18.

Topsoil was encountered at surface within Plot 18, which typically comprised dark brown silty, slightly sandy gravelly clay. Gravel was typically found to be fine flints, with rare brick and chalk fragments. The topsoil layer thickens away from the dwellings, with an initial thickness of 0.12m bgl, increasing to a maximum of 0.61m bgl by the garages, where sampled topsoil was approximately 0.52m in thickness.

Natural strata of River Terrace Deposits were proven directly below the topsoil in plots 15 -18 and recorded as an orange brown slightly gravelly clay, with gravels comprising fine to medium sub-rounded flints. A

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trench was excavated within plots 15-18 which confirmed the previous made ground soils had been removed to formation level as part of site works.

The depth and location of the topsoil sample was;

- ES11 (P18) – Plot 18 between 0.00 to 0.52m bgl

Laboratory Analysis of Soils

Environmental testing of soil samples was scheduled by Tetra Tech (formerly WYG) and undertaken by ALS Environmental (accredited by the UK Accreditation Service (UKAS) and the EA's Monitoring Certification Scheme (MCERTS). The laboratory analysis is summarised in Table 1, and full analytical certificates are presented in Annex D.

Table 1 Summary of environmental soil testing

Sampling Visit	Analysis	No. Scheduled
1	General inorganics, 'toxic metals', beryllium, vanadium, boron, speciated polycyclic aromatic hydrocarbons (PAH), speciated total petroleum hydrocarbons (CWG TPH) including benzene, toluene, ethylbenzene and xylene. Asbestos screening.	2
2		3
3		1
4		1
5		1

Topsoil & Subsoil Screening

The measured concentrations of determinands within the soil samples have been screened against the testing criteria outlined within the WYG Remediation Strategy report (reference A111089 V1, dated March 2019). The basis for the testing criteria is that where available, C4SLs[1] have been used as the preferred choice of screening criteria. For those constituents where no C4SL has been published by the EA / DEFRA, Tetra Tech have screened soil against Suitable for Use Levels (S4ULs)[2]. Given the proposed end use of the site, with the majority of soft landscaped areas as private gardens, the human health risk assessment is based on Tier 1 Screening Values (TSV) for 'residential with plant uptake' land use. However, there are also public open space (POS) areas, and it is therefore considered that TSVs for 'POS Residential' are appropriate for these areas only.

A total of eight samples were collected from the site and submitted for chemical analysis at the laboratory. Full screening sheets are provided in Annex E.

[1] DEFRA published 'Policy Companion Document: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination' (SP1010, 2014)

[2] LQM/CIEH (3rd Edition) "Suitable for Use Levels (S4ULs) for Human Health Risk Assessment (2015)"

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Following the first sampling visit, a single exceedance was identified within sample ES4 (P70) for Lead with a concentration of 286mg/kg, which was found to be above the TSV of 200mg/kg.

This exceedance was considered to pose a potential risk to the future residential end users of Plot 70 and therefore the soils from Plot 70 and adjoining plots (Plots 68-72 inclusive) were removed and replaced with new imported topsoil material. As the original topsoil material within Plot 70 met the TSVs for 'POS residential' use following re-screening (details appended), it was considered appropriate for use within the nearby Small Public Open Space (SPOS) area and therefore soils from Plots 68-72 were included within the SPOS, which has the added advantage of aiding sustainable practices. Both the new topsoil within Plot 70 and the topsoil and subsoil within the SPOS were subsequently analysed following the second site sampling visit, with all soils meeting the chemical testing criteria ('residential land use with plant uptake' and 'POS residential', respectively). In addition, it should be noted that the analysed topsoil and subsoil materials within the SPOS also meet the chemical testing criteria for the more conservative 'residential land use with plant uptake' TSVs.

The topsoil analysed from all positions on all subsequent sampling visits meet the chemical testing criteria (residential land use with plant uptake) as outlined in the WYG remediation strategy report (including the LPOS area, for which the more conservative TSV was used).

Conclusion

Following the site visits, all inspected plots and areas were found to be covered in a layer of topsoil sufficient to meet NHBC (National House Building Council) guidance on minimum topsoil depths within gardens. Subsequent laboratory analysis and screening show soils placed on site within soft landscaped areas to meet appropriate chemical testing criteria as outlined within the WYG Remediation Strategy Report and this Addendum Report, with topsoil and subsoil deemed fit for the proposed end uses.

In addition, site inspections have confirmed the removal of all previous made ground soils down to the underlying natural formation level from the entire site (with the SPOS and Plots 14-18 previously outstanding from the WYG 2020 Validation Report). Therefore, all areas of the site are considered to be validated and no specific capping or marker layer were required, with only suitable imported soils necessary.

The findings of this addendum report align with both the WYG 2019 Remediation Strategy Report and 2020 Validation Report and confirm validation and verification of the site.

We trust this meets your requirements.

Yours Sincerely,

[redacted]

Cathy Cooke

Director

[redacted]

Christopher Colwell

Principal Consultant

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Enclosed: *Annex A: Report Conditions*
Annex B: Drawings
Annex C: Site Photos
Annex D: Laboratory Analysis Reports
Annex E: Topsoil Screening
Annex F: Topsoil Supplier Delivery Notes

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Annex A: Report Conditions

*This report is produced solely for the benefit of **Dandara Ltd** and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.*

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research.

Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYG. In time improved practices or amended legislation may necessitate a re-assessment.

The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.

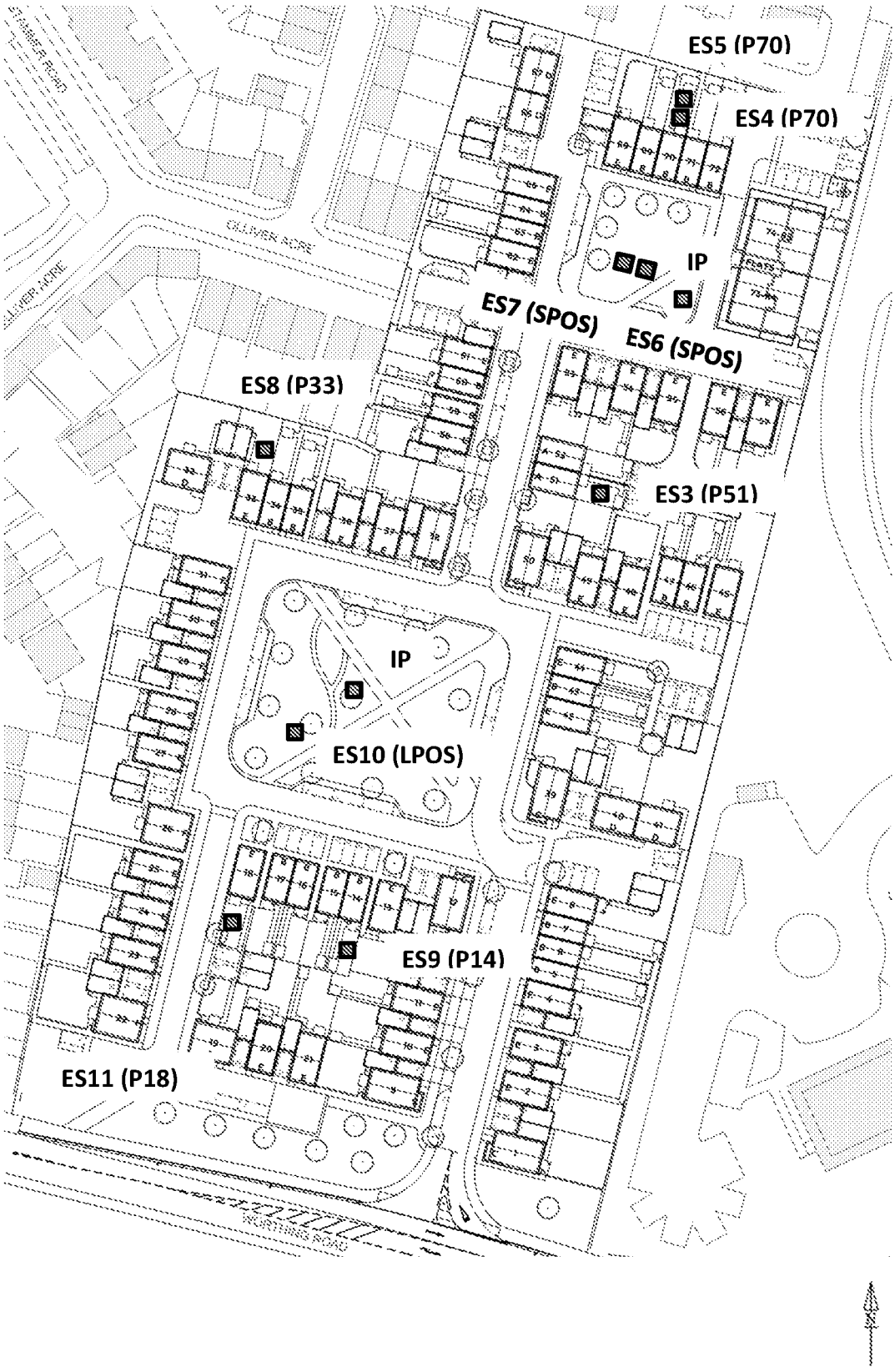
The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.

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Annex B: Drawings

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Windroos, Littlehampton – Verification Sampling Location Plan



KEY

- **Approximate sample locations**
- **Approximate additional inspection pit (IP) locations**

Annex C: Photographs

ARUN DISTRICT COUNCIL LU/150/21/DOC



Plate 1 Surface covering at Plot 51.



Plate 2 Handpit in Plot 51

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plots 51 & 70 (Visit 1)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020

ARUN DISTRICT COUNCIL LU/150/21/DOC



Plate 3 Topsoil and handpit at Plot 51



Plate 4 Surface covering at Plot 70.

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plots 51 & 70 (Visit 1)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020

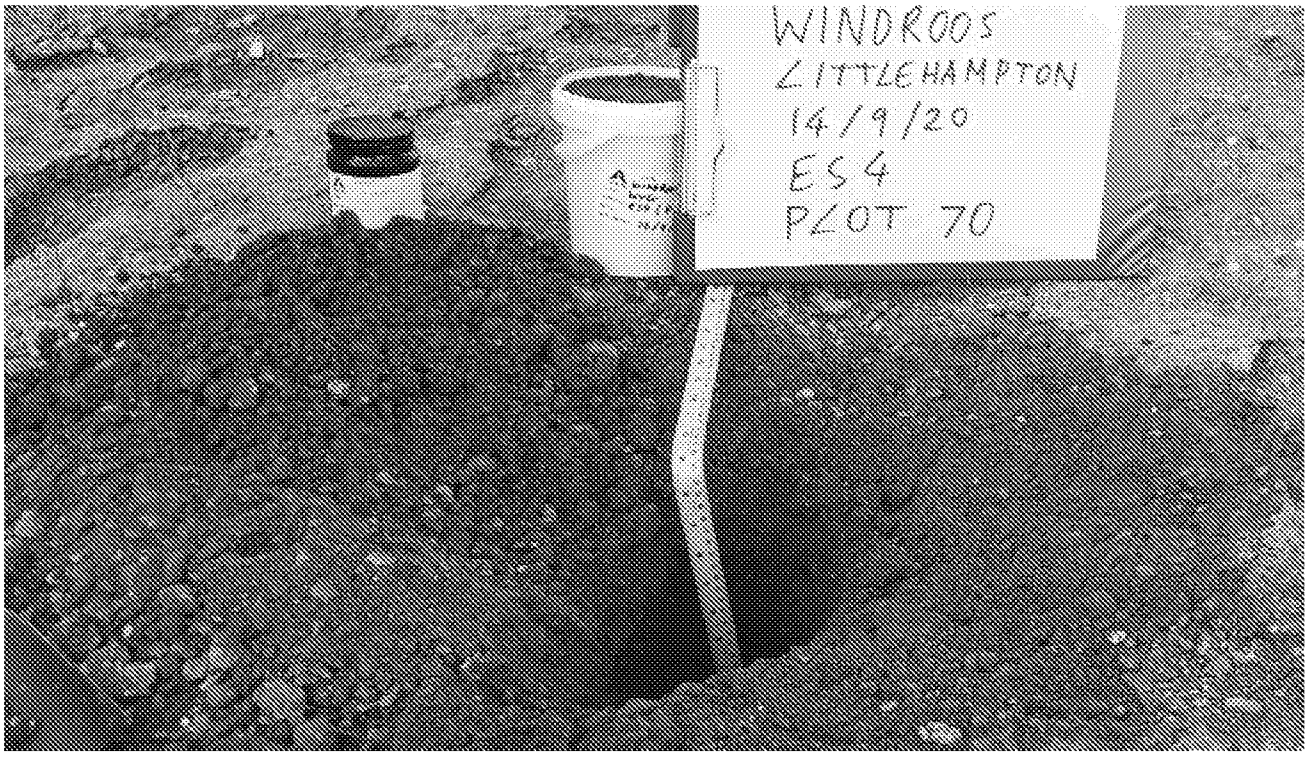


Plate 5 Topsil and handpit at Plot 70



Plate 6 Handpit at Plot 70 and adjacent plots

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plots 51 & 70 (Visit 1)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020



Plate 1 Surface covering and topsoil at SPOS.

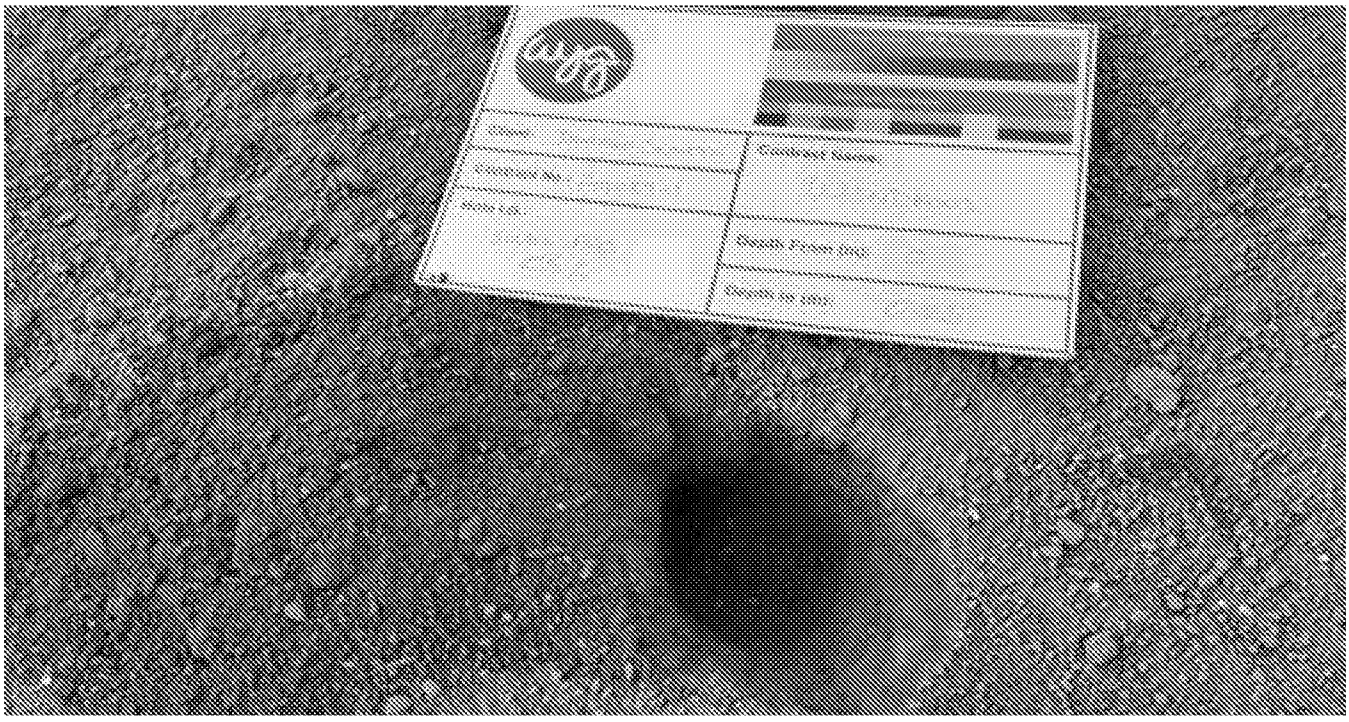


Plate 2 Handpit in SPOS

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

TETRA TECH

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton SPOS & Plot 70 (Visit 2)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020

ARUN DISTRICT COUNCIL LU/150/21/DOC



Plate 3 Mechanically excavated pit at SPOS showing subsoil beneath topsoil



Plate 4 Natrual soil at base of pit in SPOS

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton SPOS & Plot 70 (Visit 2)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020



Plate 5 Topsil at Plot 70



Plate 6 Handpit at Plot 70

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton SPOS & Plot 70 (Visit 2)

Client: Dandara

Project No.: A111089-1

Date : Sep 2020

ARUN DISTRICT COUNCIL LU/150/21/DOC



Plate 1 Surface covering/topsoil at Plate 33.

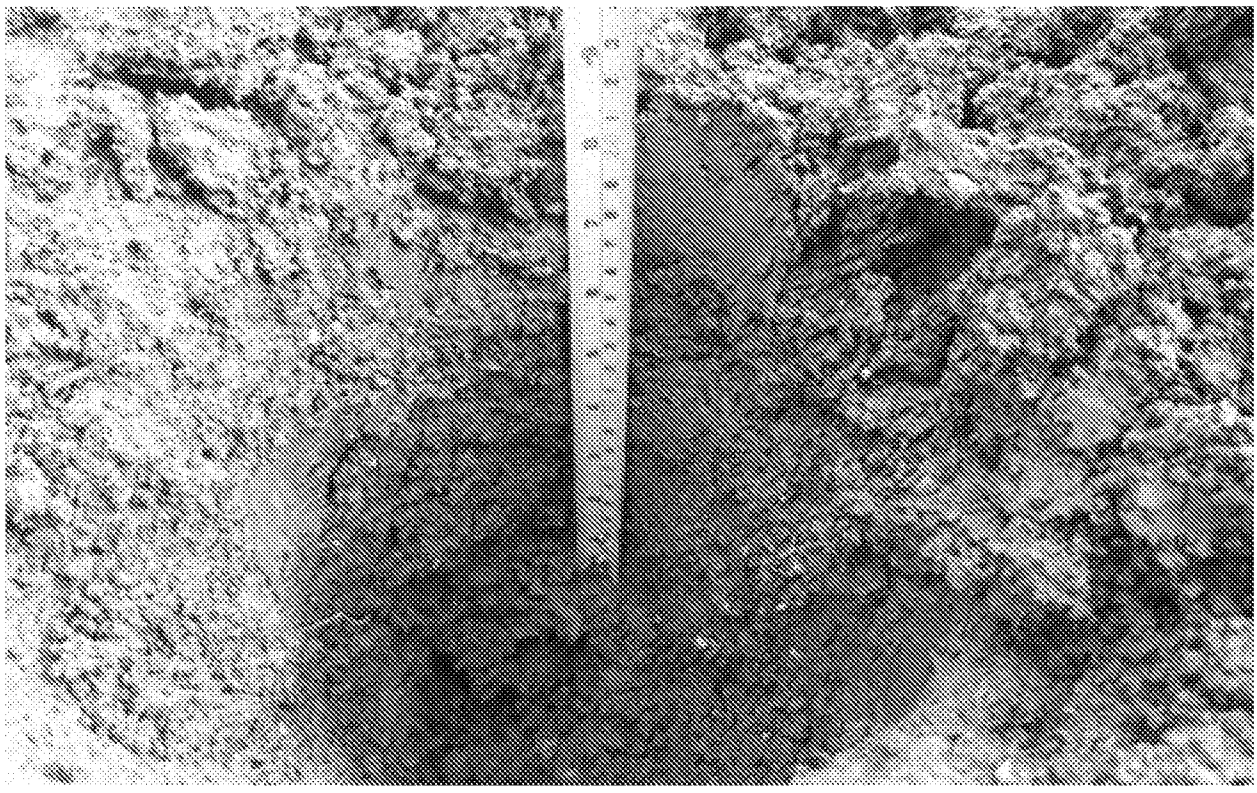


Plate 2 Handpit in Plot 33, showing topsoil with natural soils (RTDs) at base.

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

TETRA TECH

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plot 33 (Visit 3)

Client: Dandara

Project No.: A111089-1

Date : Nov 2020



Plate 1 Surface covering/topsoil at Plate 14.



Plate 2 Handpit in Plate 14, showing topsoil with natural soils (RTDs) at base.

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plot 33 (Visit 4)

Client: Dandara

Project No.: A111089-1

Date : Mar 2021

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Plate 3 Hand pit at LPOS showing topsoil with natural soils (RTDs) at base



Plate 4 Topsoil surface of LPOS

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

TETRA TECH

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plot 33 (Visit 4)

Client: Dandara

Project No.: A111089-1

Date : Mar 2021

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Plate 1 Turfing and underlyimng topsoil at Plot 14.



Plate 2 Natural soils (RTDs) and formation in foreground at Plot 17.

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plot 33 (Visit 5)

Client: Dandara

Project No.: A111089-1

Date : Mar 2021



Plate 3 Topsoil lain on natural soils (RTDs) with formation in foreground at Plot 18



Plate 4 Topsoil at Plots 15-16.

Tetra Tech
11th Floor, 1 Angel Court
London
EC2R 7HJ

[redacted]

Environmental Consultancy
Ground Technologies & Investigation

Project :
Windroos, Littlehampton Plot 33 (Visit 5)

Client: Dandara

Project No.: A111089-1

Date : Mar 2021

Annex D: Laboratory Analysis Reports

ARUN DISTRICT COUNCIL LU/150/21/DOC

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

[redacted]

WYG Geo-Environment
11th Floor
1 Angel Court
London
Middlesex
EC2R 7HJ

Attention: Christopher Colwell

CERTIFICATE OF ANALYSIS

Date of report Generation:	30 September 2020
Customer:	WYG Geo-Environment
Sample Delivery Group (SDG):	200915-45
Your Reference:	A111089
Location:	Windroos, Littlehampton
Report No:	569384

We received 2 samples on Tuesday September 15, 2020 and 2 of these samples were scheduled for analysis which was completed on Monday September 28, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

[redacted]

Sonia McWhan
Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
22825226	ES3 (P51)	ESES3	0.10 - 0.20	14/09/2020
22825239	ES4 (P70)	ESES4	0.05 - 0.20	14/09/2020

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	22825226			22825239		
			Customer Sample Reference	ES3 (P51)			ES4 (P70)		
			AGS Reference	ESES3			ESES4		
			Depth (m)	0.10 - 0.20			0.05 - 0.20		
			Container	1kg TUB with Handle	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle	250g Amber Jar (ALE210)	60g VOC (ALE215)
			Sample Type	S	S	S	S	S	S
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 2		X			X		
Chromium III	All	NDPs: 0 Tests: 2			X			X	
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 2			X			X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 2			X			X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2				X			X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 2			X			X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 2			X			X	
PAH by GCMS	All	NDPs: 0 Tests: 2			X			X	
pH	All	NDPs: 0 Tests: 2			X			X	
Sample description	All	NDPs: 0 Tests: 2			X			X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 2			X			X	
VOC MS (S)	All	NDPs: 0 Tests: 2				X			X

CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
22825226	ES3 (P51)	0.10 - 0.20	Light Brown	Sandy Loam	Stones	None
22825239	ES4 (P70)	0.05 - 0.20	Light Brown	Sandy Loam	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG: 200915-45 Client Reference: A111089 Report Number: 569384
Location: Windroos, Littlehampt Order Number: 8116/4016/20/0076 Superseded Report:

Analysis Legend	
#	ISO17025 accredited.
M	mCERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1,3+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES3 (P51)	ES4 (P70)				
			Depth (m)	0.10 - 0.20	0.05 - 0.20				
			Sample Type	Soil/Solid (S)	Soil/Solid (S)				
			Date Sampled	14/09/2020	14/09/2020				
			Sampled Time						
			Date Received	15/09/2020	15/09/2020				
			SDG Ref	200915-45	200915-45				
			Lab Sample No.(s)	22825226	22825239				
			AGS Reference	ESES3	ESES4				
Moisture Content Ratio (% of as received sample)	%	PM024		12	13				
pH	1 pH Units	TM133		8.48 M	8.39 M				
Chromium, Hexavalent	<0.6 mg/kg	TM151		<0.6 #	<0.6 #				
Cyanide, Easily liberatable (low level)	<0.5 mg/kg	TM153		<0.5	<0.5				
Chromium, Trivalent	<0.9 mg/kg	TM181		20.1	18.6				
Arsenic	<0.6 mg/kg	TM181		11.1 M	11.5 M				
Beryllium	<0.01 mg/kg	TM181		0.578 M	0.692 M				
Boron	<0.7 mg/kg	TM181		9.56 #	8.19 #				
Cadmium	<0.02 mg/kg	TM181		0.138 M	0.697 M				
Chromium	<0.9 mg/kg	TM181		20.1 M	18.6 M				
Copper	<1.4 mg/kg	TM181		20.8 M	29.7 M				
Lead	<0.7 mg/kg	TM181		89.1 M	286 M				
Mercury	<0.14 mg/kg	TM181		<0.14 M	<0.14 M				
Nickel	<0.2 mg/kg	TM181		15.4 M	29.2 M				
Selenium	<1 mg/kg	TM181		<1 #	<1 #				
Vanadium	<0.2 mg/kg	TM181		34.3 #	33 #				
Zinc	<1.9 mg/kg	TM181		92.8 M	116 M				

CERTIFICATE OF ANALYSIS

SDG: 200915-45 Client Reference: A111089 Report Number: 569384
Location: Windroos, Littlehampt Order Number: 8116/4016/20/0076 Superseded Report:

PAH by GCMS

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1,3+5@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES3 (P51)	ES4 (P70)				
			Depth (m)	0.10 - 0.20	0.05 - 0.20				
			Sample Type	Soil/Solid (S)	Soil/Solid (S)				
			Date Sampled	14/09/2020	14/09/2020				
			Sampled Time						
			Date Received	15/09/2020	15/09/2020				
			SDG Ref	200915-45	200915-45				
			Lab Sample No.(s)	22825226	22825239				
			AGS Reference	ESES3	ESES4				
Naphthalene-d8 % recovery**	%	TM218		90.3	85.1				
Acenaphthene-d10 % recovery**	%	TM218		93.9	91.5				
Phenanthrene-d10 % recovery**	%	TM218		89.4	85.7				
Chrysene-d12 % recovery**	%	TM218		81.6	75.9				
Perylene-d12 % recovery**	%	TM218		79.6	74				
Naphthalene	<9 µg/kg	TM218		<45 M	<45 M				
Acenaphthylene	<12 µg/kg	TM218		143 M	93.9 M				
Acenaphthene	<8 µg/kg	TM218		79.2 M	<40 M				
Fluorene	<10 µg/kg	TM218		118 M	<50 M				
Phenanthrene	<15 µg/kg	TM218		1150 M	383 M				
Anthracene	<16 µg/kg	TM218		363 M	151 M				
Fluoranthene	<17 µg/kg	TM218		2820 M	1350 M				
Pyrene	<15 µg/kg	TM218		2560 M	1280 M				
Benz(a)anthracene	<14 µg/kg	TM218		1580 M	868 M				
Chrysene	<10 µg/kg	TM218		1430 M	836 M				
Benzo(b)fluoranthene	<15 µg/kg	TM218		1430 M	1180 M				
Benzo(k)fluoranthene	<14 µg/kg	TM218		901 M	522 M				
Benzo(a)pyrene	<15 µg/kg	TM218		1660 M	1060 M				
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		1050 M	742 M				
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		204 M	<115 M				
Benzo(g,h,i)perylene	<24 µg/kg	TM218		1050 M	704 M				
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		16500	9170				

CERTIFICATE OF ANALYSIS

SDG: 200915-45 Client Reference: A111089 Report Number: 569384
Location: Windroos, Littlehampt Order Number: 8116/4016/20/0076 Superseded Report:

TPH CWG (S)

Results Legend
ISO17025 accredited.
M mCERTS accredited.
aq Aqueous / settled sample.
diss.filt Dissolved / filtered sample.
tot.unfilt Total / unfiltered sample.
* Subcontracted - refer to subcontractor report for accreditation status.
** % recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F) Trigger breach confirmed
1,3+5@ Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES3 (P51)	ES4 (P70)				
			Depth (m)	0.10 - 0.20	0.05 - 0.20				
			Sample Type	Soil/Solid (S)	Soil/Solid (S)				
			Date Sampled	14/09/2020	14/09/2020				
			Sampled Time						
			Date Received	15/09/2020	15/09/2020				
			SDG Ref	200915-45	200915-45				
			Lab Sample No.(s)	22825226	22825239				
			AGS Reference	ESES3	ESES4				
GRO Surrogate % recovery**	%	TM089		99.6	88.9				
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10				
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10				
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10				
Aliphatics >C10-C12	<1000 µg/kg	TM414		<1000	<1000				
Aliphatics >C12-C16	<1000 µg/kg	TM414		<1000	<1000				
Aliphatics >C16-C21	<1000 µg/kg	TM414		<1000	<1000				
Aliphatics >C21-C35	<1000 µg/kg	TM414		10000	11000				
Aliphatics >C35-C44	<1000 µg/kg	TM414		2790	5740				
Total Aliphatics >C10-C44	<5000 µg/kg	TM414		13900	18100				
Total Aliphatics & Aromatics >C10-C44	<10000 µg/kg	TM414		79400	129000				
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10				
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10				
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10				
Aromatics > EC10-EC12	<1000 µg/kg	TM414		<1000	<1000				
Aromatics > EC12-EC16	<1000 µg/kg	TM414		<1000	1280				
Aromatics > EC16-EC21	<1000 µg/kg	TM414		10800	22300				
Aromatics > EC21-EC35	<1000 µg/kg	TM414		47400	75100				
Aromatics >EC35-EC44	<1000 µg/kg	TM414		7030	12200				
Aromatics > EC40-EC44	<1000 µg/kg	TM414		2700	4390				
Total Aromatics > EC10-EC44	<5000 µg/kg	TM414		65500	111000				
Total Aliphatics & Aromatics >C5-C44	<10000 µg/kg	TM414		79400	129000				
Total Aliphatics >C5-C10	<50 µg/kg	TM089		<50	<50				
Total Aromatics >EC5-EC10	<50 µg/kg	TM089		<50	<50				
GRO >C5-C10	<20 µg/kg	TM089		<20	<20				

CERTIFICATE OF ANALYSIS

SDG: 200915-45 Client Reference: A111089 Report Number: 569384
Location: Windroos, Littlehampt Order Number: 8116/4016/20/0076 Superseded Report:

VOC MS (S)

Analysis Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1,3+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES3 (P51)	ES4 (P70)			
			Depth (m)	0.10 - 0.20	0.05 - 0.20			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	14/09/2020	14/09/2020			
			Sampled Time					
			Date Received	15/09/2020	15/09/2020			
			SDG Ref	200915-45	200915-45			
			Lab Sample No.(s)	22825226	22825239			
			AGS Reference	ESES3	ESES4			
Dibromofluoromethane**	%	TM116		118	128			
Toluene-d8**	%	TM116		99.6	96.9			
4-Bromofluorobenzene**	%	TM116		97.1	71.4			
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<10 M			
Benzene	<9 µg/kg	TM116		<90 M	<9 M			
Toluene	<7 µg/kg	TM116		<70 M	<7 M			
Ethylbenzene	<4 µg/kg	TM116		<40 M	<4 M			
p/m-Xylene	<10 µg/kg	TM116		<100 #	<10 #			
o-Xylene	<10 µg/kg	TM116		<100 M	<10 M			
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.2	<0.02			
Sum of BTEX	<40 µg/kg	TM116		<400	<40			

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&♦§@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	ES3 (P51)ESES3 0.10 - 0.20 SOLID 14/09/2020 00:00:00 15/09/2020 05:00:00 200915-45 22825226 TM048	18/09/2020	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	ES4 (P70)ESES4 0.05 - 0.20 SOLID 14/09/2020 00:00:00 15/09/2020 05:00:00 200915-45 22825239 TM048	18/09/2020	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

Table of Results - Appendix

Method No	Reference	Description
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM414	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	22825226	22825239
Customer Sample Ref.	ES3 (P51)	ES4 (P70)
AGS Ref.	ESES3	ESES4
Depth	0.10 - 0.20	0.05 - 0.20
Type	Soil/Solid (S)	Soil/Solid (S)
Asbestos ID in Solid Samples	18-Sep-2020	18-Sep-2020
Chromium III	21-Sep-2020	22-Sep-2020
Cyanide Comp/Free/Total/Thiocyanate	21-Sep-2020	21-Sep-2020
EPH CWG GC (S)	22-Sep-2020	21-Sep-2020
GRO by GC-FID (S)	18-Sep-2020	18-Sep-2020
Hexavalent Chromium (s)	18-Sep-2020	18-Sep-2020
Metals in solid samples by OES	21-Sep-2020	28-Sep-2020
PAH by GCMS	21-Sep-2020	21-Sep-2020
pH	18-Sep-2020	18-Sep-2020
Sample description	17-Sep-2020	17-Sep-2020
TPH CWG GC (S)	22-Sep-2020	21-Sep-2020
VOC MS (S)	18-Sep-2020	18-Sep-2020

ASSOCIATED AQC DATA

Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 2222
Free Cyanide	TM153	**87.92** 78.61 : 114.43
Thiocyanate	TM153	**93.59** 90.48 : 109.52
Total Cyanide	TM153	**97.9** 76.80 : 112.96

EPH CWG GC (S)

Component	Method Code	QC 2241	QC 2275
EPH >C8-C40 Raw	TM414	**99.91** 58.30 : 125.82	**91.71** 57.98 : 125.66
Total Aliphatics Raw	TM414	**108.2** 62.99 : 136.42	**99.85** 64.55 : 136.91
Total Aromatics Raw	TM414	**96.24** 58.66 : 146.54	**84.4** 55.89 : 144.43

GRO by GC-FID (S)

Component	Method Code	QC 2269
QC	TM089	**99.85** 70.75 : 114.19

Hexavalent Chromium (S)

Component	Method Code	QC 2276
Hexavalent Chromium	TM151	**106.0** 95.60 : 107.60

Metals in solid samples by OES

Component	Method Code	QC 2290	QC 2261	QC 2245	QC 2216
Aluminium	TM181	**96.46** 77.46 : 123.98	**95.58** 77.46 : 123.98	**100.88** 77.46 : 123.98	**99.12** 73.56 : 108.85
Antimony	TM181	**101.22** 87.04 : 111.16	**103.25** 87.04 : 111.16	**91.46** 87.04 : 111.16	**84.55** 76.89 : 111.24
Arsenic	TM181	**98.84** 87.34 : 110.87	**99.13** 87.34 : 110.87	**99.42** 87.34 : 110.87	**98.84** 88.53 : 111.01
Barium	TM181	**97.25** 80.73 : 115.16	**93.58** 80.73 : 115.16	**100.0** 80.73 : 115.16	**90.0** 77.67 : 105.35
Beryllium	TM181	**97.39** 89.47 : 112.97	**97.01** 89.47 : 112.97	**98.51** 89.47 : 112.97	**92.91** 85.44 : 109.61
Boron	TM181	**87.97** 76.57 : 104.15	**91.69** 76.57 : 104.15	**88.54** 76.57 : 104.15	**85.1** 73.51 : 104.66
Cadmium	TM181	**90.53** 78.94 : 102.43	**86.42** 78.94 : 102.43	**90.12** 78.94 : 102.43	**80.66** 77.67 : 104.12

Metals in solid samples by OES

		QC 2290	QC 2261	QC 2245	QC 2216
Chromium	TM181	**93.71** 77.55 : 104.47	**96.55** 77.55 : 104.47	**93.51** 77.55 : 104.47	**89.66** 86.11 : 106.21
Cobalt	TM181	**90.88** 82.95 : 107.41	**87.11** 82.95 : 107.41	**90.57** 82.95 : 107.41	**86.79** 84.60 : 104.13
Copper	TM181	**94.01** 84.36 : 106.14	**99.82** 84.36 : 106.14	**94.37** 84.36 : 106.14	**86.97** 82.40 : 105.45
Iron	TM181	**96.83** 81.43 : 115.79	**95.24** 81.43 : 115.79	**97.62** 81.43 : 115.79	**89.68** 82.95 : 110.58
Lead	TM181	**89.41** 81.95 : 107.63	**88.06** 81.95 : 107.63	**87.84** 81.95 : 107.63	**89.41** 78.24 : 104.05
Manganese	TM181	**109.17** 94.29 : 119.51	**111.39** 94.29 : 119.51	**108.61** 94.29 : 119.51	**104.44** 94.29 : 119.51
Mercury	TM181	**91.06** 82.73 : 106.36	**91.79** 82.73 : 106.36	**91.55** 82.73 : 106.36	**85.51** 83.16 : 107.81
Molybdenum	TM181	**97.12** 86.61 : 111.07	**96.71** 86.61 : 111.07	**95.47** 86.61 : 111.07	**90.53** 87.11 : 106.87
Nickel	TM181	**90.71** 79.72 : 103.80	**87.53** 79.72 : 103.80	**90.46** 79.72 : 103.80	**86.06** 80.26 : 102.28
Phosphorus	TM181	**107.07** 92.65 : 125.47	**106.06** 92.65 : 125.47	**108.69** 92.65 : 125.47	**102.83** 94.56 : 124.28
Selenium	TM181	**98.43** 88.36 : 111.25	**98.43** 88.36 : 111.25	**98.82** 88.36 : 111.25	**90.98** 82.28 : 110.48
Strontium	TM181	**90.2** 83.94 : 111.48	**91.31** 83.94 : 111.48	**89.76** 78.06 : 99.91	**82.63** 79.13 : 102.79
Thallium	TM181	**97.79** 88.60 : 116.73	**98.23** 88.60 : 116.73	**98.23** 88.60 : 116.73	**92.92** 82.94 : 111.86
Tin	TM181	**98.86** 89.77 : 112.62	**101.14** 89.77 : 112.62	**98.1** 89.77 : 112.62	**91.25** 86.72 : 110.03
Titanium	TM181	**78.63** 66.29 : 105.96	**83.97** 66.29 : 105.96	**82.44** 66.29 : 105.96	**75.65** 66.23 : 102.06
Vanadium	TM181	**96.34** 75.51 : 108.87	**98.17** 75.51 : 108.87	**92.67** 75.51 : 108.87	**89.01** 86.19 : 109.45
Zinc	TM181	**96.71** 84.02 : 111.24	**95.48** 84.02 : 111.24	**97.54** 84.02 : 111.24	**93.02** 84.68 : 113.99

PAH by GCMS

Component	Method Code	QC 2273
Acenaphthene	TM218	**99.0** 73.47 : 109.80
Acenaphthylene	TM218	**94.5** 70.00 : 130.00
Anthracene	TM218	**95.5** 68.68 : 111.89
Benz(a)anthracene	TM218	**91.0** 68.12 : 118.39
Benzo(a)pyrene	TM218	**86.5** 71.72 : 115.31
Benzo(b)fluoranthene	TM218	**85.0** 66.89 : 120.40
Benzo(ghi)perylene	TM218	**79.0** 67.82 : 118.49
Benzo(k)fluoranthene	TM218	**93.0** 73.10 : 117.03

PAH by GCMS

		QC 2273
Chrysene	TM218	**83.0** 69.58 : 115.47
Dibenzo(ah)anthracene	TM218	**77.5** 67.32 : 121.35
Fluoranthene	TM218	**96.0** 75.16 : 117.28
Fluorene	TM218	**96.5** 73.81 : 108.66
Indeno(123cd)pyrene	TM218	**77.5** 68.91 : 117.62
Naphthalene	TM218	**86.5** 72.12 : 106.18
Phenanthrene	TM218	**96.0** 69.01 : 113.72
Pyrene	TM218	**93.0** 75.68 : 119.23

pH

Component	Method Code	QC 2224
pH	TM133	**100.79** 99.74 : 102.91

VOC MS (S)

Component	Method Code	QC 2232	QC 2263
1,1,1,2-tetrachloroethane	TM116	**98.6** 86.59 : 118.97	**106.8** 79.10 : 119.66
1,1,1-Trichloroethane	TM116	**101.6** 86.26 : 117.53	**100.8** 87.51 : 115.37
1,1,2-Trichloroethane	TM116	**105.6** 75.16 : 112.70	**97.8** 75.16 : 112.70
1,1-Dichloroethane	TM116	**107.8** 83.27 : 122.16	**107.0** 86.77 : 122.11
1,2-Dichloroethane	TM116	**115.6** 89.30 : 133.10	**106.8** 90.04 : 132.28
1,4-Dichlorobenzene	TM116	**107.6** 82.59 : 123.23	**107.8** 80.81 : 125.07
2-Chlorotoluene	TM116	**106.6** 66.81 : 118.43	**95.4** 73.76 : 115.43
4-Chlorotoluene	TM116	**102.2** 65.88 : 114.76	**94.4** 72.48 : 112.82
Benzene	TM116	**107.0** 93.16 : 123.63	**100.6** 84.29 : 112.22
Carbon Disulphide	TM116	**93.0** 75.11 : 124.81	**101.4** 75.11 : 124.81
Carbontetrachloride	TM116	**103.0** 82.35 : 126.46	**97.2** 82.35 : 126.46
Chlorobenzene	TM116	**102.0** 85.07 : 118.13	**102.6** 82.88 : 122.42

VOC MS (S)

		QC 2232	QC 2263
Chloroform	TM116	**109.2** 88.13 : 122.71	**106.0** 90.35 : 120.38
Chloromethane	TM116	**102.0** 55.37 : 133.35	**101.4** 65.80 : 138.88
Cis-1,2-Dichloroethene	TM116	**110.6** 78.27 : 128.90	**100.0** 78.27 : 128.90
Dibromomethane	TM116	**94.2** 77.47 : 121.29	**86.6** 76.00 : 120.73
Dichloromethane	TM116	**116.8** 87.89 : 134.72	**113.0** 91.49 : 127.63
Ethylbenzene	TM116	**101.6** 79.92 : 110.05	**94.8** 70.95 : 113.07
Hexachlorobutadiene	TM116	**99.0** 16.78 : 153.29	**63.4** 14.55 : 147.92
Isopropylbenzene	TM116	**101.2** 69.92 : 116.39	**82.0** 52.00 : 108.19
Naphthalene	TM116	**108.4** 79.29 : 125.59	**116.2** 80.29 : 135.77
o-Xylene	TM116	**94.0** 74.57 : 112.73	**88.6** 64.92 : 98.85
p/m-Xylene	TM116	**97.8** 76.47 : 108.99	**91.5** 72.04 : 104.04
Sec-Butylbenzene	TM116	**104.4** 44.71 : 117.87	**84.8** 27.03 : 135.73
Tetrachloroethene	TM116	**101.2** 85.86 : 122.95	**104.8** 81.43 : 126.65
Toluene	TM116	**100.8** 87.82 : 116.21	**93.4** 82.44 : 103.50
Trichloroethene	TM116	**104.0** 79.80 : 112.33	**99.8** 79.80 : 112.33
Trichlorofluoromethane	TM116	**102.8** 80.52 : 132.12	**112.0** 86.68 : 126.82
Vinyl Chloride	TM116	**99.6** 68.07 : 137.84	**116.6** 69.66 : 136.55

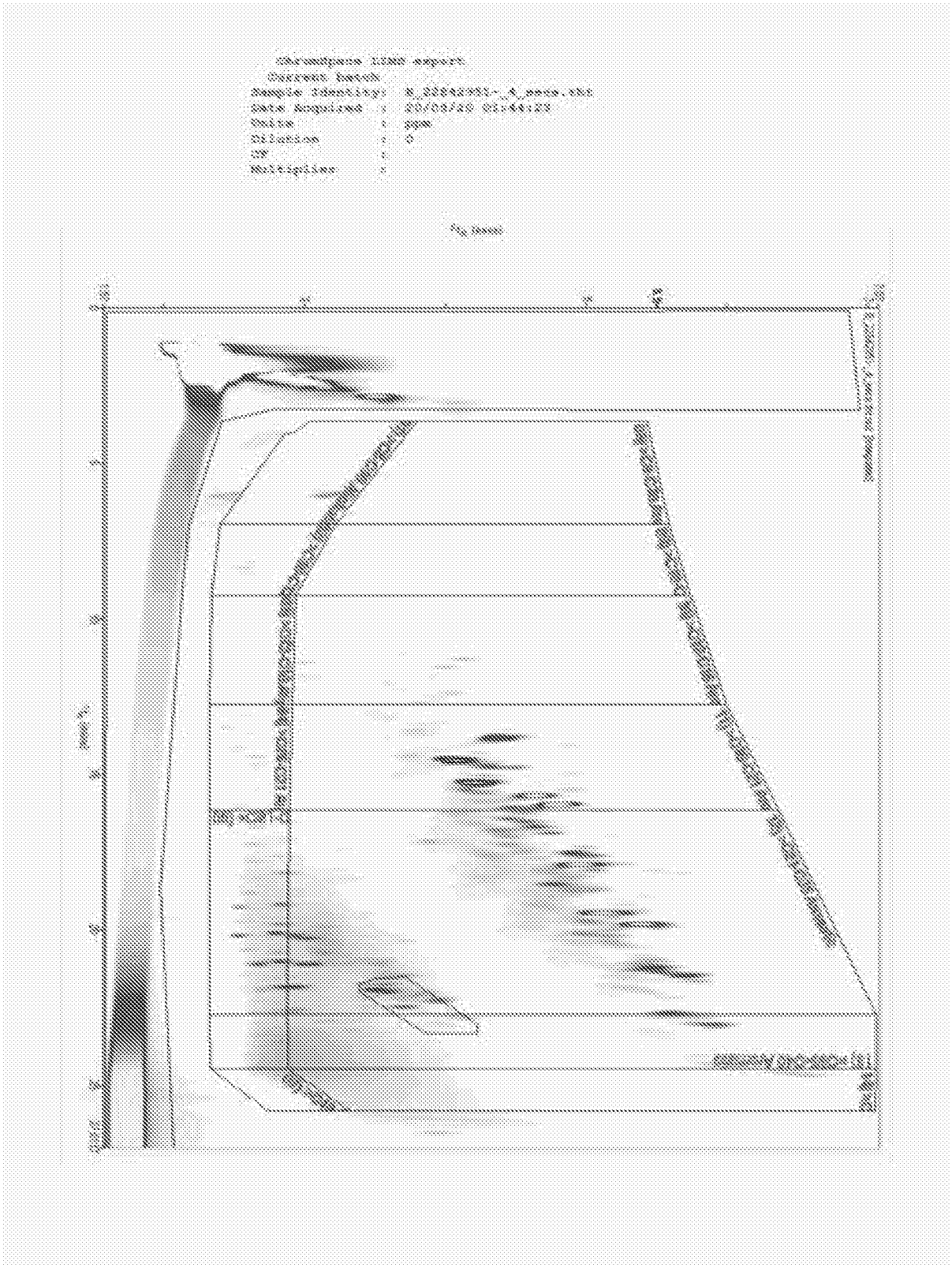
The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.
The figure detailed is the percentage recovery result for the AQC.
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.

CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 22842951 **Sample ID :** ES4 (P70) **Depth :** 0.05 - 0.20

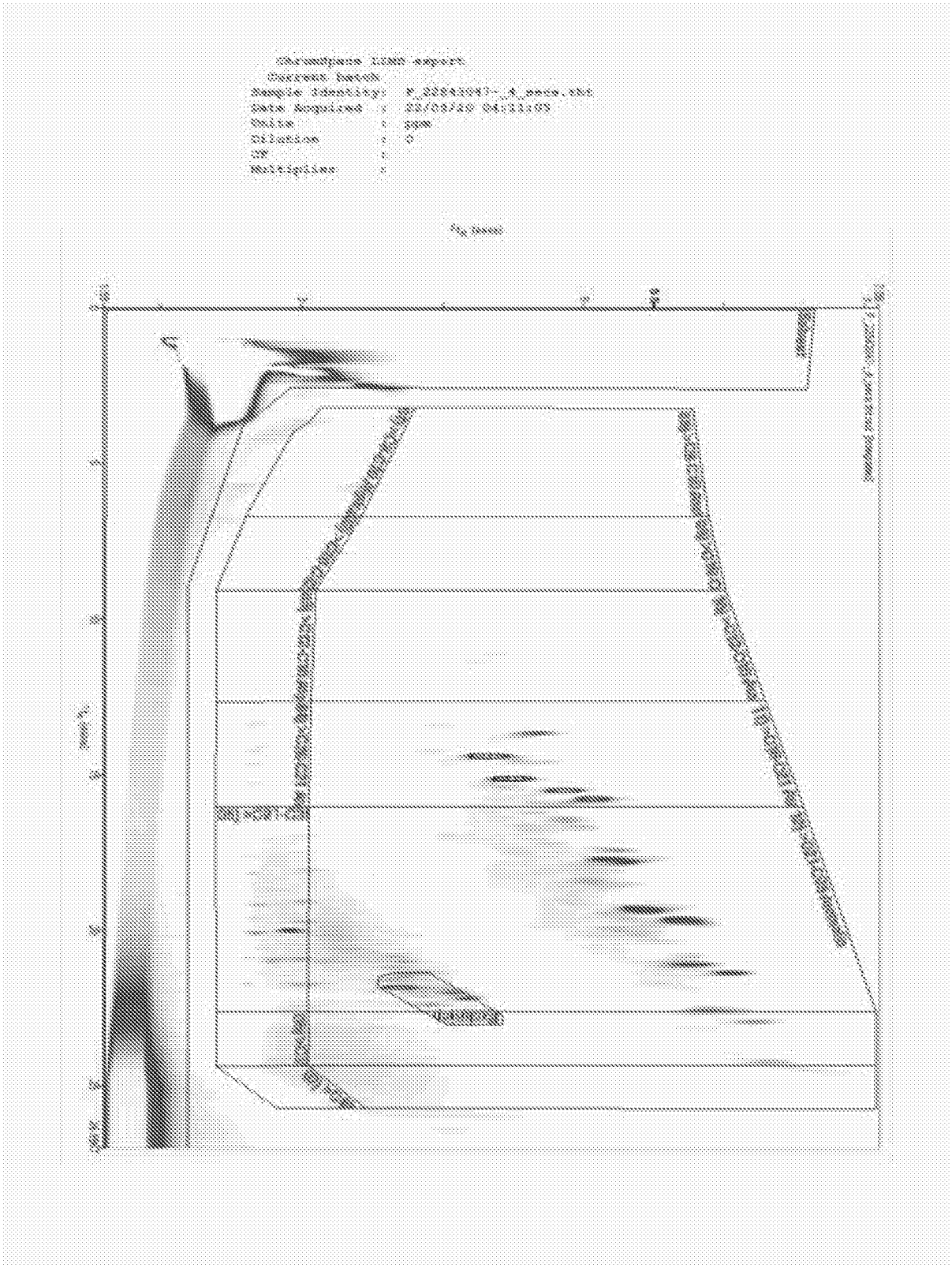


CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 22843047 **Sample ID :** ES3 (P51) **Depth :** 0.10 - 0.20

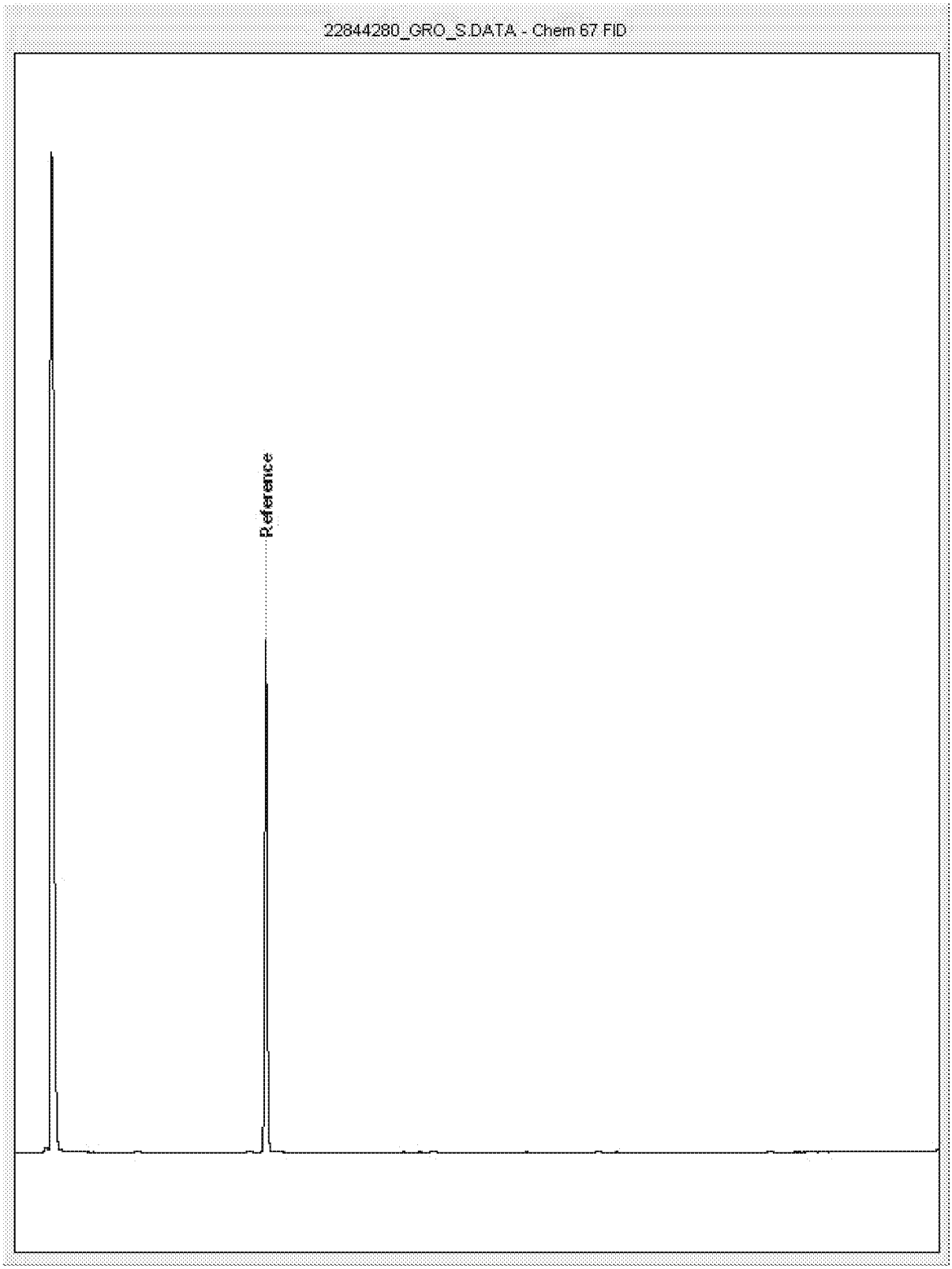


CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 22844280 **Sample ID :** ES4 (P70) **Depth :** 0.05 - 0.20

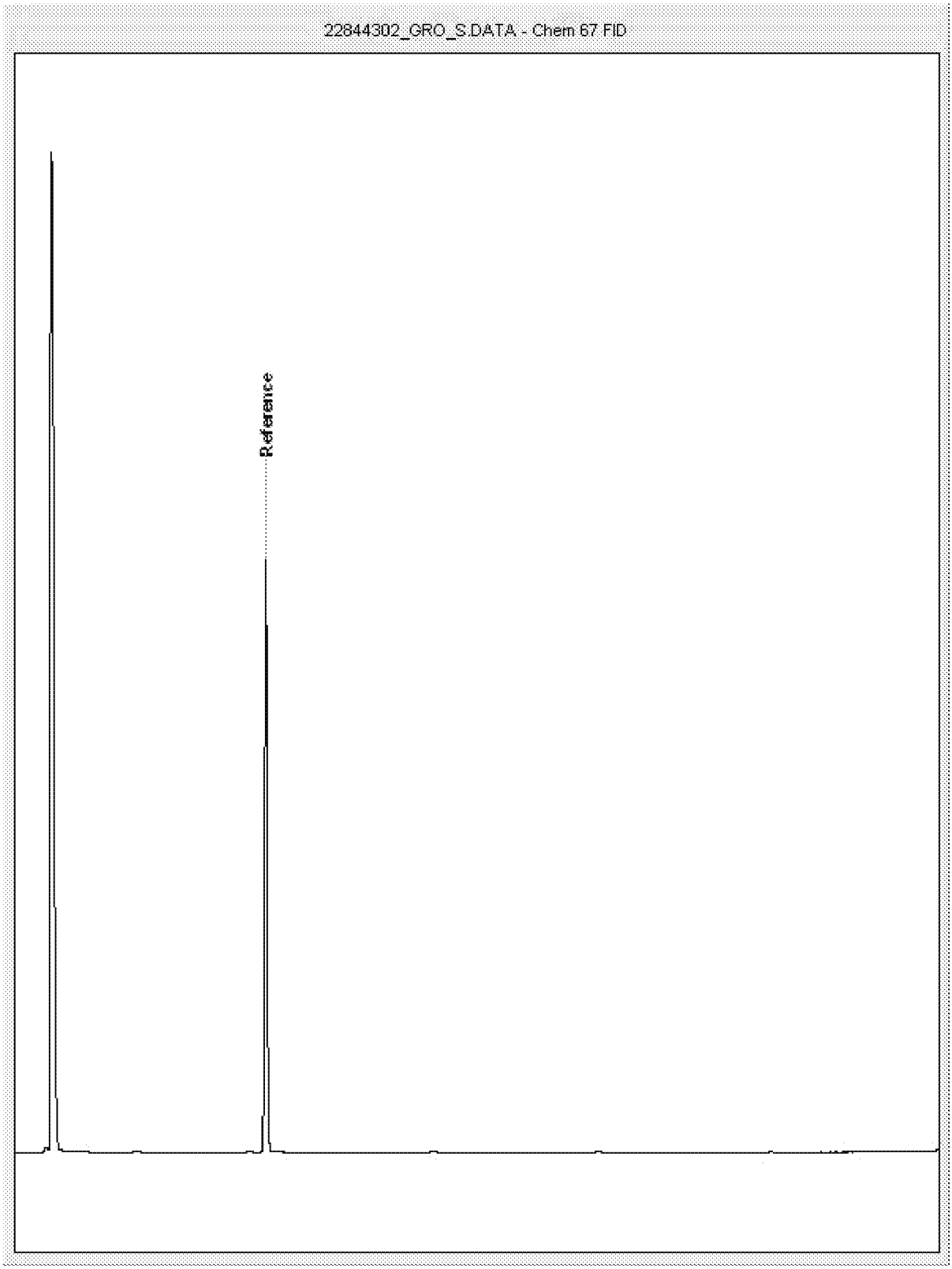


CERTIFICATE OF ANALYSIS

SDG:	200915-45	**Client Reference:**	A111089	**Report Number:**	569384
Location:	Windroos, Littlehampt	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 22844302 **Sample ID :** ES3 (P51) **Depth :** 0.10 - 0.20



ALS Environmental, Land	Issue No. 3
	Date: 10/01/2020
QF.7.5.1 Data Amendments Form	Issued and Authorised by Quality Manager

SDG	Sample Event	Sample ID	Date Amended	Amendment Reason	Analysis/Component	Authorised (Lab Manager)	Previous Value	New Value	Units	Supercedes Report
200915-45	SE 22825239	ES4 (P70)	30/09/2020 00:00	Analytical/Quality Issue	Lead	Chris Birtwistle	708	286	mg/kg	569293

Appendix General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
5	**Sampled on date not provided**
*	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

[redacted]

WYG Geo-Environment
11th Floor
1 Angel Court
London
Middlesex
EC2R 7HJ

Attention: Emily Holcroft

CERTIFICATE OF ANALYSIS

Date of report Generation:	29 October 2020
Customer:	WYG Geo-Environment
Sample Delivery Group (SDG):	201020-53
Your Reference:	A111089-1
Location:	Windroos
Report No:	573323

This report has been revised and directly supersedes 573095 in its entirety.

We received 3 samples on Tuesday October 20, 2020 and 3 of these samples were scheduled for analysis which was completed on Wednesday October 28, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

[redacted]

Sonia McWhan

Operations Manager

ALS Life Sciences Limited. ALS Life Sciences Limited registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23072136	ES5 (P70)	ES5	0.00 - 0.15	19/10/2020
23072143	ES6 (SPOS)	ES6	0.00 - 0.25	19/10/2020
23072150	ES7 (SPOS)	ES7	0.25 - 0.70	19/10/2020

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Results Legend

X **Test**

ND **No Determination Possible**

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			2307216		2307217		2307215			
Customer Sample Reference			ES5 (P70)		ES6 (SPOS)		ES7 (SPOS)			
AGS Reference			ES5		ES6		ES7			
Depth (m)			0.00 - 0.15		0.00 - 0.25		0.25 - 0.70			
Container			1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg TUB with Handle (ALE260)	250g Amber Jar (ALE210)	60g VOC (ALE215)	
Sample Type			S	S	S	S	S	S	S	S	S	
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 3	X			X			X			
Chromium III	All	NDPs: 0 Tests: 3		X			X			X		
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 3		X			X			X		
EPH CWG GC (S)	All	NDPs: 0 Tests: 3		X			X			X		
GRO by GC-FID (S)	All	NDPs: 0 Tests: 3			X			X			X	
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 3		X			X			X		
Metals in solid samples by OES	All	NDPs: 0 Tests: 3		X			X			X		
PAH by GCMS	All	NDPs: 0 Tests: 3		X			X			X		
pH	All	NDPs: 0 Tests: 3		X			X			X		
Sample description	All	NDPs: 0 Tests: 3		X			X			X		
TPH CWG GC (S)	All	NDPs: 0 Tests: 3		X			X			X		
VOC MS (S)	All	NDPs: 0 Tests: 3			X			X			X	

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Sample Descriptions

Grain Sizes

Very Fine	<0.063mm	Fine	0.063mm - 0.1mm	Medium	0.1mm - 2mm	Coarse	2mm - 10mm	Very Coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
23072136	ES5 (P70)	0.00 - 0.15	Dark Brown	Loamy Sand	Stones	Vegetation
23072143	ES6 (SPOS)	0.00 - 0.25	Dark Brown	Loamy Sand	Stones	Vegetation
23072150	ES7 (SPOS)	0.25 - 0.70	Dark Brown	Loamy Sand	Vegetation	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Customer Sample Ref.	ES5 (P70)	ES6 (SPOS)	ES7 (SPOS)			
Depth (m)	0.00 - 0.15	0.00 - 0.25	0.25 - 0.70			
Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
Date Sampled	19/10/2020	19/10/2020	19/10/2020			
Sampled Time						
Date Received	20/10/2020	20/10/2020	20/10/2020			
SDG Ref	201020-53	201020-53	201020-53			
Lab Sample No.(s)	2307/2136	2307/2143	2307/2150			
AGS Reference	ES5	ES6	ES7			

Component	LOD/Units	Method						
Moisture Content Ratio (% of as received sample)	%	PM024	16	12	15			
pH	1 pH Units	TM133	8.19 M	7.99 M	8.32 M			
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #	<0.6 #	<0.6 #			
Cyanide, Easily liberatable (low level)	<0.5 mg/kg	TM153	<0.5	<0.5	<0.5			
Chromium, Trivalent	<0.9 mg/kg	TM181	18	19.3	17.2			
Arsenic	<0.6 mg/kg	TM181	15.5 M	11.3 M	9.21 M			
Beryllium	<0.01 mg/kg	TM181	0.641 M	0.525 M	0.418 M			
Boron	<0.7 mg/kg	TM181	8.63 #	8.6 #	11.1 #			
Cadmium	<0.02 mg/kg	TM181	0.211 M	0.223 M	0.262 M			
Chromium	<0.9 mg/kg	TM181	17.2 M	19.3 M	17.2 M			
Copper	<1.4 mg/kg	TM181	28.2 M	27.5 M	17.8 M			
Lead	<0.7 mg/kg	TM181	91.1 M	68.9 M	165 M			
Mercury	<0.14 mg/kg	TM181	<0.14 M	<0.14 M	<0.14 M			
Nickel	<0.2 mg/kg	TM181	16.5 M	19.8 M	16.8 M			
Selenium	<1 mg/kg	TM181	<1 #	<1 #	<1 #			
Vanadium	<0.2 mg/kg	TM181	30 #	32 #	28.7 #			
Zinc	<1.9 mg/kg	TM181	122 M	111 M	106 M			

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES5 (P70)	ES6 (SPOS)	ES7 (SPOS)			
			Depth (m)	0.00 - 0.15	0.00 - 0.25	0.25 - 0.70			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	19/10/2020	19/10/2020	19/10/2020			
			Sampled Time						
			Date Received	20/10/2020	20/10/2020	20/10/2020			
			SDG Ref	201020-53	201020-53	201020-53			
			Lab Sample No.(s)	2307/2136	2307/2143	2307/2150			
			AGS Reference	ES5	ES6	ES7			
Naphthalene-d8 % recovery**	%	TM218		92.6	80.8	92.7			
Acenaphthene-d10 % recovery**	%	TM218		80.2	80	85.3			
Phenanthrene-d10 % recovery**	%	TM218		82.5	82.6	93.2			
Chrysene-d12 % recovery**	%	TM218		88.7	89.8	94.8			
Perylene-d12 % recovery**	%	TM218		77.5	81.3	87.8			
Naphthalene	<9 µg/kg	TM218		<45 M	<45 M	<45 M			
Acenaphthylene	<12 µg/kg	TM218		157 M	70.7 M	<60 M			
Acenaphthene	<8 µg/kg	TM218		<40 M	<40 M	<40 M			
Fluorene	<10 µg/kg	TM218		<50 M	<50 M	<50 M			
Phenanthrene	<15 µg/kg	TM218		773 M	441 M	204 M			
Anthracene	<16 µg/kg	TM218		398 M	123 M	<80 M			
Fluoranthene	<17 µg/kg	TM218		3110 M	1590 M	723 M			
Pyrene	<15 µg/kg	TM218		2900 M	1450 M	660 M			
Benz(a)anthracene	<14 µg/kg	TM218		1340 M	823 M	396 M			
Chrysene	<10 µg/kg	TM218		1390 M	788 M	351 M			
Benzo(b)fluoranthene	<15 µg/kg	TM218		1350 M	849 M	646 M			
Benzo(k)fluoranthene	<14 µg/kg	TM218		667 M	447 M	249 M			
Benzo(a)pyrene	<15 µg/kg	TM218		1380 M	975 M	544 M			
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218		867 M	793 M	492 M			
Dibenzo(a,h)anthracene	<23 µg/kg	TM218		144 M	151 M	<115 M			
Benzo(g,h,i)perylene	<24 µg/kg	TM218		981 M	767 M	508 M			
PAH, Total Detected USEPA 16	<118 µg/kg	TM218		15400	9270	4770			

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES5 (P70)	ES6 (SPOS)	ES7 (SPOS)			
			Depth (m)	0.00 - 0.15	0.00 - 0.25	0.25 - 0.70			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	19/10/2020	19/10/2020	19/10/2020			
			Sampled Time						
			Date Received	20/10/2020	20/10/2020	20/10/2020			
			SDG Ref	201020-53	201020-53	201020-53			
			Lab Sample No.(s)	2307/2136	2307/2143	2307/2150			
			AGS Reference	ES5	ES6	ES7			
GRO Surrogate % recovery**	%	TM089		88.8	80.8	118			
Aliphatics >C5-C6	<10 µg/kg	TM089		<10	<10	17.6			
Aliphatics >C6-C8	<10 µg/kg	TM089		<10	<10	33.9			
Aliphatics >C8-C10	<10 µg/kg	TM089		<10	<10	39.8			
Aliphatics >C10-C12	<1000 µg/kg	TM414		<1000	<1000	<1000			
Aliphatics >C12-C16	<1000 µg/kg	TM414		<1000	<1000	<1000			
Aliphatics >C16-C21	<1000 µg/kg	TM414		2150	1060	1530			
Aliphatics >C21-C35	<1000 µg/kg	TM414		22500	20700	15600			
Aliphatics >C35-C44	<1000 µg/kg	TM414		3220	3300	3180			
Total Aliphatics >C10-C44	<5000 µg/kg	TM414		28100	25100	20300			
Total Aliphatics & Aromatics >C10-C44	<10000 µg/kg	TM414		67100	70000	90700			
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10	<10	<10			
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10	<10	26.9			
Aromatics > EC10-EC12	<1000 µg/kg	TM414		<1000	<1000	<1000			
Aromatics > EC12-EC16	<1000 µg/kg	TM414		<1000	<1000	<1000			
Aromatics > EC16-EC21	<1000 µg/kg	TM414		3670	5310	3300			
Aromatics > EC21-EC35	<1000 µg/kg	TM414		29600	33100	54200			
Aromatics >EC35-EC44	<1000 µg/kg	TM414		5560	6330	12600			
Aromatics > EC40-EC44	<1000 µg/kg	TM414		<1000	1610	6030			
Total Aromatics > EC10-EC44	<5000 µg/kg	TM414		39100	45000	70400			
Total Aliphatics & Aromatics >C5-C44	<10000 µg/kg	TM414		67100	70000	90800			
Total Aliphatics >C5-C10	<50 µg/kg	TM089		<50	<50	91.3			
Total Aromatics >EC5-EC10	<50 µg/kg	TM089		<50	<50	<50			
GRO >C5-C10	<20 µg/kg	TM089		<20	<20	91.3			

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

VOC MS (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4[5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES5 (P70)	ES6 (SPOS)	ES7 (SPOS)			
			Depth (m)	0.00 - 0.15	0.00 - 0.25	0.25 - 0.70			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	19/10/2020	19/10/2020	19/10/2020			
			Sampled Time						
			Date Received	20/10/2020	20/10/2020	20/10/2020			
			SDG Ref	201020-53	201020-53	201020-53			
			Lab Sample No.(s)	2307/2136	2307/2143	2307/2150			
			AGS Reference	ES5	ES6	ES7			
Dibromofluoromethane**	%	TM116		114	111	113			
Toluene-d8**	%	TM116		97	96.9	90.5			
4-Bromofluorobenzene**	%	TM116		86.9	87.6	70.6			
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<100 M	<100 M	<10 M			
Benzene	<9 µg/kg	TM116		<90 M	<90 M	<9 M			
Toluene	<7 µg/kg	TM116		<70 M	<70 M	<7 M			
Ethylbenzene	<4 µg/kg	TM116		<40 M	<40 M	<4 M			
p/m-Xylene	<10 µg/kg	TM116		<100 #	<100 #	<10 #			
o-Xylene	<10 µg/kg	TM116		<100 M	<100 M	<10 M			
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.2	<0.2	<0.02			
Sum of BTEX	<40 µg/kg	TM116		<400	<400	<40			

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&+$@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	ES5 (P70)ES5 0.00 - 0.15 SOLID 19/10/2020 00:00:00 20/10/2020 05:00:00 201020-53 23072136 TM048	27/10/2020	Marcin Magdziarek	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	ES6 (SPOS)ES6 0.00 - 0.25 SOLID 19/10/2020 00:00:00 20/10/2020 05:00:00 201020-53 23072143 TM048	26/10/2020	Paul Poynton	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Received SDG Original Sample Method Number	ES7 (SPOS)ES7 0.25 - 0.70 SOLID 19/10/2020 00:00:00 20/10/2020 05:00:00 201020-53 23072150 TM048	28/10/2020	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Table of Results - Appendix

Method No	Reference	Description
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM414	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
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Test Completion Dates

Lab Sample No(s)	23072136	23072143	23072150
Customer Sample Ref.	ES5 (F70)	ES6 (SPDS)	ES7 (SPDS)
AGS Ref.	ES5	ES6	ES7
Depth	0.00 - 0.15	0.00 - 0.25	0.25 - 0.70
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Asbestos ID in Solid Samples	27-Oct-2020	26-Oct-2020	28-Oct-2020
Chromium III	27-Oct-2020	27-Oct-2020	28-Oct-2020
Cyanide Comp/Free/Total/Thiocyanate	26-Oct-2020	26-Oct-2020	26-Oct-2020
EPH CWG GC (S)	27-Oct-2020	27-Oct-2020	27-Oct-2020
GRO by GC-FID (S)	23-Oct-2020	23-Oct-2020	24-Oct-2020
Hexavalent Chromium (s)	27-Oct-2020	27-Oct-2020	28-Oct-2020
Metals in solid samples by OES	27-Oct-2020	27-Oct-2020	27-Oct-2020
PAH by GCMS	25-Oct-2020	25-Oct-2020	24-Oct-2020
pH	27-Oct-2020	27-Oct-2020	27-Oct-2020
Sample description	22-Oct-2020	22-Oct-2020	22-Oct-2020
TPH CWG GC (S)	27-Oct-2020	27-Oct-2020	27-Oct-2020
VOC MS (S)	23-Oct-2020	23-Oct-2020	23-Oct-2020

ASSOCIATED AQC DATA

Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 2353
Free Cyanide	TM153	**91.49** 78.61 : 114.43
Thiocyanate	TM153	**101.28** 90.48 : 109.52
Total Cyanide	TM153	**96.5** 76.80 : 112.96

GRO by GC-FID (S)

Component	Method Code	QC 2340	QC 2378
QC	TM089	**90.33** 70.34 : 111.95	**112.01** 70.75 : 114.19

Hexavalent Chromium (S)

Component	Method Code	QC 2344	QC 2301
Hexavalent Chromium	TM151	**102.0** 95.60 : 107.60	**106.0** 92.00 : 111.20

Metals in solid samples by OES

Component	Method Code	QC 2305	QC 2379	QC 2358
Aluminium	TM181	**111.5** 73.56 : 108.85	**99.12** 73.56 : 108.85	**94.69** 77.46 : 123.98
Antimony	TM181	**102.44** 76.89 : 111.24	**103.25** 76.89 : 111.24	**98.78** 87.04 : 111.16
Arsenic	TM181	**106.4** 88.53 : 111.01	**106.1** 88.53 : 111.01	**96.8** 87.34 : 110.87
Barium	TM181	**104.59** 77.67 : 105.35	**100.0** 77.67 : 105.35	**92.66** 80.73 : 115.16
Beryllium	TM181	**108.96** 85.44 : 109.61	**110.82** 85.44 : 109.61	**97.01** 89.47 : 112.97
Boron	TM181	**104.87** 73.51 : 104.66	**95.7** 73.51 : 104.66	**84.81** 76.57 : 104.15
Cadmium	TM181	**95.88** 77.67 : 104.12	**93.83** 77.67 : 104.12	**86.01** 78.94 : 102.43
Chromium	TM181	**101.22** 86.11 : 106.21	**100.81** 86.11 : 106.21	**90.87** 77.55 : 104.47
Cobalt	TM181	**98.74** 84.60 : 104.13	**98.11** 84.60 : 104.13	**89.31** 82.95 : 107.41
Copper	TM181	**97.18** 82.40 : 105.45	**96.83** 82.40 : 105.45	**92.08** 84.36 : 106.14
Iron	TM181	**106.35** 82.95 : 110.58	**99.21** 82.95 : 110.58	**90.48** 81.43 : 115.79
Lead	TM181	**99.32** 78.24 : 104.05	**97.75** 78.24 : 104.05	**88.06** 81.95 : 107.63

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Metals in solid samples by OES

		QC 2305	QC 2379	QC 2358
Manganese	TM181	**118.89** 94.29 : 119.51	**116.67** 94.29 : 119.51	**108.33** 94.29 : 119.51
Mercury	TM181	**100.24** 83.16 : 107.81	**100.0** 83.16 : 107.81	**89.37** 82.73 : 106.36
Molybdenum	TM181	**107.82** 87.11 : 106.87	**99.18** 87.11 : 106.87	**93.83** 86.61 : 111.07
Nickel	TM181	**98.04** 80.26 : 102.28	**97.31** 80.26 : 102.28	**89.49** 79.72 : 103.80
Phosphorus	TM181	**125.05** 94.56 : 124.28	**123.84** 94.56 : 124.28	**112.93** 92.65 : 125.47
Selenium	TM181	**104.31** 82.28 : 110.48	**103.92** 82.28 : 110.48	**93.73** 88.36 : 111.25
Strontium	TM181	**99.11** 79.13 : 102.79	**95.32** 79.13 : 102.79	**85.75** 78.06 : 99.91
Thallium	TM181	**104.87** 82.94 : 111.86	**103.98** 82.94 : 111.86	**96.02** 88.60 : 116.73
Tin	TM181	**112.93** 86.72 : 110.03	**110.27** 86.72 : 110.03	**96.96** 89.77 : 112.62
Titanium	TM181	**100.0** 66.23 : 102.06	**90.08** 66.23 : 102.06	**79.39** 66.29 : 105.96
Vanadium	TM181	**110.62** 86.19 : 109.45	**103.66** 86.19 : 109.45	**93.77** 75.51 : 108.87
Zinc	TM181	**106.78** 84.68 : 113.99	**104.11** 84.68 : 113.99	**94.46** 84.02 : 111.24

PAH by GCMS

Component	Method Code	QC 2387	QC 2349	QC 2305
Acenaphthene	TM218	**84.5** 73.47 : 109.80	**91.5** 80.97 : 105.99	**91.5** 80.97 : 105.99
Acenaphthylene	TM218	**83.5** 70.00 : 130.00	**89.5** 74.76 : 107.36	**88.5** 74.76 : 107.36
Anthracene	TM218	**85.5** 68.68 : 111.89	**88.5** 73.04 : 106.97	**90.5** 73.04 : 106.97
Benz(a)anthracene	TM218	**88.5** 68.12 : 118.39	**93.0** 68.79 : 119.64	**90.0** 68.79 : 119.64
Benzo(a)pyrene	TM218	**91.5** 71.72 : 115.31	**90.0** 66.17 : 117.52	**87.0** 66.17 : 117.52
Benzo(b)fluoranthene	TM218	**93.0** 66.89 : 120.40	**90.5** 66.40 : 118.34	**84.0** 66.40 : 118.34
Benzo(ghi)perylene	TM218	**92.5** 67.82 : 118.49	**92.0** 67.68 : 112.07	**83.5** 67.68 : 112.07
Benzo(k)fluoranthene	TM218	**93.5** 73.10 : 117.03	**86.5** 72.84 : 114.66	**88.5** 72.84 : 114.66
Chrysene	TM218	**88.5** 69.58 : 115.47	**91.0** 68.39 : 115.56	**87.0** 68.39 : 115.56
Dibenzo(ah)anthracene	TM218	**92.0** 67.32 : 121.35	**88.0** 69.03 : 110.45	**85.0** 69.03 : 110.45
Fluoranthene	TM218	**90.5** 75.16 : 117.28	**98.0** 69.37 : 117.19	**89.5** 69.37 : 117.19
Fluorene	TM218	**88.0** 73.81 : 108.66	**93.5** 75.38 : 105.98	**94.5** 75.38 : 105.98
Indeno(123cd)pyrene	TM218	**89.0** 68.91 : 117.62	**89.5** 65.91 : 113.61	**87.0** 65.91 : 113.61

CERTIFICATE OF ANALYSIS

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Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

PAH by GCMS

		QC 2387	QC 2349	QC 2305
Naphthalene	TM218	**81.5** 72.12 : 106.18	**86.0** 71.40 : 105.87	**84.5** 71.40 : 105.87
Phenanthrene	TM218	**87.5** 69.01 : 113.72	**94.0** 74.04 : 109.30	**90.0** 74.04 : 109.30
Pyrene	TM218	**89.5** 75.68 : 119.23	**96.5** 69.68 : 115.27	**90.0** 69.68 : 115.27

pH

Component	Method Code	QC 2331	QC 2373
pH	TM133	**100.66** 98.47 : 102.33	**100.26** 99.74 : 102.91

VOC MS (S)

Component	Method Code	QC 2391	QC 2385
1,1,1,2-tetrachloroethane	TM116	**95.6** 79.10 : 119.66	**99.4** 79.10 : 119.66
1,1,1-Trichloroethane	TM116	**98.6** 87.51 : 115.37	**102.2** 87.51 : 115.37
1,1,2-Trichloroethane	TM116	**94.2** 81.29 : 113.79	**95.8** 81.29 : 113.79
1,1-Dichloroethane	TM116	**103.8** 86.77 : 122.11	**106.0** 86.77 : 122.11
1,2-Dichloroethane	TM116	**104.8** 90.04 : 132.28	**113.4** 90.04 : 132.28
1,4-Dichlorobenzene	TM116	**93.4** 80.81 : 125.07	**99.0** 80.81 : 125.07
2-Chlorotoluene	TM116	**86.0** 73.13 : 114.13	**85.0** 73.13 : 114.13
4-Chlorotoluene	TM116	**84.6** 72.48 : 112.82	**83.0** 72.48 : 112.82
Benzene	TM116	**95.4** 84.29 : 112.22	**96.4** 84.29 : 112.22
Carbon Disulphide	TM116	**106.6** 75.11 : 124.81	**96.8** 75.11 : 124.81
Carbontetrachloride	TM116	**95.6** 82.35 : 126.46	**101.0** 82.35 : 126.46
Chlorobenzene	TM116	**93.0** 82.88 : 122.42	**96.8** 82.88 : 122.42
Chloroform	TM116	**104.8** 90.35 : 120.38	**108.6** 90.35 : 120.38
Chloromethane	TM116	**120.8** 65.80 : 138.88	**94.2** 65.80 : 138.88
Cis-1,2-Dichloroethene	TM116	**98.4** 78.27 : 128.90	**99.0** 78.27 : 128.90
Dibromomethane	TM116	**90.8** 76.00 : 120.73	**98.2** 76.00 : 120.73
Dichloromethane	TM116	**106.0** 92.27 : 134.36	**111.0** 92.27 : 134.36

		QC 2391	QC 2385
Ethylbenzene	TM116	**84.4** 70.95 : 113.07	**87.0** 70.95 : 113.07
Hexachlorobutadiene	TM116	**52.0** 14.55 : 147.92	**51.0** 14.55 : 147.92
Isopropylbenzene	TM116	**72.4** 52.00 : 108.19	**69.2** 52.00 : 108.19
Naphthalene	TM116	**93.6** 80.29 : 135.77	**99.0** 80.29 : 135.77
o-Xylene	TM116	**79.4** 64.92 : 98.85	**79.2** 64.92 : 98.85
p/m-Xylene	TM116	**82.5** 72.04 : 104.04	**82.3** 72.04 : 104.04
Sec-Butylbenzene	TM116	**61.6** 27.03 : 135.73	**60.0** 27.03 : 135.73
Tetrachloroethene	TM116	**92.8** 81.43 : 126.65	**97.6** 81.43 : 126.65
Toluene	TM116	**89.4** 82.44 : 103.50	**92.0** 82.44 : 103.50
Trichloroethene	TM116	**95.2** 79.80 : 112.33	**96.2** 79.80 : 112.33
Trichlorofluoromethane	TM116	**111.2** 86.68 : 126.82	**108.8** 86.68 : 126.82
Vinyl Chloride	TM116	**119.0** 69.66 : 136.55	**98.0** 69.66 : 136.55

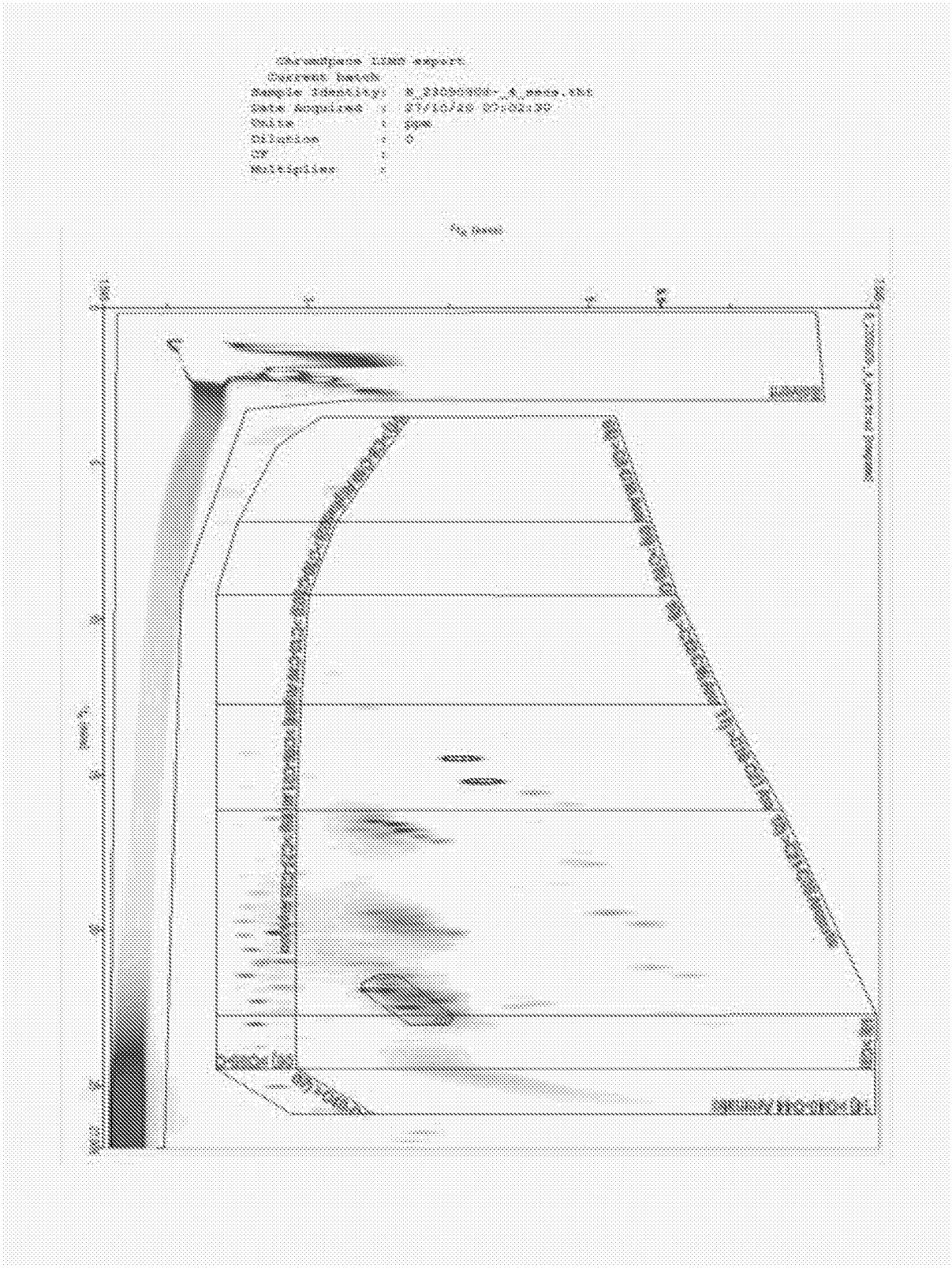
The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.
The figure detailed is the percentage recovery result for the AQC.
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.

CERTIFICATE OF ANALYSIS

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Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 23090808 **Depth :** 0.25 - 0.70
Sample ID : ES7 (SPOS)

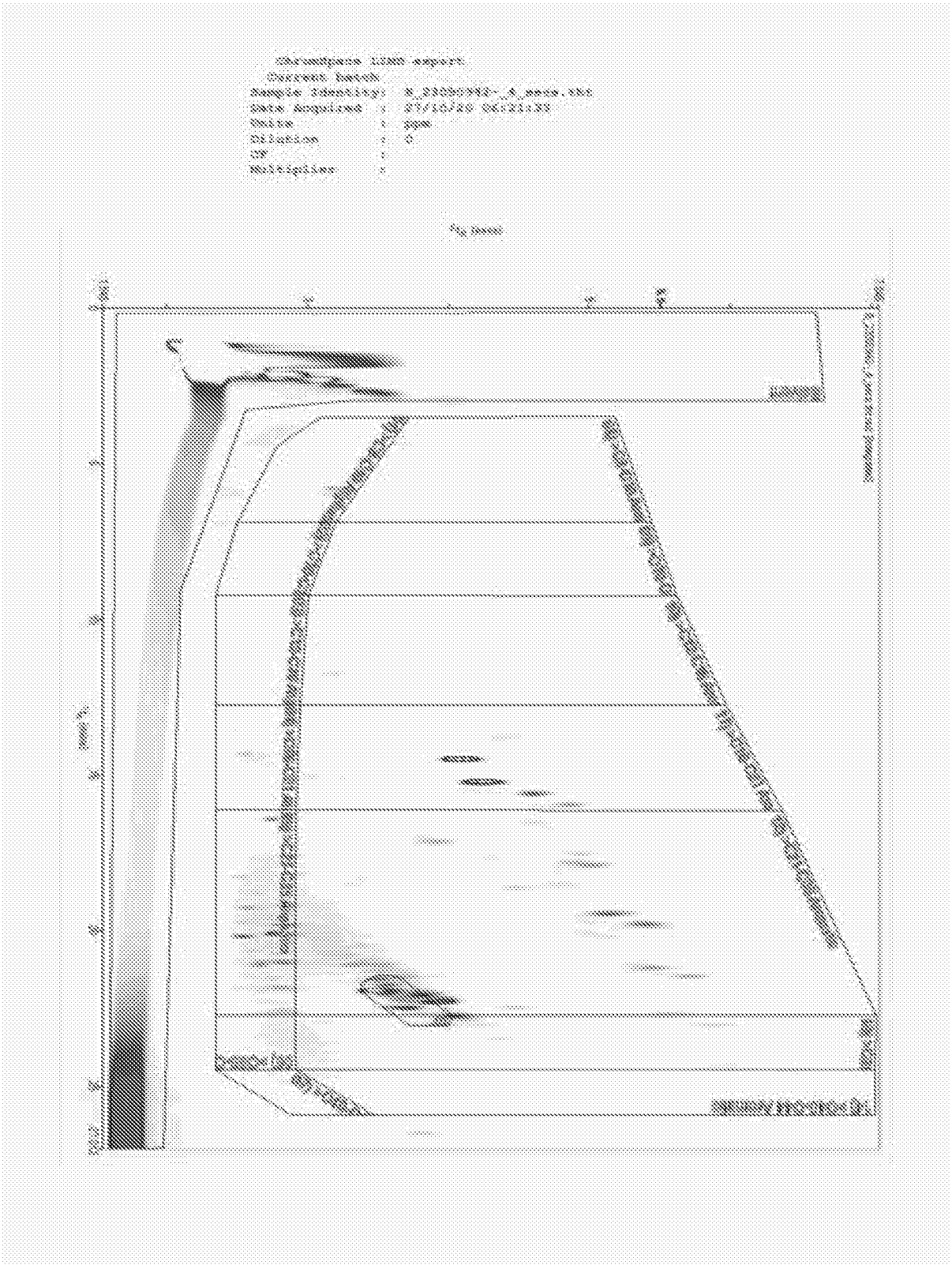


CERTIFICATE OF ANALYSIS

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Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 23090942 **Sample ID :** ES5 (P70) **Depth :** 0.00 - 0.15

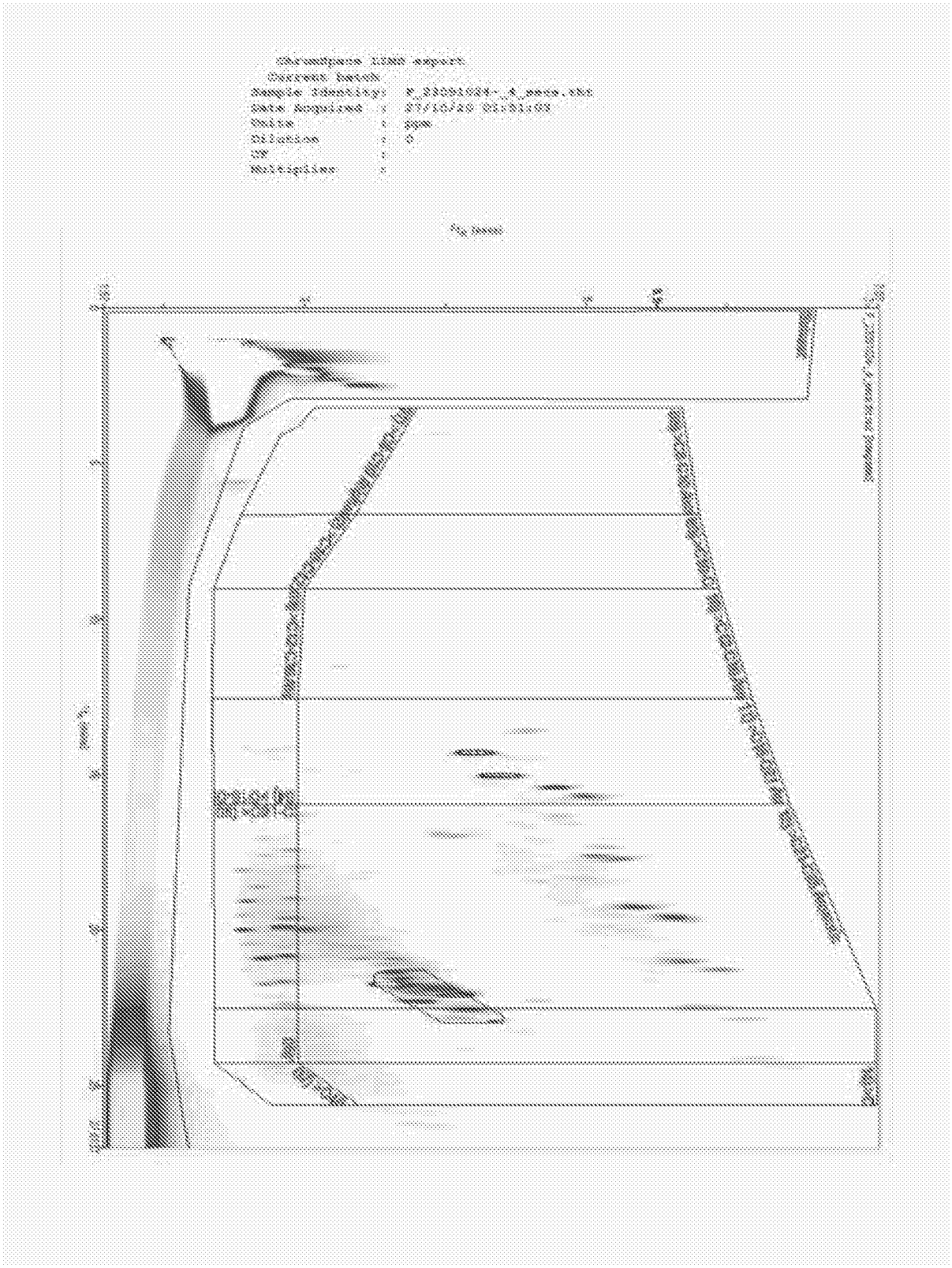


CERTIFICATE OF ANALYSIS

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Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 23091024 **Depth :** 0.00 - 0.25
Sample ID : ES6 (SPOS)

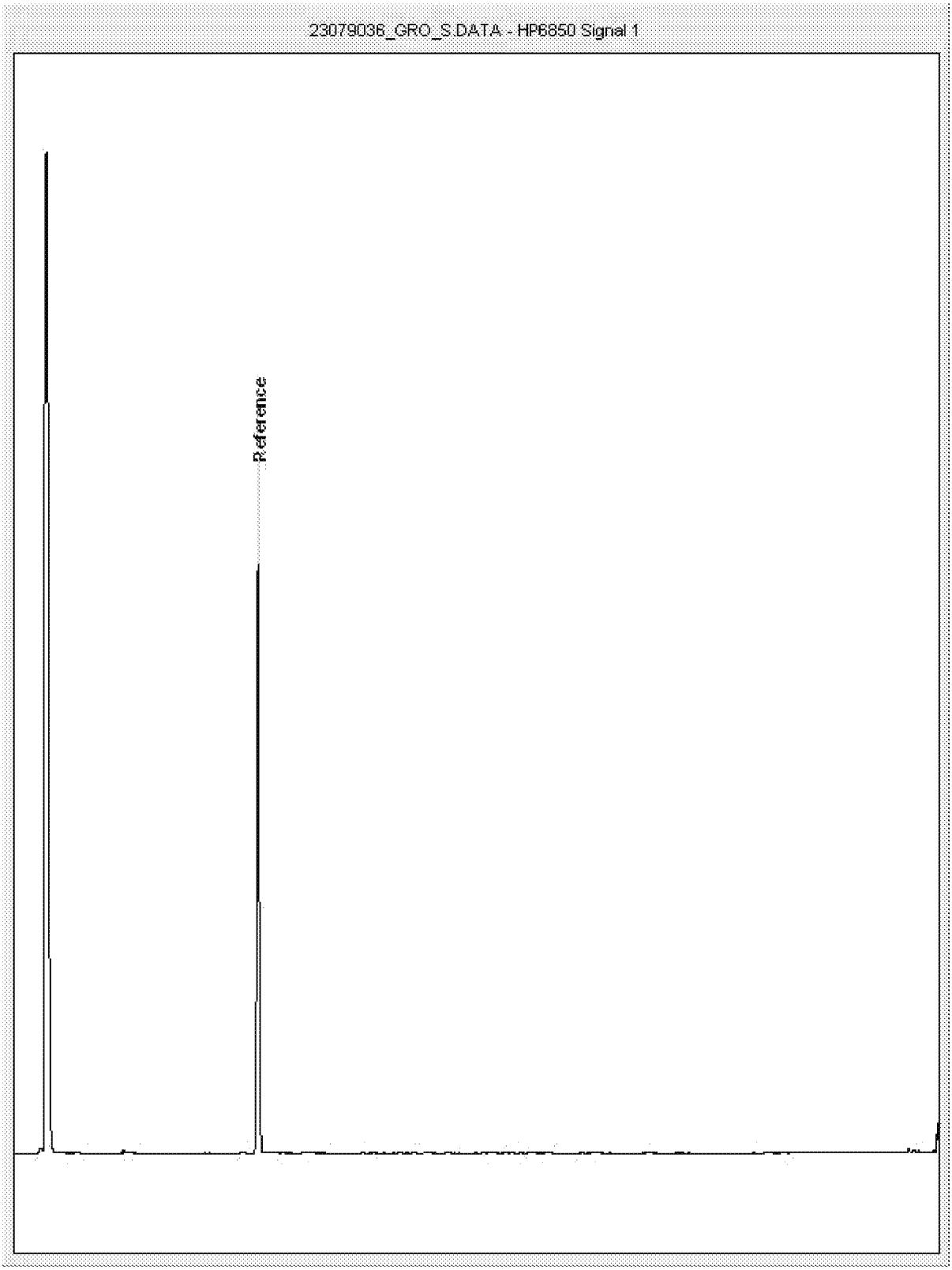


CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 23079036 **Sample ID :** ES6 (SPOS) **Depth :** 0.00 - 0.25

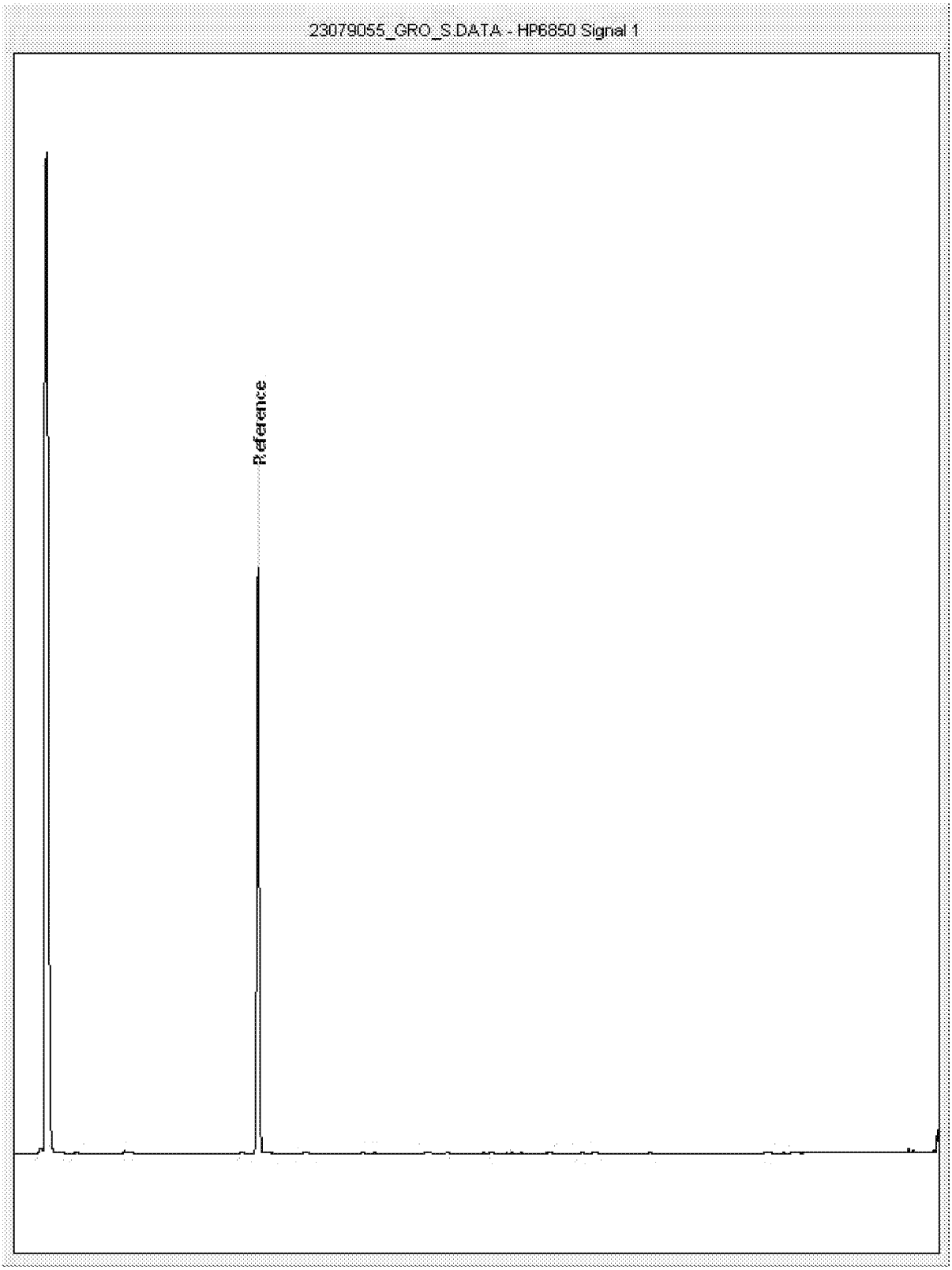


CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 23079055 **Sample ID :** ES5 (P70) **Depth :** 0.00 - 0.15

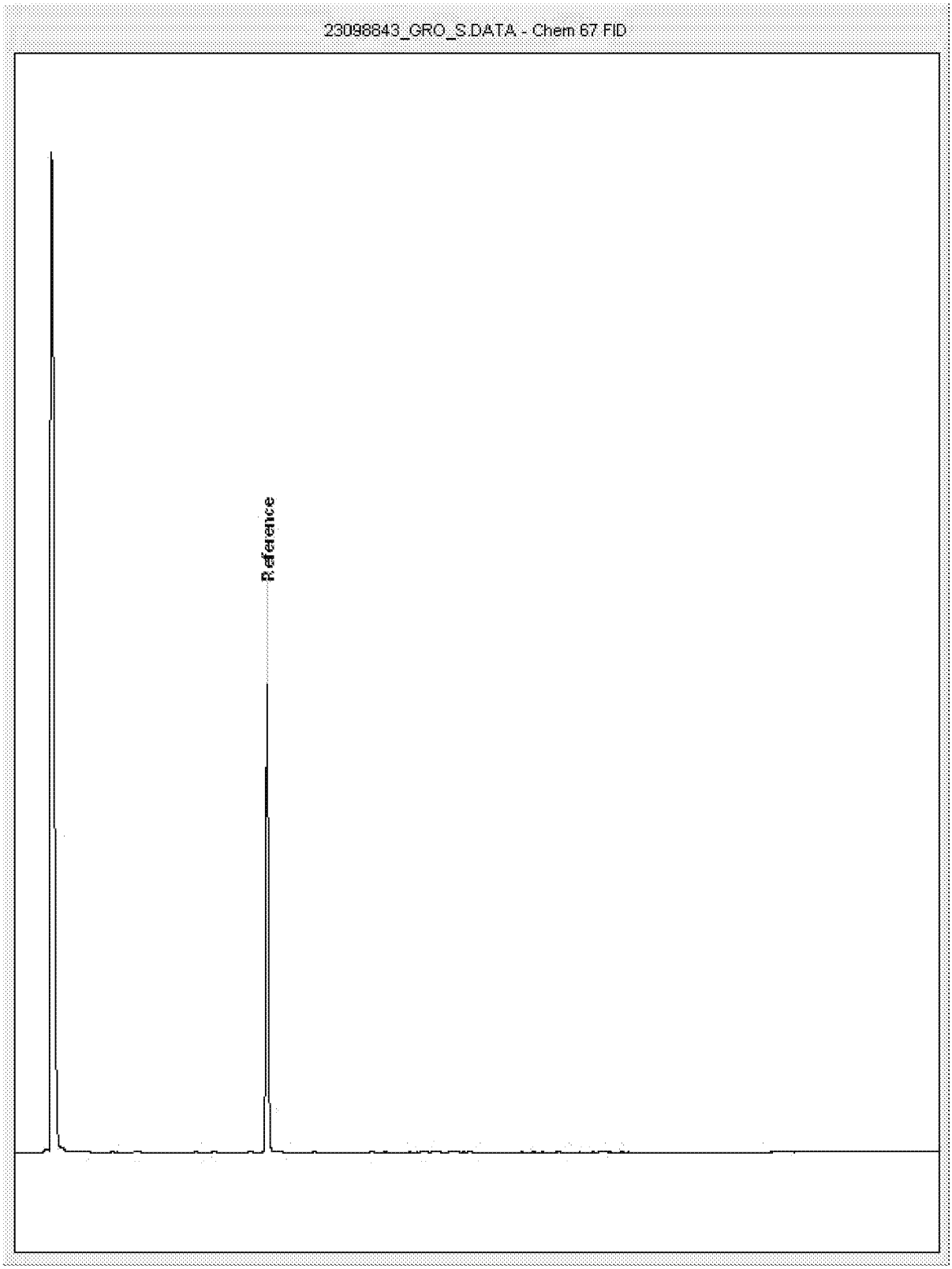


CERTIFICATE OF ANALYSIS

SDG:	201020-53	**Client Reference:**	A111089-1	**Report Number:**	573323
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	573095

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 23098843 **Depth :** 0.25 - 0.70
Sample ID : ES7 (SPOS)



ALS Environmental, Land	QF.7.5.1 Data Amendments Form (Issue No. 3)
	Date: 10/01/2020
	Issued and Authorised by Quality Manager

SDG	Sample Event	Sample ID	Date Amended	Amendment Reason	Previous Reference	New Reference	Supercedes Report
201020-53	23072136	P70	29/10/2020	Sample ID Change	P70	ES5 (P70)	573095
201020-53	23072143	SPOS	29/10/2020	Sample ID Change	SPOS	ES6 (SPOS)	573095
201020-53	23072150	SPOS	29/10/2020	Sample ID Change	SPOS	ES7 (SPOS)	573095

Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH_4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
*	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
$	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

[redacted]

WYG Geo-Environment
11th Floor
1 Angel Court
London
Middlesex
EC2R 7HJ

Attention: Emily Holcroft

CERTIFICATE OF ANALYSIS

Date of report Generation:	18 November 2020
Customer:	WYG Geo-Environment
Sample Delivery Group (SDG):	201111-149
Your Reference:	A111089-1
Location:	Windroos
Report No:	576067

We received 1 sample on Wednesday November 11, 2020 and 1 of these samples were scheduled for analysis which was completed on Wednesday November 18, 2020. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

[redacted]

Sonia McWhan

Operations Manager

ALS Life Sciences Limited. ALS Life Sciences Limited registered Office: Units 7 & 8 Hawarden Business Park, Manor Road, Hawarden, Deeside, CH5 3US. Registered in England and Wales No. 4057291.

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23224218	ES8 (P33)	ESHA00061830	0.05 - 0.20	10/11/2020

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Results Legend

X **Test**

ND **No Determination Possible**

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			23224218		
Customer Sample Reference			ES8 (F33)		
AGS Reference			ESHA00061830		
Depth (m)			0.05 - 0.20		
Container			1kg TUB with Handle (ALE250)	250g Amber Jar (ALE210)	60g VOC (ALE215)
Sample Type			S	S	S
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 1	X		
Chromium III	All	NDPs: 0 Tests: 1		X	
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 1		X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 1			X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 1		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 1		X	
PAH by GCMS	All	NDPs: 0 Tests: 1		X	
pH	All	NDPs: 0 Tests: 1		X	
Sample description	All	NDPs: 0 Tests: 1		X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
VOC MS (S)	All	NDPs: 0 Tests: 1			X

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Sample Descriptions

Grain Sizes

Very Fine	<0.063mm	Fine	0.063mm - 0.1mm	Medium	0.1mm - 2mm	Coarse	2mm - 10mm	Very Coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
23224218	ES8 (P33)	0.05 - 0.20	Dark Brown	Loamy Sand	Stones	Vegetation

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4[5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.					
			ES8 (P33)					
Depth (m)			0.05 - 0.20					
Sample Type			Soil/Solid (S)					
Date Sampled			10/11/2020					
Sampled Time								
Date Received			11/11/2020					
SDG Ref			201111-149					
Lab Sample No.(s)			23224218					
AGS Reference			ESHA0006183D					
Moisture Content Ratio (% of as received sample)	%	PM024	14					
pH	1 pH Units	TM133	7.87 M					
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #					
Cyanide, Easily liberatable (low level)	<0.5 mg/kg	TM153	<0.5					
Chromium, Trivalent	<0.9 mg/kg	TM181	16.4					
Arsenic	<0.6 mg/kg	TM181	9.52 M					
Beryllium	<0.01 mg/kg	TM181	0.572 M					
Boron	<0.7 mg/kg	TM181	8.37 #					
Cadmium	<0.02 mg/kg	TM181	0.588 M					
Chromium	<0.9 mg/kg	TM181	16.4 M					
Copper	<1.4 mg/kg	TM181	20.2 M					
Lead	<0.7 mg/kg	TM181	57.7 M					
Mercury	<0.14 mg/kg	TM181	<0.14 M					
Nickel	<0.2 mg/kg	TM181	13.6 M					
Selenium	<1 mg/kg	TM181	<1 #					
Vanadium	<0.2 mg/kg	TM181	28.6 #					
Zinc	<1.9 mg/kg	TM181	129 M					

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Customer Sample Ref.	ES8 (P33)							
Depth (m)	0.05 - 0.20							
Sample Type	Soil/Solid (S)							
Date Sampled	10/11/2020							
Sampled Time								
Date Received	11/11/2020							
SDG Ref	201111-149							
Lab Sample No.(s)	23224218							
AGS Reference	ESHA0005183D							
Component	**LOD/Units**	**Method**						
Naphthalene-d8 % recovery**	%	TM218	88.3					
Acenaphthene-d10 % recovery**	%	TM218	89.5					
Phenanthrene-d10 % recovery**	%	TM218	94.6					
Chrysene-d12 % recovery**	%	TM218	100					
Perylene-d12 % recovery**	%	TM218	102					
Naphthalene	<9 µg/kg	TM218	<9 M					
Acenaphthylene	<12 µg/kg	TM218	28.1 M					
Acenaphthene	<8 µg/kg	TM218	27.4 M					
Fluorene	<10 µg/kg	TM218	22.9 M					
Phenanthrene	<15 µg/kg	TM218	355 M					
Anthracene	<16 µg/kg	TM218	95.4 M					
Fluoranthene	<17 µg/kg	TM218	915 M					
Pyrene	<15 µg/kg	TM218	827 M					
Benz(a)anthracene	<14 µg/kg	TM218	474 M					
Chrysene	<10 µg/kg	TM218	482 M					
Benzo(b)fluoranthene	<15 µg/kg	TM218	684 M					
Benzo(k)fluoranthene	<14 µg/kg	TM218	226 M					
Benzo(a)pyrene	<15 µg/kg	TM218	511 M					
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	347 M					
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	61.1 M					
Benzo(g,h,i)perylene	<24 µg/kg	TM218	358 M					
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	5410					

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

TPH CWG (S)

Results Legend		Customer Sample Ref.	ES8 (P33)					
#	ISO17025 accredited.							
M	*m*CERTS accredited.							
aq	Aqueous / settled sample.							
diss.filt	Dissolved / filtered sample.	Depth (m)	0.05 - 0.20					
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid (S)					
*	Subcontracted - refer to subcontractor report for accreditation status.	Date Sampled	10/11/2020					
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sampled Time						
		Date Received	11/11/2020					
		SDG Ref	201111-149					
(F)	Trigger breach confirmed	Lab Sample No.(s)	23224218					
[+4+5@]	Sample deviation (see appendix)	AGS Reference	ESHA0061830					

Component	LOD/Units	Method						
GRO Surrogate % recovery**	%	TM089	108					
Aliphatics >C5-C6	<10 µg/kg	TM089	<10					
Aliphatics >C6-C8	<10 µg/kg	TM089	<10					
Aliphatics >C8-C10	<10 µg/kg	TM089	<10					
Aliphatics >C10-C12	<1000 µg/kg	TM414	<1000					
Aliphatics >C12-C16	<1000 µg/kg	TM414	<1000					
Aliphatics >C16-C21	<1000 µg/kg	TM414	<1000					
Aliphatics >C21-C35	<1000 µg/kg	TM414	12900					
Aliphatics >C35-C44	<1000 µg/kg	TM414	1310					
Total Aliphatics >C10-C44	<5000 µg/kg	TM414	15400					
Total Aliphatics & Aromatics >C10-C44	<10000 µg/kg	TM414	59200					
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10					
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10					
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10					
Aromatics > EC10-EC12	<1000 µg/kg	TM414	<1000					
Aromatics > EC12-EC16	<1000 µg/kg	TM414	<1000					
Aromatics > EC16-EC21	<1000 µg/kg	TM414	9670					
Aromatics > EC21-EC35	<1000 µg/kg	TM414	31100					
Aromatics >EC35-EC44	<1000 µg/kg	TM414	3000					
Aromatics > EC40-EC44	<1000 µg/kg	TM414	<1000					
Total Aromatics > EC10-EC44	<5000 µg/kg	TM414	43800					
Total Aliphatics & Aromatics >C5-C44	<10000 µg/kg	TM414	59200					
Total Aliphatics >C5-C10	<50 µg/kg	TM089	<50					
Total Aromatics >EC5-EC10	<50 µg/kg	TM089	<50					
GRO >C5-C10	<20 µg/kg	TM089	<20					

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+5@	Sample deviation (see appendix)

Customer Sample Ref.	ES8 (P33)
Depth (m)	0.05 - 0.20
Sample Type	Soil/Solid (S)
Date Sampled	10/11/2020
Sampled Time	
Date Received	11/11/2020
SDG Ref	201111-149
Lab Sample No.(s)	23224218
AGS Reference	ESHA00061830

Component	LOD/Units	Method					
Dibromofluoromethane**	%	TM116	117				
Toluene-d8**	%	TM116	100				
4-Bromofluorobenzene**	%	TM116	93.1				
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<100 M				
Benzene	<9 µg/kg	TM116	<90 M				
Toluene	<7 µg/kg	TM116	<70 M				
Ethylbenzene	<4 µg/kg	TM116	<40 M				
p/m-Xylene	<10 µg/kg	TM116	<100 #				
o-Xylene	<10 µg/kg	TM116	<100 M				
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.2				
Sum of BTEX	<40 µg/kg	TM116	<400				

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&+$@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref.	ES8 (P33)ESHA00061830	18/11/2020	Barbara Urbanek-Walsh	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Depth (m)	0.05 - 0.20										
Sample Type	SOLID										
Date Sampled	10/11/2020 00:00:00										
Date Received	11/11/2020 11:00:00										
SDG	201111-149										
Original Sample	23224218										
Method Number	TM048										

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM414	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	23224218
Customer Sample Ref.	ES8 (F33)
AGS Ref.	ESHA00061830
Depth	0.05 - 0.20
Type	Soil/Solid (S)
Asbestos ID in Solid Samples	18-Nov-2020
Chromium III	18-Nov-2020
Cyanide Comp/Free/Total/Thiocyanate	16-Nov-2020
EPH CWG GC (S)	16-Nov-2020
GRO by GC-FID (S)	17-Nov-2020
Hexavalent Chromium (s)	17-Nov-2020
Metals in solid samples by OES	18-Nov-2020
PAH by GCMS	13-Nov-2020
pH	17-Nov-2020
Sample description	12-Nov-2020
TPH CWG GC (S)	17-Nov-2020
VOC MS (S)	13-Nov-2020

ASSOCIATED AQC DATA

Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 2360
Free Cyanide	TM153	**92.18** 78.61 : 114.43
Thiocyanate	TM153	**94.87** 90.48 : 109.52
Total Cyanide	TM153	**91.61** 76.80 : 112.96

GRO by GC-FID (S)

Component	Method Code	QC 2317
QC	TM089	**89.7** 70.34 : 111.95

Hexavalent Chromium (S)

Component	Method Code	QC 2348
Hexavalent Chromium	TM151	**98.0** 92.00 : 111.20

Metals in solid samples by OES

Component	Method Code	QC 2376
Aluminium	TM181	**97.35** 77.46 : 123.98
Antimony	TM181	**75.2** 87.04 : 111.16
Arsenic	TM181	**98.26** 87.34 : 110.87
Barium	TM181	**96.33** 80.73 : 115.16
Beryllium	TM181	**101.12** 89.47 : 112.97
Boron	TM181	**90.26** 76.57 : 104.15
Cadmium	TM181	**92.18** 78.94 : 102.43
Chromium	TM181	**92.9** 77.55 : 104.47
Cobalt	TM181	**88.36** 82.95 : 107.41
Copper	TM181	**93.84** 84.36 : 106.14
Iron	TM181	**99.21** 81.43 : 115.79
Lead	TM181	**89.64** 81.95 : 107.63

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Metals in solid samples by OES

		QC 2376
Manganese	TM181	**106.94** 94.29 : 119.51
Mercury	TM181	**93.72** 82.73 : 106.36
Molybdenum	TM181	**92.18** 86.61 : 111.07
Nickel	TM181	**89.98** 79.72 : 103.80
Phosphorus	TM181	**119.8** 92.65 : 125.47
Selenium	TM181	**96.08** 88.36 : 111.25
Strontium	TM181	**91.98** 78.06 : 99.91
Thallium	TM181	**99.12** 88.60 : 116.73
Tin	TM181	**93.92** 89.77 : 112.62
Titanium	TM181	**81.68** 66.29 : 105.96
Vanadium	TM181	**97.07** 75.51 : 108.87
Zinc	TM181	**97.54** 84.02 : 111.24

PAH by GCMS

Component	Method Code	QC 2310
Acenaphthene	TM218	**83.0** 73.47 : 109.80
Acenaphthylene	TM218	**84.0** 70.00 : 130.00
Anthracene	TM218	**88.5** 68.68 : 111.89
Benz(a)anthracene	TM218	**104.0** 68.12 : 118.39
Benzo(a)pyrene	TM218	**101.5** 71.72 : 115.31
Benzo(b)fluoranthene	TM218	**102.5** 66.89 : 120.40
Benzo(ghi)perylene	TM218	**96.5** 67.82 : 118.49
Benzo(k)fluoranthene	TM218	**104.0** 73.10 : 117.03
Chrysene	TM218	**101.0** 69.58 : 115.47
Dibenzo(ah)anthracene	TM218	**94.5** 67.32 : 121.35
Fluoranthene	TM218	**106.0** 75.16 : 117.28
Fluorene	TM218	**85.0** 73.81 : 108.66
Indeno(123cd)pyrene	TM218	**90.5** 68.91 : 117.62

PAH by GCMS

		QC 2310
Naphthalene	TM218	**79.5** 72.12 : 106.18
Phenanthrene	TM218	**94.0** 69.01 : 113.72
Pyrene	TM218	**104.0** 75.68 : 119.23

pH

Component	Method Code	QC 2302
pH	TM133	**100.53** 98.79 : 101.47

VOC MS (S)

Component	Method Code	QC 2337
1,1,1,2-tetrachloroethane	TM116	**98.2** 84.84 : 116.25
1,1,1-Trichloroethane	TM116	**94.4** 73.73 : 118.05
1,1,2-Trichloroethane	TM116	**94.8** 77.12 : 116.04
1,1-Dichloroethane	TM116	**103.8** 74.46 : 129.15
1,2-Dichloroethane	TM116	**107.0** 92.38 : 131.65
1,4-Dichlorobenzene	TM116	**96.6** 83.64 : 126.18
2-Chlorotoluene	TM116	**91.2** 76.03 : 113.25
4-Chlorotoluene	TM116	**86.8** 66.90 : 112.46
Benzene	TM116	**97.2** 88.60 : 113.80
Carbon Disulphide	TM116	**101.2** 74.91 : 122.14
Carbontetrachloride	TM116	**95.8** 80.31 : 124.50
Chlorobenzene	TM116	**99.2** 83.81 : 114.18
Chloroform	TM116	**103.6** 87.40 : 122.49
Chloromethane	TM116	**90.2** 65.89 : 136.93
Cis-1,2-Dichloroethene	TM116	**101.0** 80.67 : 126.72
Dibromomethane	TM116	**90.8** 73.23 : 118.35
Dichloromethane	TM116	**106.2** 81.11 : 133.25

VOC MS (S)

		QC 2337
Ethylbenzene	TM116	**88.6** 75.92 : 110.41
Hexachlorobutadiene	TM116	**56.8** 12.82 : 152.73
Isopropylbenzene	TM116	**71.4** 55.79 : 97.59
Naphthalene	TM116	**106.4** 80.86 : 128.81
o-Xylene	TM116	**83.4** 69.99 : 108.74
p/m-Xylene	TM116	**84.3** 68.32 : 108.91
Sec-Butylbenzene	TM116	**60.0** 38.50 : 101.50
Tetrachloroethene	TM116	**97.6** 76.95 : 121.02
Toluene	TM116	**92.6** 74.24 : 107.42
Trichloroethene	TM116	**93.8** 77.61 : 111.54
Trichlorofluoromethane	TM116	**102.0** 84.55 : 133.27
Vinyl Chloride	TM116	**93.2** 68.02 : 143.37

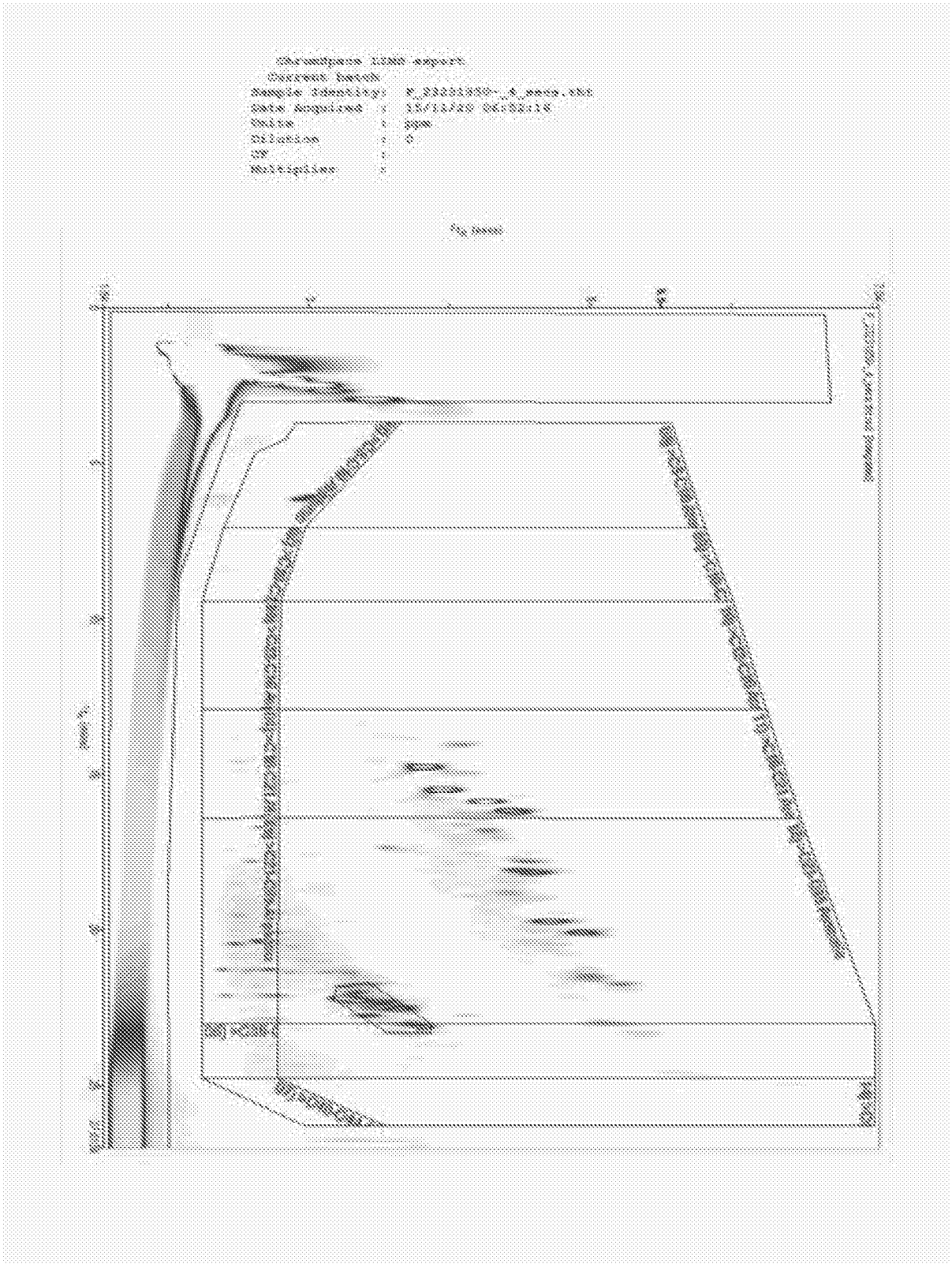
The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.
The figure detailed is the percentage recovery result for the AQC.
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.

CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 23231850 **Depth :** 0.05 - 0.20
Sample ID : ES8 (P33)

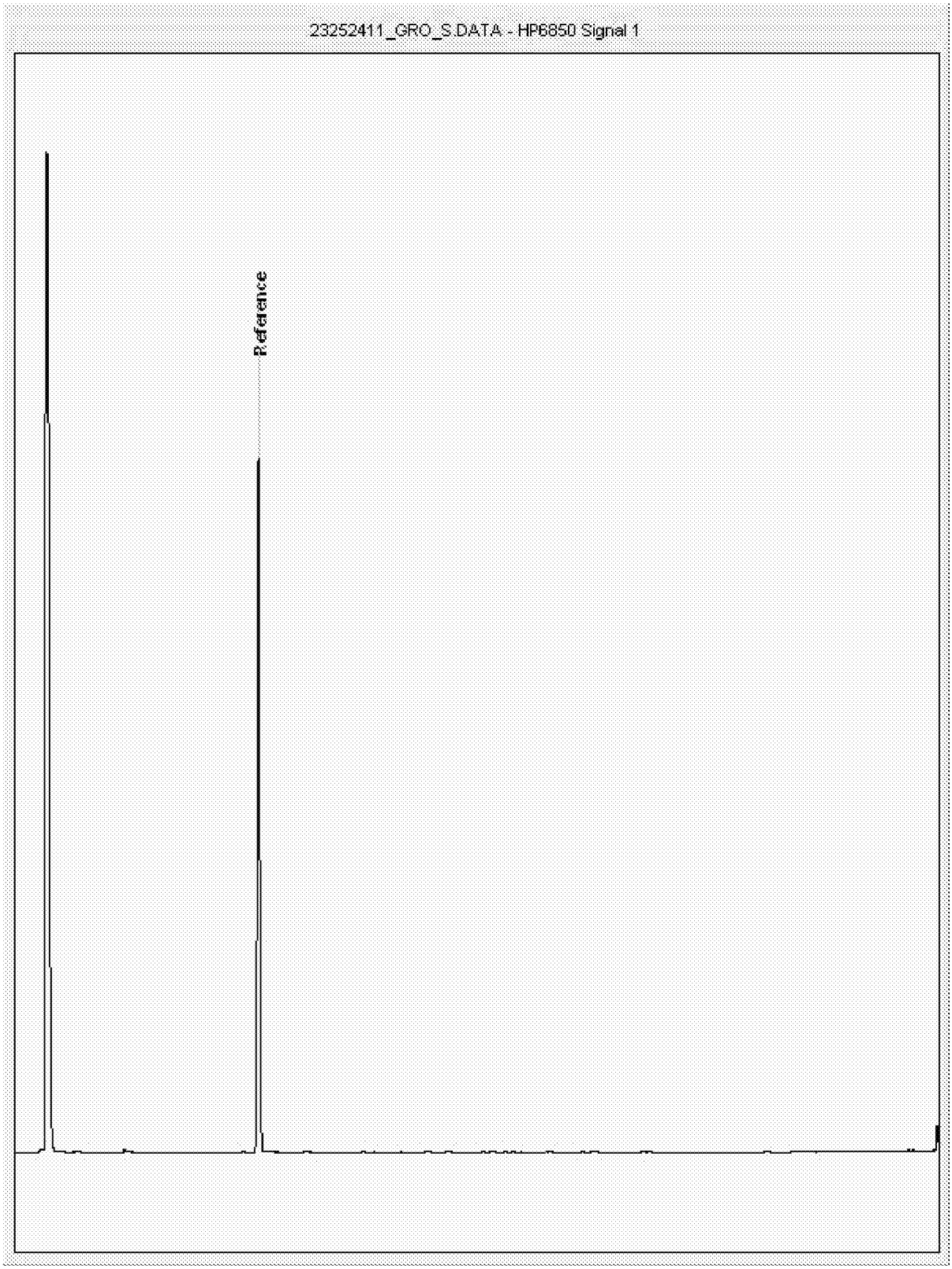


CERTIFICATE OF ANALYSIS

SDG:	201111-149	**Client Reference:**	A111089-1	**Report Number:**	576067
Location:	Windroos	**Order Number:**	8116/4016/20/0076	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 23252411 **Sample ID :** ES8 (P33) **Depth :** 0.05 - 0.20



Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
*	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
$	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

[redacted]

Tetra Tech Europe
11th Floor
1 Angel Court
London
Middlesex
EC2R 7HJ

Attention: Samara Hyde

CERTIFICATE OF ANALYSIS

Date of report Generation:	10 March 2021
Customer:	Tetra Tech Europe
Sample Delivery Group (SDG):	210303-119
Your Reference:	784-AA111089-1
Location:	Windroos
Report No:	589967

We received 2 samples on Wednesday March 03, 2021 and 1 of these samples were scheduled for analysis which was completed on Wednesday March 10, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

[redacted]

Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23830118	ES9	ES9		02/03/2021
23830121	ES10 (LPOS)	ES10	0.05 - 0.50	02/03/2021

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Results Legend

X Test

NR No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			23830121		
Customer Sample Reference			ES10 (LPOS)		
AGS Reference			ES10		
Depth (m)			0.05 - 0.50		
Container			1kg TUB with Handle (ALE250)	250g Amber Jar (ALE210)	60g VOC (ALE215)
Sample Type			S	S	S
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 1	X		
Chromium III	All	NDPs: 0 Tests: 1		X	
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 1		X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 1			X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 1		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 1		X	
PAH by GCMS	All	NDPs: 0 Tests: 1		X	
pH	All	NDPs: 0 Tests: 1		X	
Sample description	All	NDPs: 0 Tests: 1		X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
VOC MS (S)	All	NDPs: 0 Tests: 1			X

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Sample Descriptions

Grain Sizes

Very Fine	<0.063mm	Fine	0.063mm - 0.1mm	Medium	0.1mm - 2mm	Coarse	2mm - 10mm	Very Coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
23830121	ES10 (LPOS)	0.05 - 0.50	Dark Brown	Sandy Clay Loam	Stones	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Customer Sample Ref.	ES10 (LPOS)
Depth (m)	0.05 - 0.50
Sample Type	Soil/Solid (S)
Date Sampled	02/03/2021
Sampled Time	
Date Received	03/03/2021
SDG Ref	210303-119
Lab Sample No.(s)	23830121
AGS Reference	ES10

Component	LOD/Units	Method	ES10 (LPOS)
Moisture Content Ratio (% of as received sample)	%	PM024	17
pH	1 pH Units	TM133	7.93 M
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #
Cyanide, Easily liberatable (low level)	<0.5 mg/kg	TM153	<0.5
Chromium, Trivalent	<0.9 mg/kg	TM181	12.8
Arsenic	<0.6 mg/kg	TM181	8.17 M
Beryllium	<0.01 mg/kg	TM181	0.523 M
Boron	<0.7 mg/kg	TM181	10.4 #
Cadmium	<0.02 mg/kg	TM181	0.28 M
Chromium	<0.9 mg/kg	TM181	12.8 M
Copper	<1.4 mg/kg	TM181	25.5 M
Lead	<0.7 mg/kg	TM181	72.3 M
Mercury	<0.1 mg/kg	TM181	<0.1 M
Nickel	<0.2 mg/kg	TM181	13.1 M
Selenium	<1 mg/kg	TM181	<1 #
Vanadium	<0.2 mg/kg	TM181	23.8 #
Zinc	<1.9 mg/kg	TM181	121 M

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

PAH by GCMS

Results Legend		Customer Sample Ref.	ES10 (LPOS)
#	ISO17025 accredited.		
M	*m*CERTS accredited.		
aq	Aqueous / settled sample.		
diss.filt	Dissolved / filtered sample.	Depth (m)	0.05 - 0.50
tot.unfilt	Total / unfiltered sample.	Sample Type	Soil/Solid (S)
*	Subcontracted - refer to subcontractor report for accreditation status.	Date Sampled	02/03/2021
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery	Sampled Time	
		Date Received	03/03/2021
		SDG Ref	210303-119
(F)	Trigger breach confirmed	Lab Sample No.(s)	23830121
1-4+5@	Sample deviation (see appendix)	AGS Reference	ES10

Component	LOD/Units	Method					
Naphthalene-d8 % recovery**	%	TM218	91.3				
Acenaphthene-d10 % recovery**	%	TM218	89.2				
Phenanthrene-d10 % recovery**	%	TM218	86.2				
Chrysene-d12 % recovery**	%	TM218	81.3				
Perylene-d12 % recovery**	%	TM218	86.8				
Naphthalene	<9 µg/kg	TM218	<90 M				
Acenaphthylene	<12 µg/kg	TM218	<120 M				
Acenaphthene	<8 µg/kg	TM218	<80 M				
Fluorene	<10 µg/kg	TM218	<100 M				
Phenanthrene	<15 µg/kg	TM218	198 M				
Anthracene	<16 µg/kg	TM218	<160 M				
Fluoranthene	<17 µg/kg	TM218	676 M				
Pyrene	<15 µg/kg	TM218	587 M				
Benz(a)anthracene	<14 µg/kg	TM218	363 M				
Chrysene	<10 µg/kg	TM218	348 M				
Benzo(b)fluoranthene	<15 µg/kg	TM218	588 M				
Benzo(k)fluoranthene	<14 µg/kg	TM218	187 M				
Benzo(a)pyrene	<15 µg/kg	TM218	387 M				
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	367 M				
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	<230 M				
Benzo(g,h,i)perylene	<24 µg/kg	TM218	305 M				
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	4010				

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES10 (LPOS)
			Depth (m)	0.05 - 0.50
			Sample Type	Soil/Solid (S)
			Date Sampled	02/03/2021
			Sampled Time	
			Date Received	03/03/2021
			SDG Ref	210303-119
			Lab Sample No.(s)	23830121
			AGS Reference	ES10
GRO Surrogate % recovery**	%	TM089		85
Aliphatics >C5-C6	<10 µg/kg	TM089		<10
Aliphatics >C6-C8	<10 µg/kg	TM089		<10
Aliphatics >C8-C10	<10 µg/kg	TM089		<10
Aliphatics >C10-C12	<1000 µg/kg	TM414		<1000
Aliphatics >C12-C16	<1000 µg/kg	TM414		<1000
Aliphatics >C16-C21	<1000 µg/kg	TM414		1670
Aliphatics >C21-C35	<1000 µg/kg	TM414		12000
Aliphatics >C35-C44	<1000 µg/kg	TM414		2210
Total Aliphatics >C10-C44	<5000 µg/kg	TM414		16400
Total Aliphatics & Aromatics >C10-C44	<10000 µg/kg	TM414		56500
Aromatics >EC5-EC7	<10 µg/kg	TM089		<10
Aromatics >EC7-EC8	<10 µg/kg	TM089		<10
Aromatics >EC8-EC10	<10 µg/kg	TM089		<10
Aromatics > EC10-EC12	<1000 µg/kg	TM414		<1000
Aromatics > EC12-EC16	<1000 µg/kg	TM414		<1000
Aromatics > EC16-EC21	<1000 µg/kg	TM414		2780
Aromatics > EC21-EC35	<1000 µg/kg	TM414		27600
Aromatics >EC35-EC44	<1000 µg/kg	TM414		9510
Aromatics > EC40-EC44	<1000 µg/kg	TM414		1500
Total Aromatics > EC10-EC44	<5000 µg/kg	TM414		40000
Total Aliphatics & Aromatics >C5-C44	<10000 µg/kg	TM414		56500
Total Aliphatics >C5-C10	<50 µg/kg	TM089		<50
Total Aromatics >EC5-EC10	<50 µg/kg	TM089		<50
GRO >C5-C10	<20 µg/kg	TM089		<20

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	ES10 (LPOS)
			Depth (m)	0.05 - 0.50
			Sample Type	Soil/Solid (S)
			Date Sampled	02/03/2021
			Sampled Time	
			Date Received	03/03/2021
			SDG Ref	210303-119
			Lab Sample No.(s)	23830121
			AGS Reference	ES10
Dibromofluoromethane**	%	TM116		123
Toluene-d8**	%	TM116		92.9
4-Bromofluorobenzene**	%	TM116		79.1
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116		<10 M
Benzene	<9 µg/kg	TM116		<9 M
Toluene	<7 µg/kg	TM116		<7 M
Ethylbenzene	<4 µg/kg	TM116		<4 M
p/m-Xylene	<10 µg/kg	TM116		<10 #
o-Xylene	<10 µg/kg	TM116		<10 M
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.02
Sum of BTEX	<40 µg/kg	TM116		<40

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&+$@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref.	ES10 (LPOS)ES10	10/03/2021	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Depth (m)	0.05 - 0.50										
Sample Type	SOLID										
Date Sampled	02/03/2021 00:00:00										
Date Received	03/03/2021 05:00:00										
SDG	210303-119										
Original Sample	23830121										
Method Number	TM048										

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM414	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	23830121
Customer Sample Ref.	ES10 (LPOS)
AGS Ref.	ES10
Depth	0.05 - 0.50
Type	Soil/Solid (S)
Asbestos ID in Solid Samples	10-Mar-2021
Chromium III	09-Mar-2021
Cyanide Comp/Free/Total/Thiocyanate	10-Mar-2021
EPH CWG GC (S)	08-Mar-2021
GRO by GC-FID (S)	10-Mar-2021
Hexavalent Chromium (s)	09-Mar-2021
Metals in solid samples by OES	09-Mar-2021
PAH by GCMS	08-Mar-2021
pH	09-Mar-2021
Sample description	05-Mar-2021
TPH CWG GC (S)	10-Mar-2021
VOC MS (S)	09-Mar-2021

ASSOCIATED AQC DATA

Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 2335
Free Cyanide	TM153	**97.92** 79.00 : 115.00
Thiocyanate	TM153	**99.36** 94.09 : 113.89
Total Cyanide	TM153	**99.3** 73.07 : 107.47

GRO by GC-FID (S)

Component	Method Code	QC 2348
QC	TM089	**88.32** 70.34 : 111.95

Hexavalent Chromium (S)

Component	Method Code	QC 2394
Hexavalent Chromium	TM151	**100.0** 92.00 : 111.20

Metals in solid samples by OES

Component	Method Code	QC 2306
Aluminium	TM181	**92.92** 73.56 : 108.85
Antimony	TM181	**99.59** 76.89 : 111.24
Arsenic	TM181	**101.16** 88.53 : 111.01
Barium	TM181	**92.66** 77.67 : 105.35
Beryllium	TM181	**100.37** 85.44 : 109.61
Boron	TM181	**94.84** 73.51 : 104.66
Cadmium	TM181	**86.01** 77.67 : 104.12
Chromium	TM181	**88.64** 79.64 : 105.83
Cobalt	TM181	**89.94** 84.60 : 104.13
Copper	TM181	**93.84** 82.40 : 105.45
Iron	TM181	**94.44** 82.95 : 110.58
Lead	TM181	**90.77** 78.24 : 104.05

Metals in solid samples by OES

		QC 2306
Manganese	TM181	**109.17** 94.29 : 119.51
Mercury	TM181	**97.83** 83.16 : 107.81
Molybdenum	TM181	**99.18** 87.11 : 106.87
Nickel	TM181	**89.0** 80.26 : 102.28
Phosphorus	TM181	**111.31** 94.56 : 124.28
Selenium	TM181	**101.18** 82.28 : 110.48
Strontium	TM181	**94.43** 79.13 : 102.79
Thallium	TM181	**100.44** 82.94 : 111.86
Tin	TM181	**98.86** 86.72 : 110.03
Titanium	TM181	**96.18** 66.23 : 102.06
Vanadium	TM181	**100.73** 86.19 : 109.45
Zinc	TM181	**99.38** 84.68 : 113.99

PAH by GCMS

Component	Method Code	QC 2302
Acenaphthene	TM218	**85.0** 80.97 : 105.99
Acenaphthylene	TM218	**83.0** 74.76 : 107.36
Anthracene	TM218	**80.5** 73.04 : 106.97
Benz(a)anthracene	TM218	**77.5** 68.79 : 119.64
Benzo(a)pyrene	TM218	**74.0** 66.17 : 117.52
Benzo(b)fluoranthene	TM218	**78.5** 66.40 : 118.34
Benzo(ghi)perylene	TM218	**76.0** 67.68 : 112.07
Benzo(k)fluoranthene	TM218	**79.0** 72.84 : 114.66
Chrysene	TM218	**79.0** 68.39 : 115.56
Dibenzo(ah)anthracene	TM218	**71.5** 69.03 : 110.45
Fluoranthene	TM218	**83.5** 69.37 : 117.19
Fluorene	TM218	**82.0** 75.38 : 105.98
Indeno(123cd)pyrene	TM218	**75.5** 65.91 : 113.61

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

PAH by GC/MS

		QC 2302
Naphthalene	TM218	**87.5** 71.40 : 105.87
Phenanthrene	TM218	**83.0** 74.04 : 109.30
Pyrene	TM218	**83.5** 69.68 : 115.27

pH

Component	Method Code	QC 2380
pH	TM133	**101.19** 98.71 : 102.32

VOC MS (S)

Component	Method Code	QC 2362
1,1,1,2-tetrachloroethane	TM116	**102.8** 79.10 : 119.66
1,1,1-Trichloroethane	TM116	**105.2** 84.25 : 112.57
1,1,2-Trichloroethane	TM116	**95.4** 81.29 : 113.79
1,1-Dichloroethane	TM116	**112.6** 86.77 : 122.11
1,2-Dichloroethane	TM116	**109.4** 90.04 : 132.28
1,4-Dichlorobenzene	TM116	**102.6** 80.81 : 125.07
2-Chlorotoluene	TM116	**87.4** 73.13 : 114.13
4-Chlorotoluene	TM116	**89.2** 68.66 : 109.13
Benzene	TM116	**98.8** 84.29 : 112.22
Carbon Disulphide	TM116	**93.2** 75.11 : 124.81
Carbontetrachloride	TM116	**106.2** 82.35 : 126.46
Chlorobenzene	TM116	**101.8** 82.88 : 122.42
Chloroform	TM116	**110.6** 90.35 : 120.38
Chloromethane	TM116	**115.0** 65.80 : 138.88
Cis-1,2-Dichloroethene	TM116	**106.6** 78.27 : 128.90
Dibromomethane	TM116	**97.8** 76.00 : 120.73
Dichloromethane	TM116	**116.8** 92.27 : 134.36

		QC 2362
Ethylbenzene	TM116	**84.4** 70.95 : 113.07
Hexachlorobutadiene	TM116	**37.8** 14.55 : 147.92
Isopropylbenzene	TM116	**67.4** 52.00 : 108.19
Naphthalene	TM116	**103.6** 80.29 : 135.77
o-Xylene	TM116	**80.4** 64.92 : 98.85
p/m-Xylene	TM116	**77.2** 72.04 : 104.04
Sec-Butylbenzene	TM116	**53.2** 27.03 : 135.73
Tetrachloroethene	TM116	**98.8** 81.43 : 126.65
Toluene	TM116	**89.2** 82.44 : 103.50
Trichloroethene	TM116	**92.8** 79.80 : 112.33
Trichlorofluoromethane	TM116	**107.8** 89.67 : 132.09
Vinyl Chloride	TM116	**117.8** 69.66 : 136.55

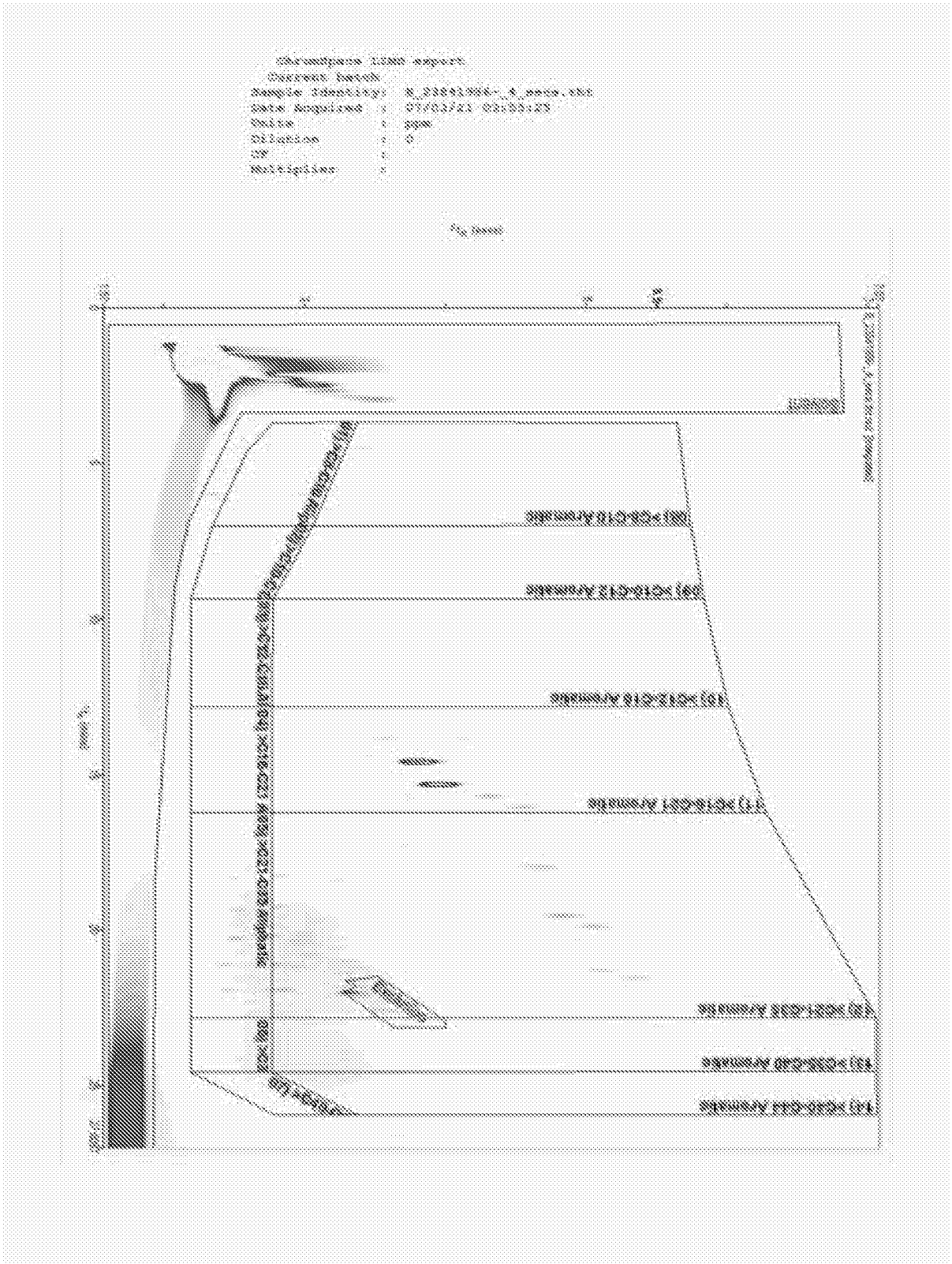
The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis.
The figure detailed is the percentage recovery result for the AQC.
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control.

CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 23841986 **Depth :** 0.05 - 0.50
Sample ID : ES10 (LPOS)

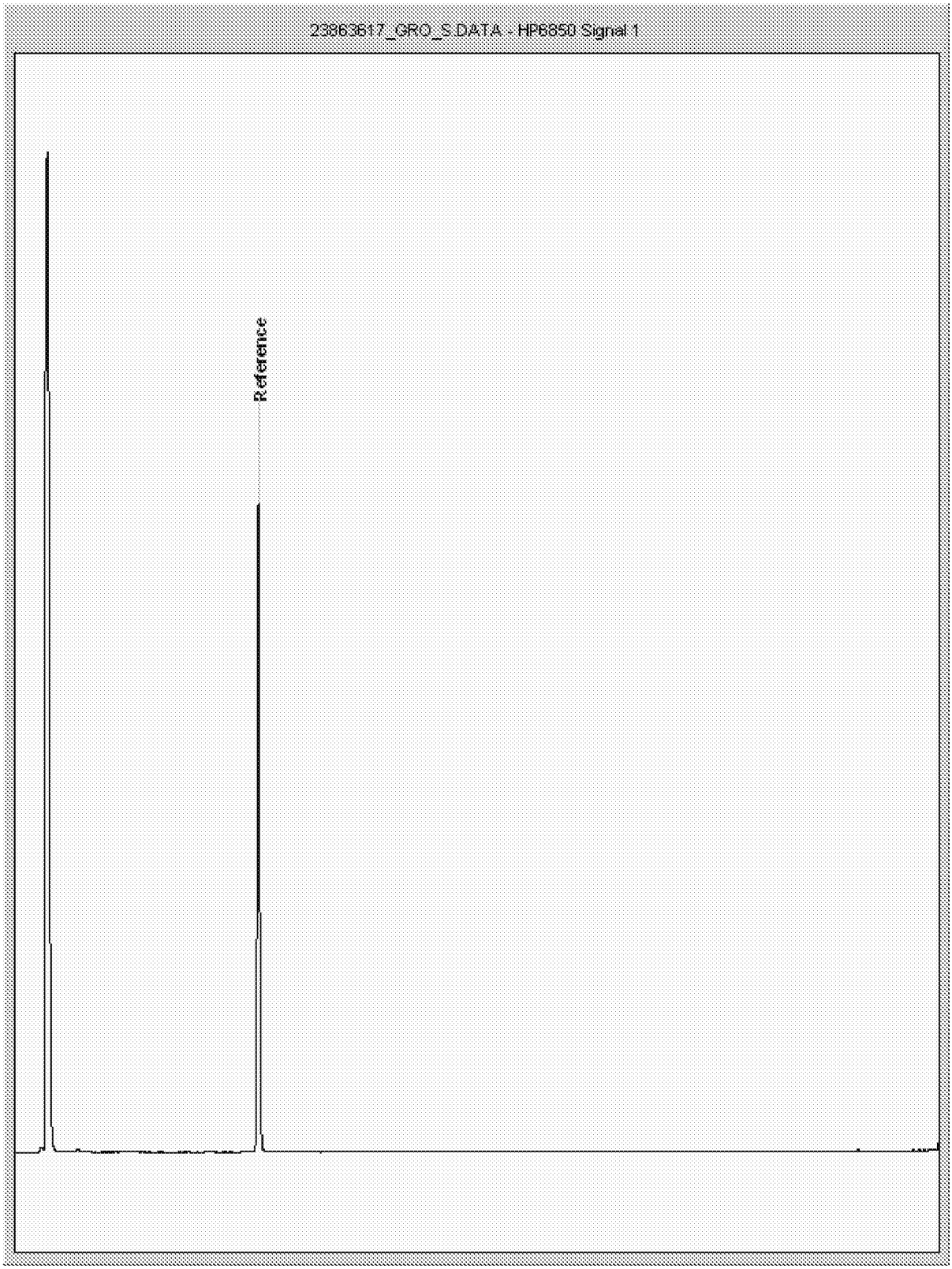


CERTIFICATE OF ANALYSIS

SDG:	210303-119	**Client Reference:**	784-AA111089-1	**Report Number:**	589967
Location:	Windroos	**Order Number:**	784-AA111089-1 Windroos	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 23863617 **Depth :** 0.05 - 0.50
Sample ID : ES10 (LPOS)



Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
*	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
$	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Unit 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US

[redacted]

Tetra Tech Europe
11th Floor
1 Angel Court
London
Middlesex
EC2R 7HJ

Attention: Samara Hyde

CERTIFICATE OF ANALYSIS

Date of report Generation:	13 April 2021
Customer:	Tetra Tech Europe
Sample Delivery Group (SDG):	210401-67
Your Reference:	784-AA111089-1
Location:	Windroos
Report No:	593863

We received 1 sample on Thursday April 01, 2021 and 1 of these samples were scheduled for analysis which was completed on Tuesday April 13, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.
The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

[redacted]

Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
24011601	ES11 (Plot 18)		0.00 - 0.52	31/03/2021

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Results Legend

X Test

No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)			24011601		
Customer Sample Reference			ES11 (Plot 18)		
AGS Reference					
Depth (m)			0.00 - 0.52		
Container			1kg TUB with Handle (ALE236)	250g Amber Jar (ALE210)	60g VOC (ALE215)
Sample Type			S	S	S
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 1	X		
Chromium III	All	NDPs: 0 Tests: 1		X	
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 1		X	
EPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
GRO by GC-FID (S)	All	NDPs: 0 Tests: 1			X
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 1		X	
Metals in solid samples by OES	All	NDPs: 0 Tests: 1		X	
PAH by GCMS	All	NDPs: 0 Tests: 1		X	
pH	All	NDPs: 0 Tests: 1		X	
Sample description	All	NDPs: 0 Tests: 1		X	
TPH CWG GC (S)	All	NDPs: 0 Tests: 1		X	
VOC MS (S)	All	NDPs: 0 Tests: 1			X

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Sample Descriptions

Grain Sizes

Very Fine	<0.063mm	Fine	0.063mm - 0.1mm	Medium	0.1mm - 2mm	Coarse	2mm - 10mm	Very Coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
24011601	ES11 (Plot 18)	0.00 - 0.52	Cream	Sand	Crushed Brick	Stones

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4*5@	Sample deviation (see appendix)

Customer Sample Ref.	ES11 (Plot 18)							
Depth (m)	0.00 - 0.52							
Sample Type	Soil/Solid (S)							
Date Sampled	31/03/2021							
Sampled Time								
Date Received	01/04/2021							
SDG Ref	210401-67							
Lab Sample No.(s)	24011501							
AGS Reference								
Component	**LOD/Units**	**Method**						
Moisture Content Ratio (% of as received sample)	%	PM024	14					
pH	1 pH Units	TM133	7.98 M					
Chromium, Hexavalent	<0.6 mg/kg	TM151	<0.6 #					
Cyanide, Easily liberatable (low level)	<0.5 mg/kg	TM153	<0.5					
Chromium, Trivalent	<0.9 mg/kg	TM181	16.1					
Arsenic	<0.6 mg/kg	TM181	10 M					
Beryllium	<0.01 mg/kg	TM181	0.59 M					
Boron	<0.7 mg/kg	TM181	12.9 #					
Cadmium	<0.02 mg/kg	TM181	0.331 M					
Chromium	<0.9 mg/kg	TM181	16.1 M					
Copper	<1.4 mg/kg	TM181	38.1 M					
Lead	<0.7 mg/kg	TM181	97.9 M					
Mercury	<0.1 mg/kg	TM181	<0.1 M					
Nickel	<0.2 mg/kg	TM181	12.6 M					
Selenium	<1 mg/kg	TM181	<1 #					
Vanadium	<0.2 mg/kg	TM181	29.8 #					
Zinc	<1.9 mg/kg	TM181	160 M					

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

PAH by GCMS

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4+5@	Sample deviation (see appendix)

Customer Sample Ref.	ES11 (Plot 18)
Depth (m)	0.00 - 0.52
Sample Type	Soil/Solid (S)
Date Sampled	31/03/2021
Sampled Time	
Date Received	01/04/2021
SDG Ref	210401-67
Lab Sample No.(s)	24011501
AGS Reference	

Component	LOD/Units	Method	
Naphthalene-d8 % recovery**	%	TM218	86.1
Acenaphthene-d10 % recovery**	%	TM218	89.7
Phenanthrene-d10 % recovery**	%	TM218	88.7
Chrysene-d12 % recovery**	%	TM218	81.7
Perylene-d12 % recovery**	%	TM218	81.5
Naphthalene	<9 µg/kg	TM218	<45 M
Acenaphthylene	<12 µg/kg	TM218	151 M
Acenaphthene	<8 µg/kg	TM218	88 M
Fluorene	<10 µg/kg	TM218	161 M
Phenanthrene	<15 µg/kg	TM218	1420 M
Anthracene	<16 µg/kg	TM218	534 M
Fluoranthene	<17 µg/kg	TM218	2790 M
Pyrene	<15 µg/kg	TM218	2410 M
Benz(a)anthracene	<14 µg/kg	TM218	1380 M
Chrysene	<10 µg/kg	TM218	1280 M
Benzo(b)fluoranthene	<15 µg/kg	TM218	1950 M
Benzo(k)fluoranthene	<14 µg/kg	TM218	808 M
Benzo(a)pyrene	<15 µg/kg	TM218	1420 M
Indeno(1,2,3-cd)pyrene	<18 µg/kg	TM218	1030 M
Dibenzo(a,h)anthracene	<23 µg/kg	TM218	228 M
Benzo(g,h,i)perylene	<24 µg/kg	TM218	978 M
PAH, Total Detected USEPA 16	<118 µg/kg	TM218	16600

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

TPH CWG (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1:4+5@	Sample deviation (see appendix)

Customer Sample Ref.	ES11 (Plot 18)							
Depth (m)	0.00 - 0.52							
Sample Type	Soil/Solid (S)							
Date Sampled	31/03/2021							
Sampled Time								
Date Received	01/04/2021							
SDG Ref	210401-67							
Lab Sample No.(s)	24011501							
AGS Reference								
Component	**LOD/Units**	**Method**						
GRO Surrogate % recovery**	%	TM089	83.2					
Aliphatics >C5-C6	<10 µg/kg	TM089	<10					
Aliphatics >C6-C8	<10 µg/kg	TM089	<10					
Aliphatics >C8-C10	<10 µg/kg	TM089	<10					
Aliphatics >C10-C12	<1000 µg/kg	TM414	<1000					
Aliphatics >C12-C16	<1000 µg/kg	TM414	<1000					
Aliphatics >C16-C21	<1000 µg/kg	TM414	2420					
Aliphatics >C21-C35	<1000 µg/kg	TM414	15700					
Aliphatics >C35-C44	<1000 µg/kg	TM414	7570					
Total Aliphatics >C10-C44	<5000 µg/kg	TM414	26200					
Total Aliphatics & Aromatics >C10-C44	<10000 µg/kg	TM414	78300					
Aromatics >EC5-EC7	<10 µg/kg	TM089	<10					
Aromatics >EC7-EC8	<10 µg/kg	TM089	<10					
Aromatics >EC8-EC10	<10 µg/kg	TM089	<10					
Aromatics > EC10-EC12	<1000 µg/kg	TM414	<1000					
Aromatics > EC12-EC16	<1000 µg/kg	TM414	<1000					
Aromatics > EC16-EC21	<1000 µg/kg	TM414	3190					
Aromatics > EC21-EC35	<1000 µg/kg	TM414	37500					
Aromatics >EC35-EC44	<1000 µg/kg	TM414	11100					
Aromatics > EC40-EC44	<1000 µg/kg	TM414	2910					
Total Aromatics > EC10-EC44	<5000 µg/kg	TM414	52100					
Total Aliphatics & Aromatics >C5-C44	<10000 µg/kg	TM414	78300					
Total Aliphatics >C5-C10	<50 µg/kg	TM089	<50					
Total Aromatics >EC5-EC10	<50 µg/kg	TM089	<50					
GRO >C5-C10	<20 µg/kg	TM089	<20					

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4=5@	Sample deviation (see appendix)

Customer Sample Ref.			ES11 (Plot 18)
Depth (m)			0.00 - 0.52
Sample Type			Soil/Solid (S)
Date Sampled			31/03/2021
Sampled Time			
Date Received			01/04/2021
SDG Ref			210401-67
Lab Sample No.(s)			24011501
AGS Reference			
Component	**LOD/Units**	**Method**	
Dibromofluoromethane**	%	TM116	113
Toluene-d8**	%	TM116	98.7
4-Bromofluorobenzene**	%	TM116	93.1
Methyl Tertiary Butyl Ether	<10 µg/kg	TM116	<200 M
Benzene	<9 µg/kg	TM116	<180 M
Toluene	<7 µg/kg	TM116	<140 M
Ethylbenzene	<4 µg/kg	TM116	<80 M
p/m-Xylene	<10 µg/kg	TM116	<200 #
o-Xylene	<10 µg/kg	TM116	<200 M
Sum of Detected Xylenes	<0.02 mg/kg	TM116	<0.4
Sum of BTEX	<40 µg/kg	TM116	<800

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&+$@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Fibrous Actinolite	Fibrous Anthophyllite	Fibrous Tremolite	Non-Asbestos Fibre
Cust. Sample Ref.	ES11 (Plot 18)	09/04/2021	James Richards	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Depth (m)	0.00 - 0.52										
Sample Type	SOLID										
Date Sampled	31/03/2021 00:00:00										
Date Received	01/04/2021 05:00:00										
SDG	210401-67										
Original Sample	24011601										
Method Number	TM048										

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Table of Results - Appendix

Method No	Reference	Description
PM024	Modified BS 1377	Soil preparation including homogenisation, moisture screens of soils for Asbestos Containing Material
TM048	HSG 248, Asbestos: The analysts' guide for sampling, analysis and clearance procedures	Identification of Asbestos in Bulk Material
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter
TM151	Method 3500D, AWWA/APHA, 20th Ed., 1999	Determination of Hexavalent Chromium using Kone analyser
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM181	US EPA Method 6010B	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM218	Shaker extraction - EPA method 3546.	The determination of PAH in soil samples by GC-MS
TM414	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Environmental Hawarden (Method codes TM) or ALS Environmental Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Test Completion Dates

Lab Sample No(s)	24011601
Customer Sample Ref.	ES11 (Pot 18)
AGS Ref.	
Depth	0.00 - 0.52
Type	Soil/Solid (S)
Asbestos ID in Solid Samples	09-Apr-2021
Chromium III	13-Apr-2021
Cyanide Comp/Free/Total/Thiocyanate	09-Apr-2021
EPH CWG GC (S)	12-Apr-2021
GRO by GC-FID (S)	12-Apr-2021
Hexavalent Chromium (s)	13-Apr-2021
Metals in solid samples by OES	13-Apr-2021
PAH by GCMS	07-Apr-2021
pH	07-Apr-2021
Sample description	02-Apr-2021
TPH CWG GC (S)	12-Apr-2021
VOC MS (S)	12-Apr-2021

ASSOCIATED AQC DATA

Cyanide Comp/Free/Total/Thiocyanate

Component	Method Code	QC 2442
Free Cyanide	TM153	**87.33** 79.00 : 115.00
Thiocyanate	TM153	**98.72** 94.09 : 113.89
Total Cyanide	TM153	**90.91** 73.07 : 107.47

GRO by GC-FID (S)

Component	Method Code	QC 2454
QC	TM089	**95.94** 70.75 : 114.19

Hexavalent Chromium (S)

Component	Method Code	QC 2419
Hexavalent Chromium	TM151	**104.0** 92.00 : 111.20

Metals in solid samples by OES

Component	Method Code	QC 2473
Aluminium	TM181	**98.23** 73.56 : 108.85
Antimony	TM181	**96.34** 76.89 : 111.24
Arsenic	TM181	**104.65** 88.53 : 111.01
Barium	TM181	**104.59** 77.67 : 105.35
Beryllium	TM181	**105.22** 85.44 : 109.61
Boron	TM181	**91.4** 73.51 : 104.66
Cadmium	TM181	**98.77** 77.67 : 104.12
Chromium	TM181	**85.6** 79.64 : 105.83
Cobalt	TM181	**94.03** 84.60 : 104.13
Copper	TM181	**99.12** 82.40 : 105.45
Iron	TM181	**103.17** 82.95 : 110.58
Lead	TM181	**93.92** 78.24 : 104.05

Metals in solid samples by OES

		QC 2473
Manganese	TM181	**106.39** 94.29 : 119.51
Mercury	TM181	**92.75** 83.16 : 107.81
Molybdenum	TM181	**101.23** 87.11 : 106.87
Nickel	TM181	**89.98** 80.26 : 102.28
Phosphorus	TM181	**111.11** 94.56 : 124.28
Selenium	TM181	**103.53** 82.28 : 110.48
Strontium	TM181	**92.2** 79.13 : 102.79
Thallium	TM181	**104.42** 82.94 : 111.86
Tin	TM181	**100.38** 86.72 : 110.03
Titanium	TM181	**84.73** 66.23 : 102.06
Vanadium	TM181	**99.63** 86.19 : 109.45
Zinc	TM181	**100.0** 84.68 : 113.99

PAH by GCMS

Component	Method Code	QC 2451
Acenaphthene	TM218	**92.5** 78.59 : 112.16
Acenaphthylene	TM218	**92.0** 75.11 : 109.01
Anthracene	TM218	**96.0** 73.99 : 113.85
Benz(a)anthracene	TM218	**112.5** 69.31 : 119.18
Benzo(a)pyrene	TM218	**104.5** 66.97 : 114.92
Benzo(b)fluoranthene	TM218	**103.5** 67.41 : 114.46
Benzo(ghi)perylene	TM218	**98.5** 62.92 : 114.36
Benzo(k)fluoranthene	TM218	**109.0** 69.98 : 116.49
Chrysene	TM218	**111.5** 69.86 : 114.50
Dibenzo(ah)anthracene	TM218	**100.5** 64.54 : 115.22
Fluoranthene	TM218	**107.0** 72.56 : 111.70
Fluorene	TM218	**94.0** 79.13 : 111.49
Indeno(123cd)pyrene	TM218	**104.5** 61.22 : 113.25

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

PAH by GC/MS

		QC 2451
Naphthalene	TM218	**86.0** 77.96 : 110.91
Phenanthrene	TM218	**101.0** 76.83 : 113.25
Pyrene	TM218	**105.0** 72.45 : 110.77

pH

Component	Method Code	QC 2491
pH	TM133	**100.66** 99.08 : 102.24

VOC MS (S)

Component	Method Code	QC 2404
1,1,1,2-tetrachloroethane	TM116	**99.4** 84.84 : 116.25
1,1,1-Trichloroethane	TM116	**101.0** 73.73 : 118.05
1,1,2-Trichloroethane	TM116	**96.0** 77.12 : 116.04
1,1-Dichloroethane	TM116	**106.6** 74.46 : 129.15
1,2-Dichloroethane	TM116	**107.0** 92.38 : 131.65
1,4-Dichlorobenzene	TM116	**100.0** 83.64 : 126.18
2-Chlorotoluene	TM116	**94.2** 76.03 : 113.25
4-Chlorotoluene	TM116	**90.6** 66.90 : 112.46
Benzene	TM116	**103.2** 88.60 : 113.80
Carbon Disulphide	TM116	**100.0** 74.91 : 122.14
Carbontetrachloride	TM116	**103.0** 80.31 : 124.50
Chlorobenzene	TM116	**100.2** 83.81 : 114.18
Chloroform	TM116	**106.6** 87.40 : 122.49
Chloromethane	TM116	**109.4** 65.89 : 136.93
Cis-1,2-Dichloroethene	TM116	**105.2** 80.67 : 126.72
Dibromomethane	TM116	**94.8** 73.23 : 118.35
Dichloromethane	TM116	**109.6** 81.11 : 133.25

		QC 2404
Ethylbenzene	TM116	**93.4** 75.92 : 110.41
Hexachlorobutadiene	TM116	**72.4** 12.82 : 152.73
Isopropylbenzene	TM116	**85.4** 55.79 : 97.59
Naphthalene	TM116	**96.4** 80.86 : 128.81
o-Xylene	TM116	**90.6** 69.99 : 108.74
p/m-Xylene	TM116	**88.7** 68.32 : 108.91
Sec-Butylbenzene	TM116	**80.0** 38.50 : 101.50
Tetrachloroethene	TM116	**100.2** 76.95 : 121.02
Toluene	TM116	**94.8** 74.24 : 107.42
Trichloroethene	TM116	**97.2** 85.28 : 109.36
Trichlorofluoromethane	TM116	**101.6** 84.55 : 133.27
Vinyl Chloride	TM116	**112.8** 68.02 : 143.37

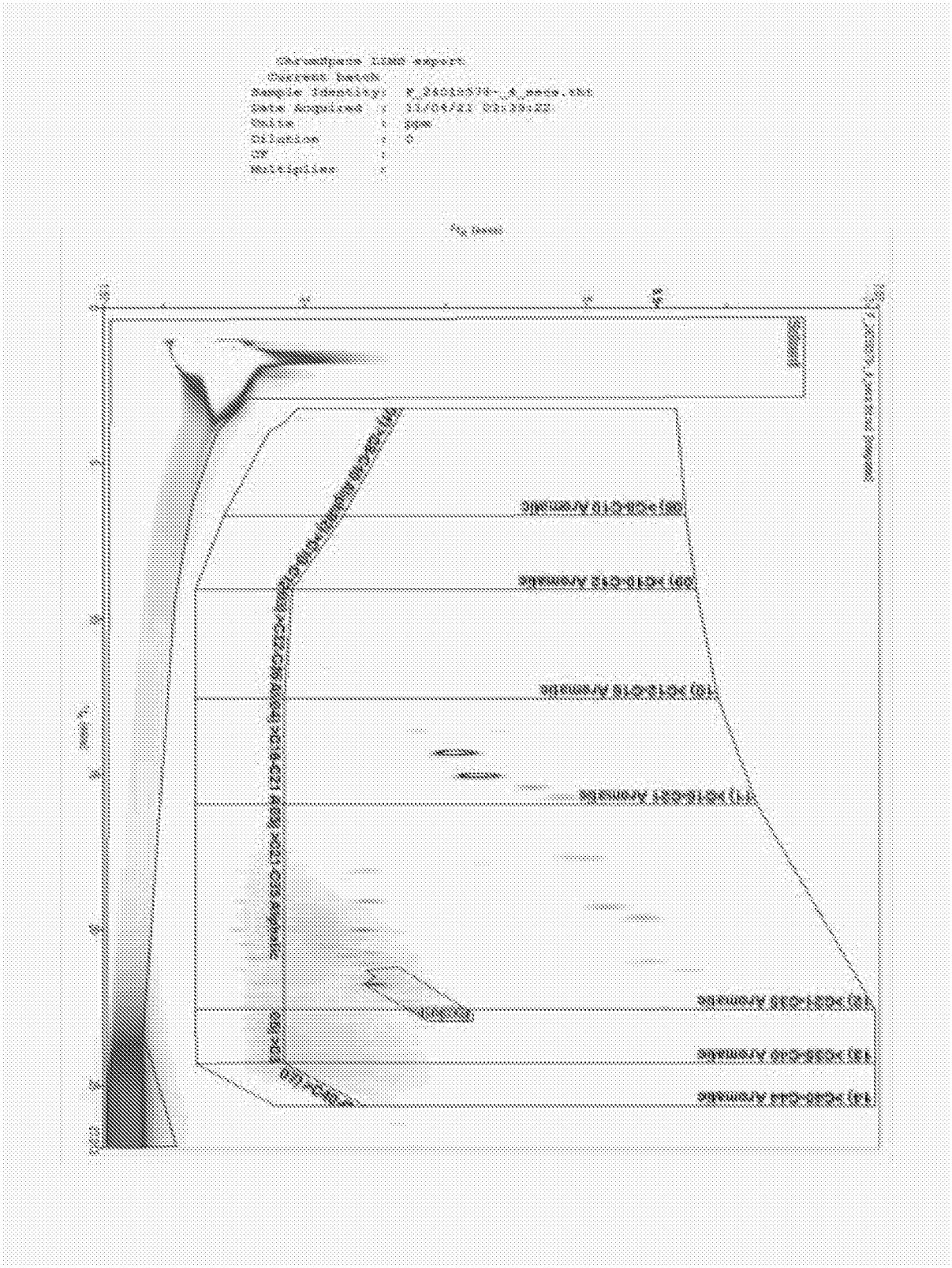
The above information details the reference name of the analytical quality control sample (AQC) that has been run with the samples contained in this report for the different methods of analysis .
The figure detailed is the percentage recovery result for the AQC .
The subscript numbers below are the percentage recovery lower control limit (LCL) and the upper control limit (UCL). The percentage recovery result for the AQC should be between these limits to be statistically in control .

CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos .	**Superseded Report:**	

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 24018578 **Depth :** 0.00 - 0.52
Sample ID : ES11 (Plot 18)

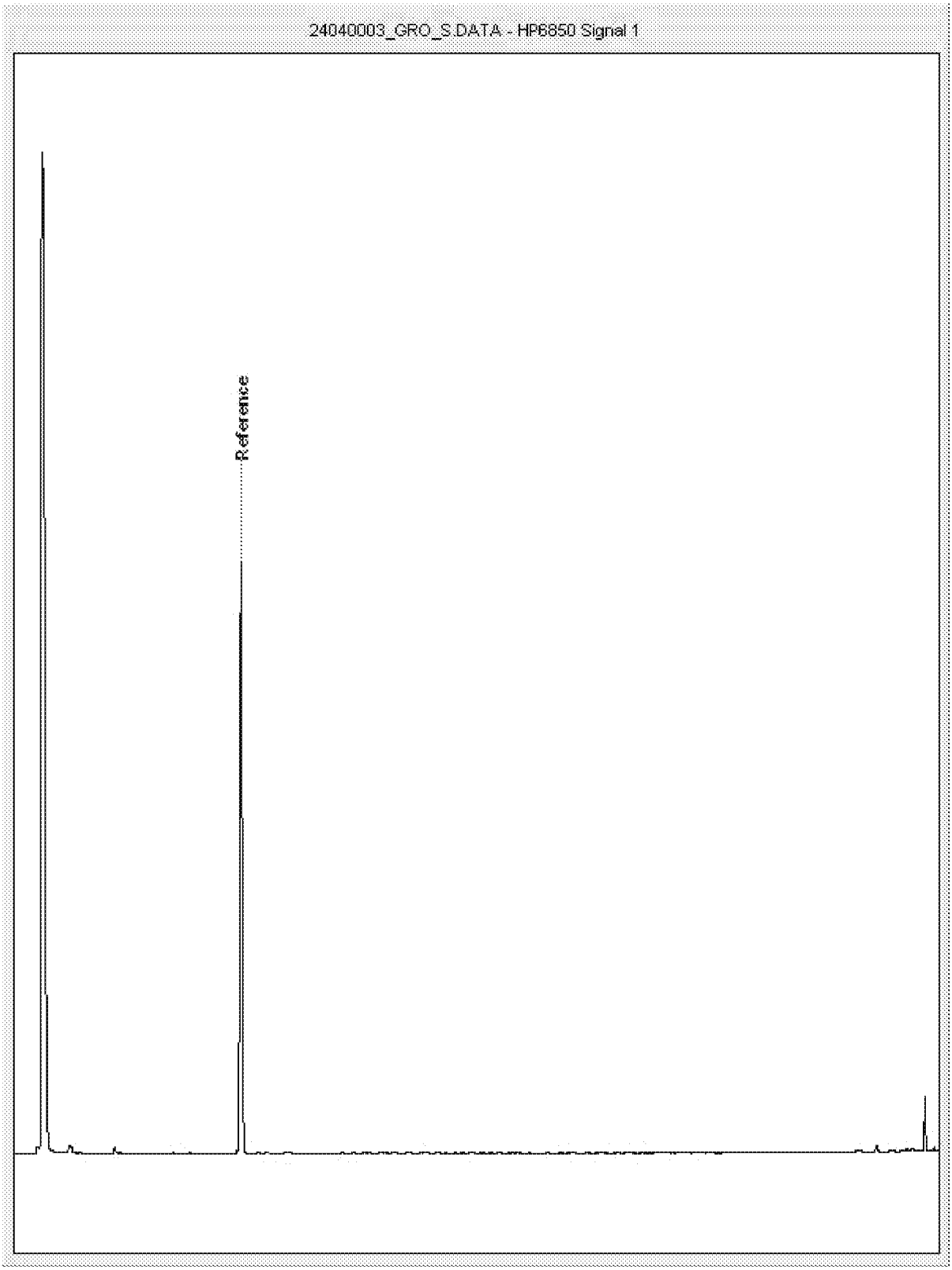


CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos -	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 24040003 **Depth :** 0.00 - 0.52
Sample ID : ES11 (Plot 18)

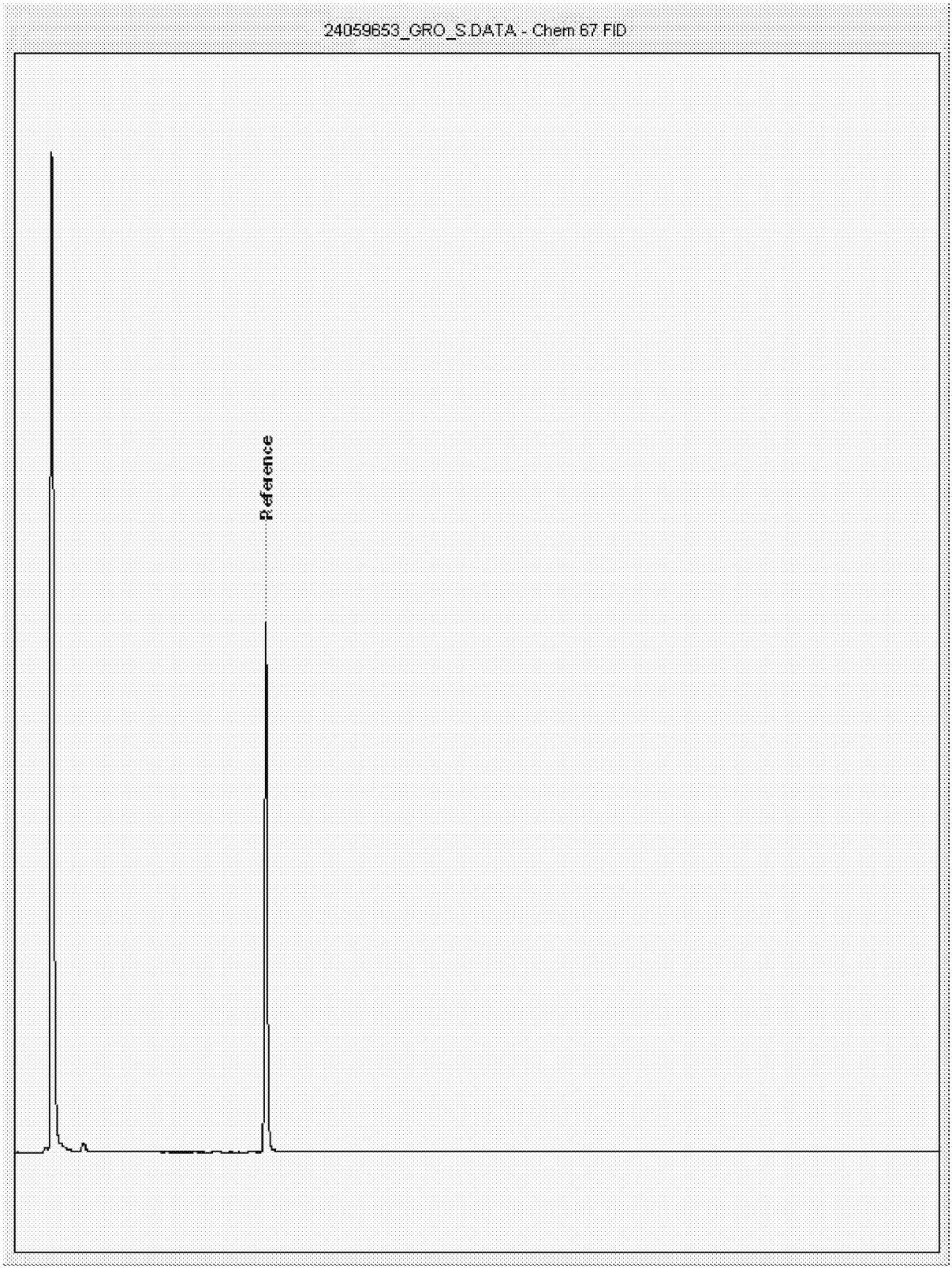


CERTIFICATE OF ANALYSIS

SDG:	210401-67	**Client Reference:**	784-AA111089-1	**Report Number:**	593863
Location:	Windroos	**Order Number:**	784-A111089-1 Windroos .	**Superseded Report:**	

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 24059653 **Depth :** 0.00 - 0.52
Sample ID : ES11 (Plot 18)



Appendix General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

18. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
*	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
$	**Sampled on date not provided**

19. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.
Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017).*

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

Annex E: Soil Screening Results

ARUN DISTRICT COUNCIL LU/150/21/DOC

Sample Identity	England and Wales (mg/kg) where Soil Organic Matter >1%		ES1 (P1)	ES1 (P70)
Depth (m bgl)			0.10-0.20	0.05-0.20
Reference		Screen Value	ES3	ES4
Sample Date	Units	Residential (with plant uptake)	14/09/2020	14/09/2020
pH		<5, >9	8.48	8.39
Asbestos	%	Presence	Not Present	Not Present
			---	---
HEAVY METALS/METALLOIDS			---	---
Arsenic	mg/kg	37	11.1	11.5
Cadmium	mg/kg	22	0.138	0.697
Chromium (III)	mg/kg	910	20.1	18.6
Chromium (VI)	mg/kg	21	<0.6	<0.6
Lead	mg/kg	200	89.1	286
Mercury (Elemental)	mg/kg	1.2	---	---
Mercury (Inorganic)	mg/kg	40	<0.14	<0.14
Mercury (Methyl)	mg/kg	11	---	---
Nickel	mg/kg	130	15.4	29.2
Selenium	mg/kg	250	<1	<1
Berylium	mg/kg	1.7	0.578	0.692
Boron	mg/kg	290	---	---
Vanadium	mg/kg	410	34.3	33
Copper	mg/kg	2,400	20.8	29.7
Zinc	mg/kg	3,700	92.8	116
			---	---
GENERAL INORGANICS			---	---
Easily Liberatable Cyanide (free)	mg/kg	24	<0.5	<0.5
			---	---
US EPA PRIORITY PAHs			---	---
Acenaphthene	mg/kg	210	0.0792	<0.04
Acenaphthylene	mg/kg	170	0.143	0.0939
Anthracene	mg/kg	2,400	0.363	0.151
Benzo(a)anthracene	mg/kg	7.2	1.58	0.868
Benzo(b)fluoranthene	mg/kg	2.6	1.43	1.18
Benzo(k)fluoranthene	mg/kg	77	0.901	0.522
Benzo(g,h,i)perylene	mg/kg	320	1.05	0.704
Benzo(a)pyrene	mg/kg	5	1.66	1.06
Chrysene	mg/kg	15	1.43	0.836
Di-benzo(a,h)anthracene	mg/kg	0.24	0.204	<0.115
Fluoranthene	mg/kg	280	2.82	1.35
Fluorene	mg/kg	170	0.118	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	27	1.05	0.742
Naphthalene	mg/kg	2.3	<0.045	<0.045
Phenanthrene	mg/kg	95	1.15	0.383
Pyrene	mg/kg	620	2.56	1.28
			---	---
TPH			---	---
TPH Aliphatic >C5-6	mg/kg	42	<0.01	<0.01
TPH Aliphatic >C6-8	mg/kg	100	<0.01	<0.01
TPH Aliphatic >C8-10	mg/kg	27	<0.01	<0.01
TPH Aliphatic >C10-12	mg/kg	130 (48)vap	<1	<1
TPH Aliphatic >C12-16	mg/kg	1,100 (24)sol	<1	<1
TPH Aliphatic >C16-35	mg/kg	65,000 (8.48)sol	---	---
TPH Aliphatic >C35-44	mg/kg	65,000 (8.48)sol	---	---
TPH Aromatic >EC5-7 (Benzene)	mg/kg	0.2	<0.01	<0.01
TPH Aromatic >EC7-8	mg/kg	130	<0.01	<0.01
TPH Aromatic >EC8-10	mg/kg	34	<0.01	<0.01
TPH Aromatic >EC10-12	mg/kg	74	---	---
TPH Aromatic >EC12-16	mg/kg	140	---	---
TPH Aromatic >EC16-21	mg/kg	260	---	---
TPH Aromatic >EC21-35	mg/kg	1,100	---	---
TPH Aromatic >EC35-44	mg/kg	1,100	---	---
TPH Aliphatic & Aromatic >EC44-70	mg/kg	1,600	---	---
Total TPH	mg/kg	No Sum	---	---
			---	---
BTEX			---	---
Benzene	mg/kg	0.2	<0.09	<0.009
Toluene	mg/kg	130	<0.07	<0.007
Ethylbenzene	mg/kg	47	<0.04	<0.004
m-Xylene	mg/kg	59	<0.1	<0.01
o-Xylene	mg/kg	60	<0.1	<0.01
p-Xylene	mg/kg	56	<0.1	<0.01

Xylenes (mixed isomers)	mg/kg	56	<0.1	<0.01
			---	---

Additional Tests

CWG				
Aliphatics >C16-C21	µg/kg		<1000	<1000
Aliphatics >C21-C35	µg/kg		10000	11000
Aliphatics >C35-C44	µg/kg		2790	5740
Aromatics > EC10-EC12	µg/kg		<1000	<1000
Aromatics > EC12-EC16	µg/kg		<1000	1280
Aromatics > EC16-EC21	µg/kg		10800	22300
Aromatics > EC21-EC35	µg/kg		47400	75100
Aromatics > EC40-EC44	µg/kg		2700	4390
Aromatics >EC35-EC44	µg/kg		7030	12200
GRO Surrogate % recovery**	%		99.6	88.9
Total Aliphatics & Aromatics >C10-C44	µg/kg		79400	129000
Total Aliphatics & Aromatics >C5-C44	µg/kg		79400	129000
Total Aliphatics >C10-C44	µg/kg		13900	18100
Total Aromatics > EC10-EC44	µg/kg		65500	111000
INORGANICS				
Amosite (Brown) Asbestos	No units		Not Detected	Not Detected
Analysed By	No units		James Richards	James Richards
Chrysotile (White) Asbestos	No units		Not Detected	Not Detected
Colour	No units		Light Brown	Light Brown
Comments	No units		-	-
Crocidolite (Blue) Asbestos	No units		Not Detected	Not Detected
Date of Analysis	No units		18/09/2020	18/09/2020
Description	No units		Sandy Loam	Sandy Loam
Fibrous Actinolite	No units		Not Detected	Not Detected
Fibrous Anthophyllite	No units		Not Detected	Not Detected
Fibrous Tremolite	No units		Not Detected	Not Detected
Inclusion 1)	No units		Stones	Stones
Inclusion 2)	No units		None	None
Non-Asbestos Fibre	No units		Not Detected	Not Detected
METALS				
Boron	mg/kg		9.56	8.19
Chromium	mg/kg		20.1	18.6
PAH				
Acenaphthene-d10 % recovery**	%		93.9	91.5
Chrysene-d12 % recovery**	%		81.6	75.9
Naphthalene-d8 % recovery**	%		90.3	85.1
PAH, Total Detected USEPA 16	µg/kg		16500	9170
Perylene-d12 % recovery**	%		79.6	74
Phenanthrene-d10 % recovery**	%		89.4	85.7
PHYSICAL				
oisture Content Ratio (% of as received sampl	%		12	13
VOC				
4-Bromofluorobenzene**	%		97.1	71.4
Dibromofluoromethane**	%		118	128
GRO >C5-C10	µg/kg		<20	<20
Methyl Tertiary Butyl Ether	µg/kg		<100	<10
Sum of BTEX	µg/kg		<400	<40
Sum of Detected Xylenes	mg/kg		<0.2	<0.02
Toluene-d8**	%		99.6	96.9
Total Aliphatics >C5-C10	µg/kg		<50	<50
Total Aromatics >EC5-EC10	µg/kg		<50	<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity		England and Wales (mg/kg) where Soil Organic Matter >1%	ES4 (FYD)
Depth (m bgl)			0.05-0.20
Reference		Screen Value	ES4
Sample Date	Units	POS Residential	14/09/2020
pH		<5, >9	8.39
Asbestos	%	Presence	Not Present

HEAVY METALS/METALLOIDS			---
Arsenic	mg/kg	79	11.5
Cadmium	mg/kg	220	0.697
Chromium (III)	mg/kg	1,500	18.6
Chromium (VI)	mg/kg	21	<0.6
Lead	mg/kg	630	286
Mercury (Elemental)	mg/kg	16	---
Mercury (Inorganic)	mg/kg	120	<0.14
Mercury (Methyl)	mg/kg	40	---
Nickel	mg/kg	230	29.2
Selenium	mg/kg	1,100	<1
Berylium	mg/kg	2.2	0.692
Boron	mg/kg	21,000	---
Vanadium	mg/kg	2,000	33
Copper	mg/kg	12,000	29.7
Zinc	mg/kg	81,000	116

GENERAL INORGANICS			---
Easily Liberatable Cyanide (free)	mg/kg	36	<0.5

US EPA PRIORITY PAHs			---
Acenaphthene	mg/kg	15,000	<0.04
Acenaphthylene	mg/kg	15,000	0.0939
Anthracene	mg/kg	74,000	0.151
Benzo(a)anthracene	mg/kg	29	0.868
Benzo(b)fluoranthene	mg/kg	7.1	1.18
Benzo(k)fluoranthene	mg/kg	190	0.522
Benzo(g,h,i)perylene	mg/kg	640	0.704
Benzo(a)pyrene	mg/kg	10	1.06
Chrysene	mg/kg	57	0.836
Di-benzo(a,h)anthracene	mg/kg	0.57	<0.115
Fluoranthene	mg/kg	3,100	1.35
Fluorene	mg/kg	9,900	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	82	0.742
Naphthalene	mg/kg	4,900	<0.045
Phenanthrene	mg/kg	3,100	0.383
Pyrene	mg/kg	7,400	1.28

TPH			---
TPH Aliphatic >C5-6	mg/kg	570,000 (304)sol	<0.01
TPH Aliphatic >C6-8	mg/kg	600,000	<0.01
TPH Aliphatic >C8-10	mg/kg	13,000	<0.01
TPH Aliphatic >C10-12	mg/kg	13,000	<1
TPH Aliphatic >C12-16	mg/kg	13,000	<1
TPH Aliphatic >C16-35	mg/kg	250,000	---
TPH Aliphatic >C35-44	mg/kg	250,000	5.74
TPH Aromatic >EC5-7 (Benzene)	mg/kg	140	<0.01
TPH Aromatic >EC7-8	mg/kg	56,000	<0.01
TPH Aromatic >EC8-10	mg/kg	5,000	<0.01
TPH Aromatic >EC10-12	mg/kg	5,000	<1
TPH Aromatic >EC12-16	mg/kg	5,100	1.28
TPH Aromatic >EC16-21	mg/kg	3,800	22.3
TPH Aromatic >EC21-35	mg/kg	3,800	75.1
TPH Aromatic >EC35-44	mg/kg	3,800	12.2
TPH Aliphatic & Aromatic >EC44-70	mg/kg	3,800	---
Total TPH	mg/kg	No Sum	129

BTEX			---
Benzene	mg/kg	140	<0.009
Toluene	mg/kg	56,000	<0.007
Ethylbenzene	mg/kg	24,000	<0.004
m-Xylene	mg/kg	41,000	<0.01
o-Xylene	mg/kg	41,000	<0.01
p-Xylene	mg/kg	41,000	<0.01

Xylenes (mixed isomers)	mg/kg	41,000	<0.01

Additional Tests

GWG			
Aliphatics >C16-C21	µg/kg		<1000
Aliphatics >C21-C35	µg/kg		11000
Aromatics > EC40-EC44	µg/kg		4390
GRO Surrogate % recovery**	%		88.9
Total Aliphatics & Aromatics >C5-C44	µg/kg		129000
Total Aliphatics >C10-C44	µg/kg		18100
Total Aromatics > EC10-EC44	µg/kg		111000
INORGANICS			
Amosite (Brown) Asbestos	No units		Not Detected
Analysed By	No units		James Richards
Chrysotile (White) Asbestos	No units		Not Detected
Colour	No units		Light Brown
Comments	No units		-
Crocidolite (Blue) Asbestos	No units		Not Detected
Date of Analysis	No units		18/09/2020
Description	No units		Sandy Loam
Fibrous Actinolite	No units		Not Detected
Fibrous Anthophyllite	No units		Not Detected
Fibrous Tremolite	No units		Not Detected
Inclusion 1)	No units		Stones
Inclusion 2)	No units		None
Non-Asbestos Fibre	No units		Not Detected
METALS			
Boron	mg/kg		8.19
Chromium	mg/kg		18.6
PAH			
Acenaphthene-d10 % recovery**	%		91.5
Chrysene-d12 % recovery**	%		75.9
Naphthalene-d8 % recovery**	%		85.1
PAH, Total Detected USEPA 16	µg/kg		9170
Perylene-d12 % recovery**	%		74
Phenanthrene-d10 % recovery**	%		85.7
PHYSICAL			
oisture Content Ratio (% of as received sampl	%		13
VOC			
4-Bromofluorobenzene**	%		71.4
Dibromofluoromethane**	%		128
GRO >C5-C10	µg/kg		<20
Methyl Tertiary Butyl Ether	µg/kg		<10
Sum of BTEX	µg/kg		<40
Sum of Detected Xylenes	mg/kg		<0.02
Toluene-d8**	%		96.9
Total Aliphatics >C5-C10	µg/kg		<50
Total Aromatics >EC5-EC10	µg/kg		<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity	England and Wales (mg/kg) where	ES8 (P7d)
Depth (m bgl)	Soil Organic Matter >1%	0.00-0.15
Reference	Screen Value	8
Sample Date	Units	Residential (with plant uptake)	19/10/2020
---	---	---	---
pH		<5, >9	8.19
Asbestos	%	Presence	Not Present

HEAVY METALS/METALLOIDS			---
Arsenic	mg/kg	37	15.5
Cadmium	mg/kg	22	0.211
Chromium (III)	mg/kg	910	18
Chromium (VI)	mg/kg	21	<0.6
Lead	mg/kg	200	91.1
Mercury (Elemental)	mg/kg	1.2	---
Mercury (Inorganic)	mg/kg	40	<0.14
Mercury (Methyl)	mg/kg	11	---
Nickel	mg/kg	130	16.5
Selenium	mg/kg	250	<1
Berylium	mg/kg	1.7	0.641
Boron	mg/kg	290	---
Vanadium	mg/kg	410	30
Copper	mg/kg	2,400	28.2
Zinc	mg/kg	3,700	122

GENERAL INORGANICS			---
Easily Liberatable Cyanide (free)	mg/kg	24	<0.5

US EPA PRIORITY PAHs			---
Acenaphthene	mg/kg	210	<0.04
Acenaphthylene	mg/kg	170	0.157
Anthracene	mg/kg	2,400	0.398
Benzo(a)anthracene	mg/kg	7.2	1.34
Benzo(b)fluoranthene	mg/kg	2.6	1.35
Benzo(k)fluoranthene	mg/kg	77	0.667
Benzo(g,h,i)perylene	mg/kg	320	0.981
Benzo(a)pyrene	mg/kg	5	1.38
Chrysene	mg/kg	15	1.39
Di-benzo(a,h)anthracene	mg/kg	0.24	0.144
Fluoranthene	mg/kg	280	3.11
Fluorene	mg/kg	170	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	27	0.867
Naphthalene	mg/kg	2.3	<0.045
Phenanthrene	mg/kg	95	0.773
Pyrene	mg/kg	620	2.9

TPH			---
TPH Aliphatic >C5-6	mg/kg	42	<0.01
TPH Aliphatic >C6-8	mg/kg	100	<0.01
TPH Aliphatic >C8-10	mg/kg	27	<0.01
TPH Aliphatic >C10-12	mg/kg	130 (48)vap	<1
TPH Aliphatic >C12-16	mg/kg	1,100 (24)sol	<1
TPH Aliphatic >C16-35	mg/kg	65,000 (8.48)sol	---
TPH Aliphatic >C35-44	mg/kg	65,000 (8.48)sol	3.22
TPH Aromatic >EC5-7 (Benzene)	mg/kg	0.2	<0.01
TPH Aromatic >EC7-8	mg/kg	130	<0.01
TPH Aromatic >EC8-10	mg/kg	34	<0.01
TPH Aromatic >EC10-12	mg/kg	74	<1
TPH Aromatic >EC12-16	mg/kg	140	<1
TPH Aromatic >EC16-21	mg/kg	260	3.67
TPH Aromatic >EC21-35	mg/kg	1,100	29.6
TPH Aromatic >EC35-44	mg/kg	1,100	5.56
TPH Aliphatic & Aromatic >EC44-70	mg/kg	1,600	---
Total TPH	mg/kg	No Sum	67.1

BTEX			---
Benzene	mg/kg	0.2	<0.09
Toluene	mg/kg	130	<0.07
Ethylbenzene	mg/kg	47	<0.04
m-Xylene	mg/kg	59	<0.1
o-Xylene	mg/kg	60	<0.1
p-Xylene	mg/kg	56	<0.1

Xylenes (mixed isomers)	mg/kg	56	<0.1

Other			---
Carbon Disulphide	mg/kg	0.14	---
Hexachlorobutadiene	mg/kg	0.29	---
Sum of PCDDs, PCDFs and dioxin like PCBS	mg/kg	0.008	---

Additional Tests

CWG			
Aliphatics >C16-C21	µg/kg		2150
Aliphatics >C21-C35	µg/kg		22500
Aromatics > EC40-EC44	µg/kg		<1000
GRO Surrogate % recovery**	%		88.8
Total Aliphatics & Aromatics >C5-C44	µg/kg		67100
Total Aliphatics >C10-C44	µg/kg		28100
Total Aromatics > EC10-EC44	µg/kg		39100
INORGANICS			
Amosite (Brown) Asbestos	No units		Not Detected
Analysed By	No units		Marcin Magdziarek
Chrysotile (White) Asbestos	No units		Not Detected
Colour	No units		Dark Brown
Comments	No units		-
Crocidolite (Blue) Asbestos	No units		Not Detected
Date of Analysis	No units		27/10/2020
Description	No units		Loamy Sand
Fibrous Actinolite	No units		Not Detected
Fibrous Anthophyllite	No units		Not Detected
Fibrous Tremolite	No units		Not Detected
Inclusion 1)	No units		Stones
Inclusion 2)	No units		Vegetation
Non-Asbestos Fibre	No units		Not Detected
METALS			
Boron	mg/kg		8.63
Chromium	mg/kg		17.2
PAH			
Acenaphthene-d10 % recovery**	%		80.2
Chrysene-d12 % recovery**	%		88.7
Naphthalene-d8 % recovery**	%		92.6
PAH, Total Detected USEPA 16	µg/kg		15400
Perylene-d12 % recovery**	%		77.5
Phenanthrene-d10 % recovery**	%		82.5
PHYSICAL			
oisture Content Ratio (% of as received sampl	%		16
VOC			
4-Bromofluorobenzene**	%		86.9
Dibromofluoromethane**	%		114
GRO >C5-C10	µg/kg		<20
Methyl Tertiary Butyl Ether	µg/kg		<100
Sum of BTEX	µg/kg		<400
Sum of Detected Xylenes	mg/kg		<0.2
Toluene-d8**	%		97
Total Aliphatics >C5-C10	µg/kg		<50
Total Aromatics >EC5-EC10	µg/kg		<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity	England and Wales (mg/kg) where Soil Organic Matter >1%		ES6 (SPOS)	ES7 (SPOS)
Depth (m bgl)			0.00-0.25	0.25-0.70
Reference		Screen Value	6	7
Sample Date	Units	POS Residential	19/10/2020	19/10/2020
pH		<5, >9	7.99	8.32
Asbestos	%	Presence	Not Present	Not Present
			---	---
HEAVY METALS/METALLOIDS			---	---
Arsenic	mg/kg	79	11.3	9.21
Cadmium	mg/kg	220	0.223	0.262
Chromium (III)	mg/kg	1,500	19.3	17.2
Chromium (VI)	mg/kg	21	<0.6	<0.6
Lead	mg/kg	630	68.9	165
Mercury (Elemental)	mg/kg	16	---	---
Mercury (Inorganic)	mg/kg	120	<0.14	<0.14
Mercury (Methyl)	mg/kg	40	---	---
Nickel	mg/kg	230	19.8	16.8
Selenium	mg/kg	1,100	<1	<1
Berylium	mg/kg	2.2	0.525	0.418
Boron	mg/kg	21,000	---	---
Vanadium	mg/kg	2,000	32	28.7
Copper	mg/kg	12,000	27.5	17.8
Zinc	mg/kg	81,000	111	106
			---	---
GENERAL INORGANICS			---	---
Easily Liberatable Cyanide (free)	mg/kg	36	<0.5	<0.5
			---	---
US EPA PRIORITY PAHs			---	---
Acenaphthene	mg/kg	15,000	<0.04	<0.04
Acenaphthylene	mg/kg	15,000	0.0707	<0.06
Anthracene	mg/kg	74,000	0.123	<0.08
Benzo(a)anthracene	mg/kg	29	0.823	0.396
Benzo(b)fluoranthene	mg/kg	7.1	0.849	0.646
Benzo(k)fluoranthene	mg/kg	190	0.447	0.249
Benzo(g,h,i)perylene	mg/kg	640	0.767	0.508
Benzo(a)pyrene	mg/kg	10	0.975	0.544
Chrysene	mg/kg	57	0.788	0.351
Di-benzo(a,h)anthracene	mg/kg	0.57	0.151	<0.115
Fluoranthene	mg/kg	3,100	1.59	0.723
Fluorene	mg/kg	9,900	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	mg/kg	82	0.793	0.492
Naphthalene	mg/kg	4,900	<0.045	<0.045
Phenanthrene	mg/kg	3,100	0.441	0.204
Pyrene	mg/kg	7,400	1.45	0.66
			---	---
TPH			---	---
TPH Aliphatic >C5-6	mg/kg	570,000 (304)sol	<0.01	0.0176
TPH Aliphatic >C6-8	mg/kg	600,000	<0.01	0.0339
TPH Aliphatic >C8-10	mg/kg	13,000	<0.01	0.0398
TPH Aliphatic >C10-12	mg/kg	13,000	<1	<1
TPH Aliphatic >C12-16	mg/kg	13,000	<1	<1
TPH Aliphatic >C16-35	mg/kg	250,000	---	---
TPH Aliphatic >C35-44	mg/kg	250,000	3.3	3.18
TPH Aromatic >EC5-7 (Benzene)	mg/kg	140	<0.01	<0.01
TPH Aromatic >EC7-8	mg/kg	56,000	<0.01	<0.01
TPH Aromatic >EC8-10	mg/kg	5,000	<0.01	0.0269
TPH Aromatic >EC10-12	mg/kg	5,000	<1	<1
TPH Aromatic >EC12-16	mg/kg	5,100	<1	<1
TPH Aromatic >EC16-21	mg/kg	3,800	5.31	3.3
TPH Aromatic >EC21-35	mg/kg	3,800	33.1	54.2
TPH Aromatic >EC35-44	mg/kg	3,800	6.33	12.6
TPH Aliphatic & Aromatic >EC44-70	mg/kg	3,800	---	---
Total TPH	mg/kg	No Sum	70	90.7
			---	---
BTEX			---	---
Benzene	mg/kg	140	<0.09	<0.009
Toluene	mg/kg	56,000	<0.07	<0.007
Ethylbenzene	mg/kg	24,000	<0.04	<0.004
m-Xylene	mg/kg	41,000	<0.1	<0.01
o-Xylene	mg/kg	41,000	<0.1	<0.01
p-Xylene	mg/kg	41,000	<0.1	<0.01

Xylenes (mixed isomers)	mg/kg	41,000	<0.1	<0.01
			---	---

Additional Tests

CWG				
Aliphatics >C16-C21	µg/kg		1060	1530
Aliphatics >C21-C35	µg/kg		20700	15600
Aromatics > EC40-EC44	µg/kg		1610	6030
GRO Surrogate % recovery**	%		80.8	118
Total Aliphatics & Aromatics >C5-C44	µg/kg		70000	90800
Total Aliphatics >C10-C44	µg/kg		25100	20300
Total Aromatics > EC10-EC44	µg/kg		45000	70400
INORGANICS				
Amosite (Brown) Asbestos	No units		Not Detected	Not Detected
Analysed By	No units		Paul Poynton	para Urbanek-Walsh
Chrysotile (White) Asbestos	No units		Not Detected	Not Detected
Colour	No units		Dark Brown	Dark Brown
Comments	No units		-	-
Crocidolite (Blue) Asbestos	No units		Not Detected	Not Detected
Date of Analysis	No units		26/10/2020	28/10/2020
Description	No units		Loamy Sand	Loamy Sand
Fibrous Actinolite	No units		Not Detected	Not Detected
Fibrous Anthophyllite	No units		Not Detected	Not Detected
Fibrous Tremolite	No units		Not Detected	Not Detected
Inclusion 1)	No units		Stones	Vegetation
Inclusion 2)	No units		Vegetation	Stones
Non-Asbestos Fibre	No units		Not Detected	Not Detected
METALS				
Boron	mg/kg		8.6	11.1
Chromium	mg/kg		19.3	17.2
PAH				
Acenaphthene-d10 % recovery**	%		80	85.3
Chrysene-d12 % recovery**	%		89.8	94.8
Naphthalene-d8 % recovery**	%		80.8	92.7
PAH, Total Detected USEPA 16	µg/kg		9270	4770
Perylene-d12 % recovery**	%		81.3	87.8
Phenanthrene-d10 % recovery**	%		82.6	93.2
PHYSICAL				
oisture Content Ratio (% of as received sampl	%		12	15
VOC				
4-Bromofluorobenzene**	%		87.6	70.6
Dibromofluoromethane**	%		111	113
GRO >C5-C10	µg/kg		<20	91.3
Methyl Tertiary Butyl Ether	µg/kg		<100	<10
Sum of BTEX	µg/kg		<400	<40
Sum of Detected Xylenes	mg/kg		<0.2	<0.02
Toluene-d8**	%		96.9	90.5
Total Aliphatics >C5-C10	µg/kg		<50	91.3
Total Aromatics >EC5-EC10	µg/kg		<50	<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity	England and Wales (mg/kg) where		ES8 (PSD)
Depth (m bgl)	Soil Organic Matter >1%		0.05-0.20
Reference		Screen Value	HA0008/1830
Sample Date	Units	Residential (with plant uptake)	10/11/2020
pH		<5, >9	7.87
Asbestos	%	Presence	Not Present

HEAVY METALS/METALLOIDS			---
Arsenic	mg/kg	37	9.52
Cadmium	mg/kg	22	0.588
Chromium (III)	mg/kg	910	16.4
Chromium (VI)	mg/kg	21	<0.6
Lead	mg/kg	200	57.7
Mercury (Elemental)	mg/kg	1.2	---
Mercury (Inorganic)	mg/kg	40	<0.14
Mercury (Methyl)	mg/kg	11	---
Nickel	mg/kg	130	13.6
Selenium	mg/kg	250	<1
Berylium	mg/kg	1.7	0.572
Boron	mg/kg	290	---
Vanadium	mg/kg	410	28.6
Copper	mg/kg	2,400	20.2
Zinc	mg/kg	3,700	129

GENERAL INORGANICS			---
Easily Liberatable Cyanide (free)	mg/kg	24	<0.5

US EPA PRIORITY PAHs			---
Acenaphthene	mg/kg	210	0.0274
Acenaphthylene	mg/kg	170	0.0281
Anthracene	mg/kg	2,400	0.0954
Benzo(a)anthracene	mg/kg	7.2	0.474
Benzo(b)fluoranthene	mg/kg	2.6	0.684
Benzo(k)fluoranthene	mg/kg	77	0.226
Benzo(g,h,i)perylene	mg/kg	320	0.358
Benzo(a)pyrene	mg/kg	5	0.511
Chrysene	mg/kg	15	0.482
Di-benzo(a,h)anthracene	mg/kg	0.24	0.0611
Fluoranthene	mg/kg	280	0.915
Fluorene	mg/kg	170	0.0229
Indeno(1,2,3-cd)pyrene	mg/kg	27	0.347
Naphthalene	mg/kg	2.3	<0.009
Phenanthrene	mg/kg	95	0.355
Pyrene	mg/kg	620	0.827

TPH			---
TPH Aliphatic >C5-6	mg/kg	42	<0.01
TPH Aliphatic >C6-8	mg/kg	100	<0.01
TPH Aliphatic >C8-10	mg/kg	27	<0.01
TPH Aliphatic >C10-12	mg/kg	130 (48)vap	<1
TPH Aliphatic >C12-16	mg/kg	1,100 (24)sol	<1
TPH Aliphatic >C16-35	mg/kg	65,000 (8.48)sol	---
TPH Aliphatic >C35-44	mg/kg	65,000 (8.48)sol	1.31
TPH Aromatic >EC5-7 (Benzene)	mg/kg	0.2	<0.01
TPH Aromatic >EC7-8	mg/kg	130	<0.01
TPH Aromatic >EC8-10	mg/kg	34	<0.01
TPH Aromatic >EC10-12	mg/kg	74	<1
TPH Aromatic >EC12-16	mg/kg	140	<1
TPH Aromatic >EC16-21	mg/kg	260	9.67
TPH Aromatic >EC21-35	mg/kg	1,100	31.1
TPH Aromatic >EC35-44	mg/kg	1,100	3
TPH Aliphatic & Aromatic >EC44-70	mg/kg	1,600	---
Total TPH	mg/kg	No Sum	59.2

BTEX			---
Benzene	mg/kg	0.2	<0.09
Toluene	mg/kg	130	<0.07
Ethylbenzene	mg/kg	47	<0.04
m-Xylene	mg/kg	59	<0.1
o-Xylene	mg/kg	60	<0.1
p-Xylene	mg/kg	56	<0.1

Xylenes (mixed isomers)	mg/kg	56	<0.1

Additional Tests

CWG			
Aliphatics >C16-C21	µg/kg		<1000
Aliphatics >C21-C35	µg/kg		12900
Aromatics > EC40-EC44	µg/kg		<1000
GRO Surrogate % recovery**	%		108
Total Aliphatics & Aromatics >C5-C44	µg/kg		59200
Total Aliphatics >C10-C44	µg/kg		15400
Total Aromatics > EC10-EC44	µg/kg		43800
INORGANICS			
Amosite (Brown) Asbestos	No units		Not Detected
Analysed By	No units		para Urbanek-Walsh
Chrysotile (White) Asbestos	No units		Not Detected
Colour	No units		Dark Brown
Comments	No units		-
Crocidolite (Blue) Asbestos	No units		Not Detected
Date of Analysis	No units		18/11/2020
Description	No units		Loamy Sand
Fibrous Actinolite	No units		Not Detected
Fibrous Anthophyllite	No units		Not Detected
Fibrous Tremolite	No units		Not Detected
Inclusion 1)	No units		Stones
Inclusion 2)	No units		Vegetation
Non-Asbestos Fibre	No units		Not Detected
METALS			
Boron	mg/kg		8.37
Chromium	mg/kg		16.4
PAH			
Acenaphthene-d10 % recovery**	%		89.5
Chrysene-d12 % recovery**	%		100
Naphthalene-d8 % recovery**	%		88.3
PAH, Total Detected USEPA 16	µg/kg		5410
Perylene-d12 % recovery**	%		102
Phenanthrene-d10 % recovery**	%		94.6
PHYSICAL			
oisture Content Ratio (% of as received sampl	%		14
VOC			
4-Bromofluorobenzene**	%		93.1
Dibromofluoromethane**	%		117
GRO >C5-C10	µg/kg		<20
Methyl Tertiary Butyl Ether	µg/kg		<100
Sum of BTEX	µg/kg		<400
Sum of Detected Xylenes	mg/kg		<0.2
Toluene-d8**	%		100
Total Aliphatics >C5-C10	µg/kg		<50
Total Aromatics >EC5-EC10	µg/kg		<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity	England and Wales (mg/kg) where		ES10 (LPOS)
Depth (m bgl)	Soil Organic Matter >1%		0.05-0.50
Reference		Screen Value	10
Sample Date	Units	Residential (with plant uptake)	02/03/2021
pH		<5, >9	7.93
Asbestos	%	Presence	Not Present

HEAVY METALS/METALLOIDS			---
Arsenic	mg/kg	37	8.17
Cadmium	mg/kg	22	0.28
Chromium (III)	mg/kg	910	12.8
Chromium (VI)	mg/kg	21	<0.6
Lead	mg/kg	200	72.3
Mercury (Elemental)	mg/kg	1.2	---
Mercury (Inorganic)	mg/kg	40	<0.1
Mercury (Methyl)	mg/kg	11	---
Nickel	mg/kg	130	13.1
Selenium	mg/kg	250	<1
Berylium	mg/kg	1.7	0.523
Boron	mg/kg	290	---
Vanadium	mg/kg	410	23.8
Copper	mg/kg	2,400	25.5
Zinc	mg/kg	3,700	121

GENERAL INORGANICS			---
Easily Liberatable Cyanide (free)	mg/kg	24	<0.5

US EPA PRIORITY PAHs			---
Acenaphthene	mg/kg	210	<0.08
Acenaphthylene	mg/kg	170	<0.12
Anthracene	mg/kg	2,400	<0.16
Benzo(a)anthracene	mg/kg	7.2	0.363
Benzo(b)fluoranthene	mg/kg	2.6	0.588
Benzo(k)fluoranthene	mg/kg	77	0.187
Benzo(g,h,i)perylene	mg/kg	320	0.305
Benzo(a)pyrene	mg/kg	5	0.387
Chrysene	mg/kg	15	0.348
Di-benzo(a,h)anthracene	mg/kg	0.24	<0.23
Fluoranthene	mg/kg	280	0.676
Fluorene	mg/kg	170	<0.1
Indeno(1,2,3-cd)pyrene	mg/kg	27	0.367
Naphthalene	mg/kg	2.3	<0.09
Phenanthrene	mg/kg	95	0.198
Pyrene	mg/kg	620	0.587

TPH			---
TPH Aliphatic >C5-6	mg/kg	42	<0.01
TPH Aliphatic >C6-8	mg/kg	100	<0.01
TPH Aliphatic >C8-10	mg/kg	27	<0.01
TPH Aliphatic >C10-12	mg/kg	130 (48)vap	<1
TPH Aliphatic >C12-16	mg/kg	1,100 (24)sol	<1
TPH Aliphatic >C16-35	mg/kg	65,000 (8.48)sol	---
TPH Aliphatic >C35-44	mg/kg	65,000 (8.48)sol	2.21
TPH Aromatic >EC5-7 (Benzene)	mg/kg	0.2	<0.01
TPH Aromatic >EC7-8	mg/kg	130	<0.01
TPH Aromatic >EC8-10	mg/kg	34	<0.01
TPH Aromatic >EC10-12	mg/kg	74	<1
TPH Aromatic >EC12-16	mg/kg	140	<1
TPH Aromatic >EC16-21	mg/kg	260	2.78
TPH Aromatic >EC21-35	mg/kg	1,100	27.6
TPH Aromatic >EC35-44	mg/kg	1,100	9.51
TPH Aliphatic & Aromatic >EC44-70	mg/kg	1,600	---
Total TPH	mg/kg	No Sum	56.5

BTEX			---
Benzene	mg/kg	0.2	<0.009
Toluene	mg/kg	130	<0.007
Ethylbenzene	mg/kg	47	<0.004
m-Xylene	mg/kg	59	<0.01
o-Xylene	mg/kg	60	<0.01
p-Xylene	mg/kg	56	<0.01

Xylenes (mixed isomers)	mg/kg	56	<0.01

Additional Tests

GWG			
Aliphatics >C16-C21	µg/kg		1670
Aliphatics >C21-C35	µg/kg		12000
Aromatics > EC40-EC44	µg/kg		1500
GRO Surrogate % recovery**	%		85
Total Aliphatics & Aromatics >C5-C44	µg/kg		56500
Total Aliphatics >C10-C44	µg/kg		16400
Total Aromatics > EC10-EC44	µg/kg		40000
INORGANICS			
Amosite (Brown) Asbestos	No units		Not Detected
Analysed By	No units		James Richards
Chrysotile (White) Asbestos	No units		Not Detected
Colour	No units		Dark Brown
Comments	No units		-
Crocidolite (Blue) Asbestos	No units		Not Detected
Date of Analysis	No units		10/03/2021
Description	No units		Sandy Clay Loam
Fibrous Actinolite	No units		Not Detected
Fibrous Anthophyllite	No units		Not Detected
Fibrous Tremolite	No units		Not Detected
Inclusion 1)	No units		Stones
Inclusion 2)	No units		None
Non-Asbestos Fibre	No units		Not Detected
METALS			
Boron	mg/kg		10.4
Chromium	mg/kg		12.8
PAH			
Acenaphthene-d10 % recovery**	%		89.2
Chrysene-d12 % recovery**	%		81.3
Naphthalene-d8 % recovery**	%		91.3
PAH, Total Detected USEPA 16	µg/kg		4010
Perylene-d12 % recovery**	%		86.8
Phenanthrene-d10 % recovery**	%		86.2
PHYSICAL			
oisture Content Ratio (% of as received sampl	%		17
VOC			
4-Bromofluorobenzene**	%		79.1
Dibromofluoromethane**	%		123
GRO >C5-C10	µg/kg		<20
Methyl Tertiary Butyl Ether	µg/kg		<10
Sum of BTEX	µg/kg		<40
Sum of Detected Xylenes	mg/kg		<0.02
Toluene-d8**	%		92.9
Total Aliphatics >C5-C10	µg/kg		<50
Total Aromatics >EC5-EC10	µg/kg		<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Sample Identity	England and Wales (mg/kg) where	ES11 (Plot 16)
Depth (m bgl)	Soil Organic Matter >1%	0.00-0.50
Reference	Screen Value	
Sample Date	Units	Residential (with plant uptake)	21/03/2021
---	---	---	---
pH		<5, >9	7.98
Asbestos	%	Presence	Not Present

HEAVY METALS/METALLOIDS			---
Arsenic	mg/kg	37	10
Cadmium	mg/kg	22	0.331
Chromium (III)	mg/kg	910	16.1
Chromium (VI)	mg/kg	21	<0.6
Lead	mg/kg	200	97.9
Mercury (Elemental)	mg/kg	1.2	---
Mercury (Inorganic)	mg/kg	40	<0.1
Mercury (Methyl)	mg/kg	11	---
Nickel	mg/kg	130	12.6
Selenium	mg/kg	250	<1
Berylium	mg/kg	1.7	0.59
Boron	mg/kg	290	---
Vanadium	mg/kg	410	29.8
Copper	mg/kg	2,400	38.1
Zinc	mg/kg	3,700	160

GENERAL INORGANICS			---
Easily Liberatable Cyanide (free)	mg/kg	24	<0.5

US EPA PRIORITY PAHs			---
Acenaphthene	mg/kg	210	0.088
Acenaphthylene	mg/kg	170	0.151
Anthracene	mg/kg	2,400	0.534
Benzo(a)anthracene	mg/kg	7.2	1.38
Benzo(b)fluoranthene	mg/kg	2.6	1.95
Benzo(k)fluoranthene	mg/kg	77	0.808
Benzo(g,h,i)perylene	mg/kg	320	0.978
Benzo(a)pyrene	mg/kg	5	1.42
Chrysene	mg/kg	15	1.28
Di-benzo(a,h)anthracene	mg/kg	0.24	0.228
Fluoranthene	mg/kg	280	2.79
Fluorene	mg/kg	170	0.161
Indeno(1,2,3-cd)pyrene	mg/kg	27	1.03
Naphthalene	mg/kg	2.3	<0.045
Phenanthrene	mg/kg	95	1.42
Pyrene	mg/kg	620	2.41

TPH			---
TPH Aliphatic >C5-6	mg/kg	42	<0.01
TPH Aliphatic >C6-8	mg/kg	100	<0.01
TPH Aliphatic >C8-10	mg/kg	27	<0.01
TPH Aliphatic >C10-12	mg/kg	130 (48)vap	<1
TPH Aliphatic >C12-16	mg/kg	1,100 (24)sol	<1
TPH Aliphatic >C16-35	mg/kg	65,000 (8.48)sol	---
TPH Aliphatic >C35-44	mg/kg	65,000 (8.48)sol	7.57
TPH Aromatic >EC5-7 (Benzene)	mg/kg	0.2	<0.01
TPH Aromatic >EC7-8	mg/kg	130	<0.01
TPH Aromatic >EC8-10	mg/kg	34	<0.01
TPH Aromatic >EC10-12	mg/kg	74	<1
TPH Aromatic >EC12-16	mg/kg	140	<1
TPH Aromatic >EC16-21	mg/kg	260	3.19
TPH Aromatic >EC21-35	mg/kg	1,100	37.5
TPH Aromatic >EC35-44	mg/kg	1,100	11.1
TPH Aliphatic & Aromatic >EC44-70	mg/kg	1,600	---
Total TPH	mg/kg	No Sum	78.3

BTEX			---
Benzene	mg/kg	0.2	<0.18
Toluene	mg/kg	130	<0.14
Ethylbenzene	mg/kg	47	<0.08
m-Xylene	mg/kg	59	<0.2
o-Xylene	mg/kg	60	<0.2
p-Xylene	mg/kg	56	<0.2

Xylenes (mixed isomers)	mg/kg	56	<0.2

Additional Tests

CWG			
Aliphatics >C16-C21	µg/kg		2420
Aliphatics >C21-C35	µg/kg		15700
Aromatics > EC40-EC44	µg/kg		2910
GRO Surrogate % recovery**	%		83.2
Total Aliphatics & Aromatics >C5-C44	µg/kg		78300
Total Aliphatics >C10-C44	µg/kg		26200
Total Aromatics > EC10-EC44	µg/kg		52100
INORGANICS			
Amosite (Brown) Asbestos	No units		Not Detected
Analysed By	No units		James Richards
Chrysotile (White) Asbestos	No units		Not Detected
Colour	No units		Cream
Comments	No units		-
Crocidolite (Blue) Asbestos	No units		Not Detected
Date of Analysis	No units		09/04/2021
Description	No units		Sand
Fibrous Actinolite	No units		Not Detected
Fibrous Anthophyllite	No units		Not Detected
Fibrous Tremolite	No units		Not Detected
Inclusion 1)	No units		Crushed Brick
Inclusion 2)	No units		Stones
Non-Asbestos Fibre	No units		Not Detected
METALS			
Boron	mg/kg		12.9
Chromium	mg/kg		16.1
PAH			
Acenaphthene-d10 % recovery**	%		89.7
Chrysene-d12 % recovery**	%		81.7
Naphthalene-d8 % recovery**	%		86.1
PAH, Total Detected USEPA 16	µg/kg		16600
Perylene-d12 % recovery**	%		81.5
Phenanthrene-d10 % recovery**	%		88.7
PHYSICAL			
oisture Content Ratio (% of as received sampl	%		14
VOC			
4-Bromofluorobenzene**	%		93.1
Dibromofluoromethane**	%		113
GRO >C5-C10	µg/kg		<20
Methyl Tertiary Butyl Ether	µg/kg		<200
Sum of BTEX	µg/kg		<800
Sum of Detected Xylenes	mg/kg		<0.4
Toluene-d8**	%		98.7
Total Aliphatics >C5-C10	µg/kg		<50
Total Aromatics >EC5-EC10	µg/kg		<50

Notes:

---	Analyte not tested for
sol	Suitable 4 Use Level exceeds soil saturation limit which is given in brackets (note that if soil data exceeds the solubility limit, free product may be present). For screening consider applicability of both solubility limit and soil screening value.
vap	Suitable 4 Use Level exceeds vapour saturation limit which is given in brackets.

Annex F: Topsoil Supplier Delivery Notes

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 300487

Job Date : 19/04/2021

Quantity 1.00
Job Type : BS3882 SCREENED TOPSOIL Load
Vehicle : WX17 WZN

Driver : PHIL EYERS

Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that I have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	300488
Job Date :	19/04/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZO
Driver :	Shaun Mcloughlin
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	299084
Job Date :	06/04/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZO
Driver :	SHAH
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that I have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Wallet Materials - Romsey Depot
Sunny Lane

Tarrabury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Sic Code 41.20/1
EWC Code
Job No. : 289084
Job Date : 06/04/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : WX17 WZO 15 m3
Driver : SHAH
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/EL/[illegible]
SEE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is recovered and in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print [redacted]

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	299085
Job Date :	06/04/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZN
Driver :	PHIL EYERS
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Terms & Conditions Available on our website - www.waltet.co.uk

Conveyance Note

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Sic Code 41.20/1
EWC Code
Job No. : 289086
Job Date : 06/04/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : WX17 WZN 18 m3
Driver : PHIL EYERS
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site
Time Off Site
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/LB/16402

SEE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Waste Framework Directive and I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print [redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Tlmsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	299086
Job Date :	06/04/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZN
Driver :	PHIL EYERS
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Site Code 41.20/1
EWC Code
Job No. : 299086
Job Date : 08/04/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : WX17 WZN 15 m3
Driver : PHIL EYERS
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site:
Time Off Site
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/DU[illegible]
SEE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I hereby that the [illegible] in accordance with the Waste Protocol. I confirm that I have [illegible] of my duty to supply the waste [illegible] as required by and set out in the Waste (England and Wales) Regulations 2011

[redacted]

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

.ı ET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :
AM

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	298804
Job Date :	01/04/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WR70 FXE
Driver :	JOHN MAY
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

ET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

ALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

KOY LTD

Collection
Waltet Materials Ltd
Bursey Lane

Tarrabury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :
AM

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	298804
Job Date :	01/04/2021
Job Type :	BS3882 SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle :	WR70 FXE 15 m3
Driver :	JOHN MAY
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No [redacted] REGISTERED IN ENGLAND No [redacted] WRA REG No CB/DU [redacted]
SEE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	298462
Job Date :	29/03/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	WU67 KHM
Driver :	Martin King
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0Y7

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Terms & Conditions Available on our website - www.waltet.co.uk

CUSTOMER: MACKOY LTD

Collection

Waltet Materials Ltd
Surrey Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O BANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	298462
Job Date :	29/03/2021
Job Type :	SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle	WU67 KHM 16 m3
Driver :	Martin King
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. [redacted] REGISTERED IN ENGLAND No. [redacted] WRA REG No. CB/DU1[redacted]

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	298463
Job Date :	29/03/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	WU67 KHM
Driver :	Martin King
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials Ltd
Burley Lane

Tinsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O BANDANA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.201
EWC Code	19 12 12
Job No. :	208483
Job Date :	29/03/2021
Job Type :	SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle :	WU67 KHM 16 m3
Driver	Martin King
Waste Detail	19 12 12

Wasted Journey/Waiting Time On Site

Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CBDU [illegible]
SITE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I hereby state this product is manufactured in accordance with the Waste Protocol Levels [illegible] and have fulfilled my duty to apply the waste hierarchy as required by [illegible]

Signed [redacted]

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : TONY

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297157
Job Date :	31/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WR70 FXE
Driver :	JOHN MAY
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that I have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Conveyance Note

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : TONY

Sic Code 41.20/1
EWC Code
Job No. : 207157
Job Date : 31/03/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : WR70 FXE 15 m3
Driver : JOHN MAY
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No [redacted] REGISTERED IN ENGLAND No [redacted] WRA REG No CB/LO/[redacted]

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : TONY

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297159
Job Date :	31/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WR70 FXE
Driver :	JOHN MAY
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Conveyance Note

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : TONY

Site Code 41.20/1
EWC Code
Job No. : 297169
Job Date : 31/03/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle WR70 FXE 16 m3
Driver : JOHN MAY
Waste Detail

Notes :

Wasted Journey/Waiting Time On Site

[redacted]

VAT REG No 930 8305 56 COMPANY REGISTERED IN ENGLAND No [redacted] WRA REG No CBDU[illegible]

SEE ABOVE & WEBSITE FOR CONDITIONS - LEVEL LOADS ONLY

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297151
Job Date :	25/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZN
Driver :	PHIL EYERS
Waste Detail :	19 12 12

Notes :
Collection ref: 585/A

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025
SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0Y7

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Conveyance Note

CUSTOMER: MACKOY LTD

Collection
Wallet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Sic Code	41.20/1
EWC Code	
Job No. :	297151
Job Date :	25/03/2021
Job Type :	BS3882 SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle :	WX17 WZN 15 m3
Driver :	PHIL EYERS
Waste Detail :	

Notes :
Collection ref: 5838A

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/DU1[illegible]
SEE OVER & WEBSITE FOR CONDITION - LEVEL LOADS ONLY

I hereby declare the product is manufactured in accordance with the Waste Protocol. I confirm I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011.

Signed [redacted] Print

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
[redacted]

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297152
Job Date :	26/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	HX67 PTZ
Driver :	Malcolm Horsley
Waste Detail :	19 12 12

Notes :
AM

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Conveyance Note

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Site Code 41.2971
EWC Code
Job No. : 297152
Job Date : 26/03/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : HX67 PTZ 18 m3
Driver : Malcolm Horsley
Waste Detail :

Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. [redacted] REGISTERED IN ENGLAND No. [redacted] WRA REG No. CBDU[redacted]

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

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Southampton
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Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 297263

Job Date : 19/03/2021

Quantity 1.00
Job Type : BS3882 SCREENED TOPSOIL Load
Vehicle : SUBBIE 1

Driver : HOARE
Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
Mobile : 07892778883
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297264
Job Date :	19/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	SUBBIE 1
Driver :	HOARE
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
Mobile : 07892778883
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297265
Job Date :	19/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	SUBBIE 2
Driver :	TMR
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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LITTLEHAMPTON
BN17 6LY
Phone :
Mobile : 07892778883
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	297266
Job Date :	19/03/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	SUBBIE 2
Driver :	TMR
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

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LITTLEHAMPTON
BN17 6LY
Phone :
Mobile :
Contact :

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	293791
Job Date :	17/02/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WP67 LZL
Driver :	Brett Williams
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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LITTLEHAMPTON
BN17 6LY
Phone :
Mobile :
Contact :

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	294643
Job Date :	24/02/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	WX17 WZO
Driver :	SHAH
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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Contact :

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : JASON

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 296478

Job Date : 11/03/2021

Quantity 1.00
Job Type : SCREENED TOPSOIL
Load
Vehicle : WU67 KHO

Driver : Sean Lydon

Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

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Signed [redacted] Print Jason

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	296480
Job Date :	11/03/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	SUBBIE 4
Driver :	HOARE
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Notes :

Sic Code	41.20/1
EWC Code	20 02 02
Job No. :	296482
Job Date :	11/03/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	SUBBIE 5
Driver :	Hughes
Waste Detail :	20 02 02

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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Southampton
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Romsey
SO51 0PG
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Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : JASON

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 296483

Notes :

Job Date : 11/03/2021
Quantity 1.00
Job Type : SCREENED TOPSOIL Load
Vehicle : SUBBIE 5

Driver : Hughes
Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

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ARUN DISTRICT COUNCIL LU/150/21/DOC

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Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]

Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291106
Job Date :	14/01/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	HX67 PTZ
Driver :	Malcolm Horsley
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

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Southampton
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WALTET MATERIALS LTD

[redacted]

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Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Conveyance Note

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]

Sic Code	41.201
EWC Code	
Job No. :	291108
Job Date :	14/01/2021
Job Type :	BS3882 SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle :	HX67 PT2 15 m3
Driver :	Malcolm Horsley
Waste Detail :	

Notes :

Wasted Journey/Waiting Time On Site

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. [redacted] REGISTERED IN ENGLAND No. [redacted] WMA REG No. CB/BU1xxxxx

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

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Contact :

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : DAN

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291107
Job Date :	14/01/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	HX67 PTZ
Driver :	Malcolm Horsley
Waste Detail :	19 12 12

Notes :

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

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ARUN DISTRICT COUNCIL LU/150/21/DOC

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WALTET MATERIALS LTD

[redacted]

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Conveyance Note

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Waltet Materials - Romsey Depot
Bunny Lane

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Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Sic Code 41.20/1
EWC Code
Job No. : 291107
Job Date : 14/01/2021
Job Type : BS3882 SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : HX67 PTZ 16 m3
Driver : Malcolm Horsley
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site
Time Off Site
Waiting Time
Signed

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/DU[illegible]

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[redacted]

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

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MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291108
Job Date :	15/01/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	SUBBIE 1
Driver :	Ams

Waste Detail : 19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

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WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291109
Job Date :	15/01/2021
Quantity	1.00
Job Type :	BS3882 SCREENED TOPSOIL Load
Vehicle :	SUBBIE 1
Driver :	Ams

Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

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C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]

Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291112
Job Date :	13/01/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	WP67 LZK
Driver :	Pete Gundry
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

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SO16 0YZ

CUSTOMER: MACKOY LTD

Collection

Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
[redacted]
Contact : Lynn

Sic Code 41.20/1
EWC Code
Job No. : 201112
Job Date : 13/01/2021
Job Type : SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : WP67 LZX 18 m3
Driver : Pete Cundry
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site:

Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/DU [illegible]
SEE OVER FOR CONDITION - LEVEL LOADS ONLY
I certify that this product is manufactured in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011.

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291114
Job Date :	13/01/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	WX17 WRG
Driver :	Andrew Kirby
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Conveyance Note

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]
Contact : DAN

Sic Code	41.201
EWC Code	
Job No. :	291114
Job Date :	13/01/2021
Job Type :	SCREENED TOPSOIL
Quantity	1.00 Load
Vehicle :	WX17 WRG 16 m3
Driver :	Andrew Kirby
Waste Detail :	

Notes :

Wasted Journey/Waiting Time On Site
Time On Site:
Time Off Site:
Waiting Time:
Signed:

VAT REG No. 230 5888 00 REGISTERED IN ENGLAND No. 04880006 WRA REG No. CBDU16 0023
SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I hereby declare that the contents of waste are in accordance with the Waste Duty of Care Code of Practice and that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

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Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
[redacted]
Contact : DAN

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 291115

Job Date : 13/01/2021

Quantity 1.00
Job Type : SCREENED TOPSOIL Load
Vehicle : WX17 WZO

Driver : SHAH
Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

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Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0Y7

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Conveyance Note

CUSTOMER: MACKOY LTD

Collection
Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291115
Job Date :	13/01/2021
Job Type :	SCREENED TOPSOIL
Quantity	1.00
	Load
Vehicle :	WX17 WZO 15 m3
Driver :	SHAH
Waste Detail :	19 12 12

Notes :

Wasted Journey/Waiting Time On Site

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. [redacted] REGISTERED IN ENGLAND No. [redacted] WRA REG No. CB/BU [redacted]

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I hereby declare that this product is a waste used in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

[redacted]

[redacted]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

Timsbury
Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 291110

Job Date : 13/01/2021

Quantity 1.00
Job Type : BS3882 SCREENED TOPSOIL Load
Vehicle : WP67 LZK

Driver : Pete Gundry

Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that I have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

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Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

.WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Conveyance Note

CUSTOMER: MACKOY LTD

Collection

Wallet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :

[redacted]

Notes :

Sic Code	41.20/1
EWC Code	
Job No. :	291110
Job Date :	13/01/2021
Job Type :	BS3882 SCREENED TOPSOIL
Quantity	1.00 Load
Vehicle :	WP67 LZK 16 m3
Driver :	Pete Gundry
Waste Detail :	

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CBDU[illegible]

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that the product is manufactured in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

[redacted]

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Label22

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Collection

Waltet Materials Ltd
Bunny Lane

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Phone :
Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone :
[redacted]

Notes :

Sic Code	41.20/1
EWC Code	19 12 12
Job No. :	291111
Job Date :	13/01/2021
Quantity	1.00
Job Type :	SCREENED TOPSOIL Load
Vehicle :	SL66 MYD
Driver :	Andy Biggs
Waste Detail :	19 12 12

Wasted Journey/Waiting Time On Site:

Time On Site:

Time Off Site:

Waiting Time:

Signed:

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

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ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

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Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

[redacted]TET MATERIALS LTD

[redacted]

Conveyance Note

Terms & Conditions Available on our website - www.waltet.co.uk

Waltet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

CUSTOMER: MACKOY LTD

Collection
Waltet Materials - Romsey Depot
Bunny Lane

Timsbury
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Sic Code 41.201
EWC Code
Job No. : 291111
Job Date : 13/01/2021
Job Type SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : SL66 MYD 12 m3
Driver : Andy Biggs
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site
Time Off Site
Waiting Time
Signed

VAT REG No [redacted] REGISTERED IN ENGLAND No. [redacted] WRA REG No. CB/LB/[redacted]

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is waste [illegible] in accordance with the Waste Framework Directive that I have fulfilled my duty to comply the waste hierarchy as required by section 34 of the Waste (England and Wales) Regulations 2011

[redacted]

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

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Waltet Materials Ltd
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Nursling Ind Est
Southampton
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Collection

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Mobile :
Contact :

Delivery

MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Sic Code 41.20/1
EWC Code 19 12 12
Job No. : 291113

Job Date : 13/01/2021

Quantity 1.00
Job Type : SCREENED TOPSOIL Load
Vehicle : SL66 MYD

Driver : Andy Biggs

Waste Detail : 19 12 12
Wasted Journey/Waiting Time On Site:
Time On Site:
Time Off Site:
Waiting Time:
Signed:

Notes :

VAT REG No. 230 8892 96 REGISTERED IN ENGLAND No. 3230908 WRA REG No. CB/DU184025

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that this product is manufactured in accordance with the Wrap Protocol I confirm that i have fulfilled my duty to apply the waste hierachy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

Signed

Print

ARUN DISTRICT COUNCIL LU/150/21/DOC

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

WALTET MATERIALS LTD

[redacted]

Terms & Conditions Available on our website - www.wallet.co.uk

Wallet Materials Ltd
Unit 4 Andes Road
Nursling Ind Est
Southampton
SO16 0YZ

Conveyance Note

CUSTOMER: MACKOY LTD

Collection
Wallet Materials - Romsey Depot
Bunny Lane

Romsey
SO51 0PG
Phone :
Mobile :
Contact :

Delivery
MACKOY LTD
C/O DANDARA
WORTHING ROAD

LITTLEHAMPTON
BN17 6LY
Phone : [redacted]
Contact : DAN

Sic Code 41.20/1
EWC Code
Job No. : 291113
Job Date : 13/01/2021
Job Type : SCREENED TOPSOIL
Quantity 1.00
Load
Vehicle : SL66 MYD 12 m3
Driver : Andy Biggs
Waste Detail :

Notes :

Wasted Journey/Waiting Time On Site
Time On Site
Time Off Site
Waiting Time
Signed

VAT REG No. [illegible] REGISTERED IN ENGLAND No. [illegible] WRA REG No. CB/TR[illegible]

SEE OVER FOR CONDITION - LEVEL LOADS ONLY

I certify that the product is suitable and in accordance with the Waste Protocol. I confirm that I have fulfilled my duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011

[redacted]

Print

[illegible]

ARUN DISTRICT COUNCIL LU/150/21/DOC