

Our Ref: 1935 R08 231218 GVLR Plot 3 Issue1

18th December 2023

Hatch Homes (Blofield) Limited, Sixty-Six North Quay, Great Yarmouth, Norfolk NR30 1HE

Attn: Mr Jack Pointer

Dear Jack,

Re: Garden Validation Letter Report for The Piggeries, Yarmouth Road, Blofield – Plot 3.

1 BACKGROUND

Green Earth Management Company Limited (GEMCO) were commissioned by Hatch Homes (Blofield) Limited (the Client) to undertake garden validations at Blofield (the Site, shown at Figure 1) and to provide a Verification (Validation) Report.

The Site was a roughly rectangular parcel (area c.0.8 Ha) located to the south of Yarmouth Road, Blofield, Norfolk NR13 4JS (shown at Figure 1), centred upon the British National Grid (BNG) Reference (TG) 632811, 309473.

The Client is redeveloping the Site to a residential end-use (in accordance with Planning Application Ref: 20150262 issued by the LPA, Broadland District Council) comprising thirteen (13no.) residential dwellings with associated parking, landscaping, and infrastructure. The development layout is shown in Figure 2.

The Site was previously a poultry farm between the 1950s and 2000. The associated buildings, known to have contained asbestos, were partially destroyed by fire in the 1990s, following which they were restored and converted into a piggery. Demolition waste from the restoration from the fire was used to infill various pits. All structures were removed and the Site restored to grassland between 2017 and 2021.

Various Phase I and Phase II Site Investigation works have been undertaken at the Site, reported in February 2015 (R.1, Canham Consulting), January 2018 (R.2, A F Howland), and December 2021 (R.3, GEMCO, Second Issue April 2022) which identified asbestos and Petroleum Hydrocarbon (TPH) contamination within shallow made ground soils (some 1.2-2m thick), as well as pits some 3m deep filled with soil and demolition wastes.

A F Howland prepared a Remediation Method Statement (RMS) in May 2018 (RMS, R.4). Remediation works were undertaken by Remediate Ltd, overseen and verified by GEMCO, and reported in the GEMCO Interim Validation Report in January 2023 (R.5). The remediation/validation works were undertaken to address contamination at the Site in order to make it suitable for a residential end-use.

This letter reports the remaining remediation works carried out at Plot 3 in accordance with the RMS and recommendations of the Interim Validation Report. The plot location is shown on Figure 3.



2 SUMMARY OF SITE INVESTIGATION AND REMEDIATION WORKS PREVIOUSLY COMPLETED

In brief, the Site Investigations and Risk Assessments (R.2, R.3) identified:

- Widespread made ground generally 1.2-2.0mbgl thick, but as deep as 3.0m on one occasion, with variable amounts of anthropogenic materials (brick, concrete, asphalt) as well as occasional fragments of Asbestos Containing Material (ACM); and
- Localised Total Petroleum Hydrocarbon and Asbestos Contaminated Soil (ACS).

The key elements of the Remediation Strategy (R.4) were:

- The removal of Petroleum Hydrocarbon Contaminated Soil from the location of TP113;
- The removal of ACS from the location of TP154;
- The excavation of all soils unsuitable for a residential setting to natural soil and hand-picking/ mechanical screening of ACMs from the arisings;
- Backfilling of excavations with clean as-dug or imported material (if required) to 250mm below the Finished Floor Level (FFL, a.k.a. the Formation Level);
- Implementation of a Cover System (250mm thick) in Garden and Soft Landscaping areas; and
- Verification and validation testing of the works undertaken including validation in private gardens and open landscaped areas.

Bulk remediation works (i.e., site clearance, excavation and screening of contaminated soils, removal of unsuitable soils from the Site) were undertaken in June/July 2022, as reported in the Interim Validation Report (R.5).

Completion of the Cover System commenced in June 2023. At this stage, the Cover System has been completed and validated in Plots 2, 6, 7, 8, and 9.

3 OUTSTANDING REMEDIATION WORKS

The following remediation and validation work remain outstanding:

- Reinstatement and validation of the Cover System in private gardens of Plot 1, 3, 4, 5, communal space for Plots 10-13 (apartments), and other softstanding/landscaping areas; and
- Validation Reporting of the above-mentioned garden plots and public/private communal softstanding/landscaping areas.

The remediation validation criteria for the soils used for reinstatement within the Cover System (also referred to as "capping layer") are presented in the RMS (R.4). In brief, the reinstated soils should broadly comprise the following:

- **Private gardens**: ≥0.25m of suitable validated topsoil; and
- Landscaping Areas (POS/softstanding not in gardens): ≥0.25m of suitable validated topsoil.

Inspections would be required in three (3no.) locations per garden plot and one (1no.) location per landscaped (non-garden) area. Validation testing would be required at a minimum frequency of one (1no.) sample per garden plot.

The Soil Assessment Criteria (SAC) for validations are reproduced in Appendix 3.



4 SITE WORKS

GEMCO visited the Site on 9th October, 2nd November, and 20th November 2023 to inspect Cover System soils used in the garden and Open Space/Landscaping at Plot 3, and obtain samples of the topsoil for laboratory analysis.

A selection of photographs taken during the site works are presented in Appendix 1.

The topsoil was present from ground level to \geq 0.25mbgl, and comprised dark brown sandy clayey topsoil with occasional fine to medium gravel of flint.

The subsoil beneath comprised light brown slightly clayey slightly gravelly sand. Gravel was fine to medium rarely coarse flint.

The approximate location of sampling is shown at Figure 3 and the laboratory test results are presented in Appendix 2.

5 LABORATORY TESTING

The validation samples obtained were submitted to an MCERTS accredited laboratory for testing as soon as possible following recovery.

One (1no.) soil sample was analysed for a standard suite of contaminants of concern in line with the requirements of the Remediation Method Statement (RMS), which is outlined below:

- Metals Screen Arsenic, Beryllium, Boron (Water Soluble), Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Vanadium and Zinc;
- Organics Screen Total Petroleum Hydrocarbons (TPH) with Criteria Working Group (CWG) banding, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX), Polyaromatic Hydrocarbons (PAH) USEPA 16 Suite and Total Monohydric Phenols;
- Inorganics Screen Cyanide (Total) and Water-Soluble Sulphate; and
- Others Asbestos, pH and Total Organic Carbon (TOC).

An additional six (6no.) samples were tested for the contaminants of concern (asbestos and/or hydrocarbons).

The laboratory reports are included in Appendix 2.

6 ASSESSMENT OF THE RESULTS

The soil quality has been assessed against the remediation criteria (Soil Assessment Criteria, SAC) for a residential garden with homegrown produce (RwHP) presented at Appendix 3.

None of the samples, shown at Appendix 2, identified any chemical determinands exceeding the assessment criteria in the in-situ soils. Additionally, no asbestos was detected.

Furthermore, no exceedance of the screening criteria for plants was identified.



7 CONCLUSIONS

Soils in the garden and landscaping areas at Plot 3 were inspected and sampled for validation testing purposes by GEMCO in October and November 2023.

Based on the inspection observations and chemical analysis of the samples obtained, the topsoil and subsoil are not considered to present a significant risk to human health or plants, and the soil depths were in accordance with the RMS (R.4).

Therefore, on the basis of the site inspections and chemical analysis results received, it is considered that the soils in the garden and landscaped areas of Plot 3 are suitable for a residential end-use.

We advise that a copy of this letter and the results are provided to the Local Authority and Building Warranty provider in support of discharge of relevant land quality conditions.

If you have any queries, please do not hesitate to contact us.

Yours sincerely, On behalf of Green Earth Management Company Limited

S. C. Stanley

Stuart Stanley Graduate Environmental Consultant

Enc. Figure 1: Site Location Plan Figure 2: Proposed Development Layout Plan Figure 3: Validation Inspection Plan Appendix 1: Site Photographs Appendix 2: Chemical Laboratory Results Appendix 3: Generic Assessment Criteria



8 **REFERENCES**

- R.1. Canham Consulting Limited, Contaminated Land Assessment, Manor Farm, Blofield, 204435 Rev 1, Feb 2015;
- R.2. A F Howland Associates Limited, A Phase II Contamination Assessment for Submission in Support of Planning Permission Referenced 20150262 For A Proposed Residential Development at Manor Farm, Yarmouth Road, Blofield, NR13 4JS, Ref. BJH/17.480/Phase2, January 2018;
- R.3. Green Earth Management Company (GEMCO) Limited, Phase II Geotechnical Assessment, The Former Piggeries, Yarmouth Road, Blofield, Norfolk NR13 4JS, Ref 1935 R01: Issue 2, April 2022;
- R.4. A F Howland Associates Limited, A Remediation Method Statement and Verification Plan Prepared in Support of a Proposed Residential Development at Manor Farm, Yarmouth Road, Blofield, NR13 4JS, Ref. BJH/17.480/RMS, May 2018;
- R.5. Green Earth Management Company (GEMCO) Limited, Interim Validation Report, The Former Piggeries, Yarmouth Road, Blofield, Norfolk NR13 4JS, Ref 1935 R02: Issue 1, January 2023;
- R.6. Environmental Protection Act 1990: Part IIA, Contaminated Land Statutory Guidance, April 2012;
- R.7. British Standard BS3882: 2015, Specification for Topsoil.





Figure 1 Site Location Plan







Figure 2 Proposed Development Layout Plan







Figure 3 Validation Inspection Plan







Appendix 1 Site Photographs





Picture 03

Picture 04



Picture 05

Picture 06



-					
Pic 01:	Plot 3 rear garden.	Site:	Date:	Dec 2023	
Pic 02:	Plot 3 Validation Inspection Pit.	The Piggeries, Blofield	Project No:	1935 R08	<i>EGEMCO</i>
Pic 03:	Plot 3 validation inspection.	Title:	Issue:	Issue 1	Green Earth Management Company Ltd Suite 3, Broomfield Park,
Pic 04:	Plot 3 validation inspection pit	Appendix 1 - Site Photographs	Page No:	1 of 1	Coggeshall Road,
Pic 05:	Plot 3 validation inspection pit	Client:	Drawn by:	CU	Earls Colne, Essex CO6 2JX
Pic 06:	Plot 3 validation inspection.	Hatch Homes (Blofield) Ltd	Checked by:	DR	Tel: 01245 206 129 www.gemcoltd.co.uk



Appendix 2 Chemical Laboratory Results





Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd Unit 1 Rose Lane Industrial Estate Rose Lane Lenham Heath Kent ME17 2JN t: 01622 850410

DETS Report No: 23-12818

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231011
Sample Receipt Date:	16/10/2023
Sample Scheduled Date:	16/10/2023
Report Issue Number:	2
Reporting Date:	13/11/2023

Authorised by:

Sil

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request. This report supersedes 23-12818, issue no.1. Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.





Soil Analysis Certificate				
DETS Report No: 23-12818	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 3 TS		
Project / Job Ref: 1935	Additional Refs	E2		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680493		

Determinand	Unit	RL	Accreditation				
					1		1
Asbestos Screen ^(S)	N/a	,		Not Detected			
pH	pH Units	N/a		7.8			
Total Cyanide	mg/kg	< 1	NONE	< 1			
Total Sulphate as SO ₄	mg/kg	< 200		346			
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.03			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	53			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.05			
Sulphide	mg/kg	< 5	NONE	28			
Organic Matter (SOM)	%	< 0.1	MCERTS	2.3			
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	1.3			
Arsenic (As)	mg/kg	< 2	MCERTS	8			
Barium (Ba)	mg/kg	< 2.5	MCERTS	25			
Beryllium (Be)	mg/kg	< 0.5	MCERTS	< 0.5			
W/S Boron	mg/kg	< 1	NONE	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS	7			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	12			
Lead (Pb)	mg/kg	< 3	MCERTS	63			
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	6			
Selenium (Se)	mg/kg	< 2	MCERTS	< 2			
Vanadium (V)		< 1	MCERTS	16			
Zinc (Zn)	mg/kg	< 3	MCERTS	38			
Total Phenols (monohydric)		< 2	NONE	< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion Subcontracted analysis (S)





Soil Analysis Certificate						
DETS Report No: 23-1281			Date Sampled	09/10/23		
Green Earth Management	Co Ltd		Time Sampled	None Supplied		
Site Reference: Blofield			TP / BH No	Plot 3 TS		
Project / Job Ref: 1935			Additional Refs	E2		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	023	D	ETS Sample No	680493		
Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1		
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6		





Soil Analysis Certificate	- TPH CWG Banded					
DETS Report No: 23-128	18		Date Sampled	09/10/23		
Green Earth Management	Co Ltd		Time Sampled	None Supplied		
Site Reference: Blofield			TP / BH No	Plot 3 TS		
Project / Job Ref: 1935		ļ	Additional Refs	E2		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	.023	DI	ETS Sample No	680493		
Determinand	Unit	RL	Accreditation			
Aliphatic >C5 - C6	mg/kg ·	< 0.01	NONE	< 0.01		
Aliphatic >C6 - C8	mg/kg ·	< 0.05	NONE	< 0.05		
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2		
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2		
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3		
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3		
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10		
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21		
Aromatic >C5 - C7	mg/kg ·	< 0.01	NONE	< 0.01		
Aromatic >C7 - C8	mg/kg ·	< 0.05	NONE	< 0.05		
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2		
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2		
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2		
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3		
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10		
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21		
Total >C5 - C35	mg/kg	< 42	NONE	< 42		





Soil Analysis Certificate - BTEX / MTBE				
DETS Report No: 23-12818	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 3 TS		
Project / Job Ref: 1935	Additional Refs	E2		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680493		
Determinend	Init DI Assunditation			

Determinand	Unit	RL	Accreditation	
Benzene	ug/kg	< 2	MCERTS	< 2
Toluene	ug/kg	< 5	MCERTS	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2
MTBE	ug/kg	< 5	MCERTS	< 5





Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-12818	
Green Earth Management Co Ltd	
Site Reference: Blofield	
Project / Job Ref: 1935	1
Order No: 1935 231011	1
Reporting Date: 13/11/2023	1

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
680493	Plot 3 TS	E2	0.00 - 0.20	11.9	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test Insufficient Sample $^{\rm US}$ Unsuitable Sample $^{\rm US}$





Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-12818
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231011
Reporting Date: 13/11/2023

Sol D Boron - Ward Soluble Determination of Yatter soluble toorn in sol tw 21 that water control followed by ICP-OES E031 Sol D Chinotie - Water Soluble Determination of Text by handpace Co-OS E031 Sol D Chinotie - Water Soluble Determination of Text by autor racial disaction filewed by ICP-OES E032 Sol AR Chinomum - Revealent 1, 15 disher/neutration for the control water by autor racial disaction for the control water by autor racial water by autor racial disaction for the control water by autor racial water by autor racial disaction for the control water by autor racial wateracial water by autor racial waterawaterawater by a	Matrix	Analysed	Determinand	Brief Method Description	Method
Gold AR TEX Determination of TEX by heappage C-V5 Constrained and the second and the second determination of another set and the set analysed by ion chromotypatry E001 Soil D Chronie. Water Souke (2:1) Determination of chronic in sub varies analysed by ion chromotypatry E003 Soil AR Chronie. Thexaverent E003 Soil AR Chronie. Complex Determination of complex operate by distiliation followed by colonnetry E003 Soil AR Constance: Complex Determination of total cyacide by distiliation followed by colonnetry E013 Soil AR Constance: Complex Determination of total cyacide by distiliation followed by colonnetry E013 Soil AR Exercised constantion Constantion E004 Soil AR Exercised constantion Constantion E004 E004 E002 E004 E004 E002 E004	Soil	On	Boron - Wator Solubla	Determination of water coluble baren in cell by 2:1 bet water extract followed by ICD OES	No
Soil D Cators Determination of cators in soil to aqui-regis digestion followed by CrOSES [000] Soil AR Choinde - Vater Soluble 2() Determination of heavaler chornum in soil by extinction in waiter the hysodification, advance by costing on the soluble cost of the					-
501 D Chicolia - Visiter Soluble (2): Determination of chicolia by extraction with wet 8 analyeed by ion chromatography 500 601 AR Chronium - Hosavaler (Chronium is obly extraction in water them by additication, addition of programments of the analyeed chronium is obly extraction in water them by additication, addition of programments of the analyeed by ion chromatography 501 601 AR Cycloniae - Total Determination of the analyeed chronic traction with y colorinetry 601 601 AR Desent Range Organics (Cli - CA) Determination of the analyeed croce extractable hydrocarbons by GC-HD 600 601 AR Electrical Conductive Determination of electrical conductive by addition of invater followed by electrometric measurement 603 603 AR Electrical Conductive Determination of alemental suphur by solvent attractical chronic measurement 603 603 AR Electrical Conductive Determination of acatomylocanae tractable hydrocarbons by GC-HD 604 603 AR Electrical Conductive Determination of acatomylocanae tractable hydrocarbon by GC-HD 604 603 AR Electrical Conductive Determination of acatomylocanae tractable hydrocarbons by GC-HD 604 603 AR					
Soil AR Chromium - Heavaker Determination of heavaker chromium in soil by extraction in water them by socialization, solition of soil are solition of the solitic complex determination of complex synable by dollation followed by colorimetry EDIS Soil AR Curanita: Complex Determination of complex synable by dollation followed by colorimetry EDIS Soil D Cyranita: First Determination of complex synable by dollation followed by colorimetry EDIS Soil AR Dised Barge Organics (D1 - C2) Determination of heavale/extreme stratable hydrocarbone by GC-FID EDIA Soil AR Electrical Conductive Determination of electrical conductive by addition of water followed by GC-MS EDIS Soil AR Electrical Conductive Determination of action physicane entratable hydrocarbone by GC-FID EDID Soil AR Electrical Conductive Determination of action physicane entratable hydrocarbone by GC-FID EDID Soil AR EPH Polotic LD EDI by Bearringtion of action physicane entratable hydrocarbone by GC-FID EDID Soil D Entratable System Determination of action physicane analysis of the complex physicane by CC-FID EDID Soil D Entratable System Determination of action of physicane analysis of theaconable phy					
Gold AR Openate-Complex Determination of complex oparade by distillation followed by colorimetry EDIS Sold AR Openate-Trad Determination of tradi capanies (first cynaic) by distillation followed by colorimetry EDIS Sold AR Openate-Trad Determination of tradi capanies (first cynaic) by distillation followed by colorimetry EDIS Sold AR Determination of tradi capanies (first cynaic) by distillation followed by colorimetry EDIS Sold AR Determination of tradi capanies (first cynaic) by distillation followed by colorimetry EDIS Sold AR Electrical Conductive, Determination of electrical conductive by addition of water followed by electronectic measurement EDIS Sold AR Electrical Conductive, Determination of action phosane extratable hydrocarbon by GC-FID EDIS Sold AR Electrical Conductive, Determination of action phosane extratable hydrocarbon by GC-FID EDIS Sold AR Electrical Conductive, Determination of action phosane extratable hydrocarbon by GC-FID EDIS Sold D Filtrado Electrical Conductive, Determination of ToC is combation analyser. EDIS Sold D Filtrado Electrical Conductive, Determination of ToC is com				Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	
Gold AR Coynelle - Tree Description Entity Entity Entity Soil D Cyclehears Extractable Metter (CEM) Considerating determined through extraction with cyclehears Entity	Soil	ΔR	Cvanide - Complex		E015
Soil AR Copanies - total betermination of total caynade by distillation followed by colorinetry EDI Soil AR Deself Range Urganics (C10 - C4) Determination of hexane/actorics extractable hydrocarbons by CC-bits EDI Soil AR Electrical Conductivity Determination of hexane/actorics extractable hydrocarbons by CC-bits EDI Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement EDI Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement EDI Soil AR EPH TEMS (GC-C3, GC-C1, C1-C40) Bettermination of actorin/hexane extractable hydrocarbons by GC-BID EDI Soil AR EPH TEMS (GC-C3, GC-C1, C1-C40) Bettermination of actorin/hexane extractable hydrocarbons by GC-BID EDI Soil D C12-C4, GC-C3, C1-C1-C40) Bettermination of TCC by combustion analyzer. EDI Soil D C12-C4, GC-C3, C1-C1-C40) Bettermination of TCC by combustion analyzer. EDI Soil D C12-C4-C3, GC-C3, C1-C1-C40) Bettermination of TCC by combustion					
Soil D Cyclohexame Extractable Matter (CEM) Gravmenticitally determined through extraction with cyclohexame 601 Soil AR Electrical Conductivity Decide Rance Conducti					
Soil AR Electrical Conductivity Determination of electrical conductivity by addition of saturated calcium subplate followed by E022 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E033 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E034 Gail AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E034 Soil AR EPH Folder LD electrimination of actional/neare extractable hydrocarbons by GC-FID E044 Soil D Factor Conductivity Determination of TCC by combustion analyzer. E037 Soil D Factor Conductivity Determination of TCC by combustion analyzer. E037 Soil D FOC (Factor Organic Carbon COC Determination of TCC by combustion analyzer. E037 Soil D FOC (Factor Organic Carbon COC Determination analyzer. E037 Soil D Horeato Organic Carbon COC Determination of theoreato pub y outding with potasium dichromate followed by ICP-OES E032	Soil	D			E011
Soil AR Detectinal Conductivity Detectinal Co	Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soli D Elemental Subture Internation of elemental subture by colonet extraction followed by CC-MS ED00 Soli AR PPH Froduct ID Edemination of actors/heame extractable hydrocarbons by CC-FID ED04 Soli AR PPH Froduct ID Edemination of actors/heame extractable hydrocarbons by CC-FID for CB 0 C40. C6 to C8 by ED04 Soli D Feature Cathon Organic Cathon (FOC) Edemination of actors/heame extractable hydrocarbons by CC-FID for CB 0 C40. C6 to C8 by ED04 Soli D Fraction Organic Cathon (FOC) Edemination of TCO by conduction analyser. ED07 Soli D ToC (Total Organic Cathon (FOC) Edemination of Cb by conduction analyser. ED07 Soli D FOC (Fraction Organic Cathon) Determination of Actors organic Cathon by codising with potassium dichromate followed by ICP-OES ED05 Soli D Loss on lignition # 450c Determination of Avater solutile magnesium by extraction with water followed by ICP-OES ED02 Soli D Magnesium- Water Solutile Determination of nators organic Cathon by Colonal displation followed by ICP-OES ED03 Soli D Magnesium- Water Solutiba catho cather magnesium hy extraction with water foll	Soil	AR	Electrical Conductivity		E022
Soil AR EPH (C10 – C40) Determination of accome/breane extractable hydrocarbons by CC-FID E004 Soil AR EPH TEXS (Ci-C8, Ci-C1, Di-C12, Determination of accome/breane extractable hydrocarbons by CC-FID for C8 to C40, C6 to C8 by E004 Soil AR EPH TEXS (Ci-C8, Ci-C1, C12-C21, Determination of accome/breane extractable hydrocarbons by CC-FID for C8 to C40, C6 to C8 by E004 Soil D Fluctide - Water Soluble Determination of T0C by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of T0C by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of T0C by combustion analyser. E027 Soil D FDC (Fraction Organic Carbon Determination of T0C by combustion analyser. E027 Soil D FDC (Fraction Organic Carbon Determination of Vater soluble magnetism. by cortacity with the sample being ignited in a muffle E019 Soil D Loss on Ignition @ 4500C Entimate E019 Soil D Magnetism Water Soluble Determination of nates to carbon fiberio	Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil AR EPH Product ID Determination of accomp/hexane extractable hydrocarbons by GC-FID E004 Soil D FBH TEXS (SC-GS, GS-GL, GC-L) C12, Determination of accomp/hexane extractable hydrocarbons by GC-FID for GB to C40. C6 to C8 by C12-C16, C11-C12, Determination of TOC by combustion analyser. E007 Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon Determination of Tocaro or organic carbon by oddising with potassium dichromate foilowed by (E002 E023 Soil D Magnesium: Wate Subile Determination of matios: potabiline appresium by extraction with water foilowed by (EP-OES) E002 Soil AR Mineral Oil (10 - C40) Determination of matios: potabiline appresium-by tip-POES E002 Soil AR Mineral Oil (10 - C40) Determination of matios: potabiline appresium by tip-POES E003 Soil	Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Sol AR EPH TEXAS (GC-G, GC-LD, C10-C12, Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40, C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D TOCC (Total Organic Carbon Obstermination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbon Determination of organic carbon by oxidising with potassium dichromate followed by tration with inc III sublate E029 Soli D Loss on Ignition @ 4500. Determination of vacarce carbon by oxidising with potassium dichromate followed by thraten with inc III sublate E029 Soli D Magnesium - Water Soluble Determination of neals by aqua-regin digeston followed by UCP-OES E020 Soli AR Mineral UI (1.0 - c0) Determination of intate by carbon sing with potassium dichromate followed by GC-HD fractionating with SPE E004 Soli AR PAH - Speciated (EPA 16) Determination of intate by carbon with water & analysed by ion chromatography E003	Soil	AR			
Soli AR C12-C16, C12, C12-C10, Peadspace GC-MS CEOM Soli D Floration (Traction Creation Control Provide by extraction with water & analysed by ion chromatography E009 Soli D Floration (Traction Creation Control TOC by combustion analyser. E027 Soli D TOC (Traction Creation Control TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of TOC by combustion analyser. E029 Soli D TOC (Traction Organic Carbon Traction of raction of raction of raction by oxidinely with potassium dichromate followed by E000 E010 Soli D Less on Lipition @ 4500 Petermination of Instance soluble management by cartaction with water followed by ICP-OES E022 Soli D Magnesium - Water Soluble management by cartaction with water followed by ICP-OES E002 Soli AR Mineral OII (C10 - C40) Petermination of Interane/Acction extraction with water followed by ICP-OES E003 Soli AR Mineral OII (C10 - C40) Petermination of Interane/Acction with water analysed to ion chronateoraphy. E003 Soli AR PAH - Speciated (EPA 16) Determination of Interane/Acction wit	Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil D C12(16, 16)-C1 (21-C1) easing Space SL-NS End of a Visa End Visa End of	Soil	ΔR			F004
Soil D Fraction Granic Carbon (FCC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Granic Carbon) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by E010 E029 Soil D Hoard Soil (Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by CP-OES E029 Soil D Magnesium - Water Soluble Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E000 Soil AR Mineral OII (C10 - C40) Determination of relaxe by aua-regia disection followed by ICP-OES E002 Soil AR Mineral OII (C10 - C40) Determination of relaxe by aua-regia disection followed by ICP-OES E001 Soil AR PAH - Speciated (C21) Determination of ractic perminetion of relaxe by aua-regia disection followed by ICP-OES E002 Soil AR PAH - Speciated (CPA 10) Soil or analyser. <			C12-C16, C16-C21, C21-C40)	headspace GC-MS	
Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of a annonium by discrete analyser. E023 Soil D Loss on Ignition @ 4500 E019 E019 Soil D Magnesium - Viets Soluble E019 E019 Soil D Magnesium - Viets Soluble E019 E019 E019 Soil D Magnesium - Viets Soluble Determination of meane/acotone extractable hydrocarbons by GC-FID fractionality with SPE E002 Soil AR Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil D Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil AR Mineral Oil (C10 - C40) Determination of nixate by catchion with water followed by ICP-OES E003 Soil AR PAH - Speciated (EPA Io) Determination of nixate by catchion with water followeed by ICP-OES			Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	
Soil D TOC (Total Organic Carbon) Determination of amonium by descrete analyser. E027 Soil AR Exchangable Ammonium Determination of amonium by descrete analyser. E029 Soil D FROC (Fraction Organic Carbon) Determination of amonium by descrete analyser. E029 Soil D Loss on Ignition @ 450c Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by acuar-regis digestion followed by ICP-OES E025 Soil AR Mineral OII (C10 - C40) Determination of metals by acuar-regis digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of metals by acuar-regis digestion followed by ICP-OES E004 Soil D Nitrate - Water Soluble (21) Determination of mather by acuar-regis digestion followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of mather by acual-regis digestion followed by ICP-OES E003 Soil D Progenic Mather E004 E003 E004 Soil AR <td></td> <td></td> <td>Fraction Organic Carbon (FOC)</td> <td>Determination of TOC by combustion analyser.</td> <td></td>			Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	
Soil AR Exchangeable Ammonium Determination of ration of grain carbon by oxidising with potassium dichromate followed by tration with iron (II) subhate. E029 Soil D Loss on Ignition (@ 4500C) Etermination of ration in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Etermination of water soluble magnesium by extraction with water followed by ICP-OES E022 Soil AR Mineral OII (Col - C40) Etermination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral OII (Col - C40) Etermination of nease/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartifidae E004 Soil AR Mineral OII (Col - C40) Etermination of fractable hydrocarbons by GC-FID fractionating with potassium dichromate followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of ribus extraction with water & analysed by ion chromatography E003 Soil D Organic Matter Determination of PAH compounds by extraction with acetone and hexare followed by GC-MS E004 Soil AR PAH - Speciated (EPA 16) Eve extraction with acectone and hexare followed by GC-MS					
Soli D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soli D Loss on Ignition @ 450c Determination of the son ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Determination of metals by aquar-regional digestion followed by UCP-OES E025 Soli AR Mineral OII (C10 - C40) Determination of metals by aquar-regional digestion followed by UCP-OES E003 Soli AR Mineral OII (C10 - C40) Determination of metals by aquar-regional digestion followed by UCP-OES E003 Soli D Nitrate - Water Soluble (21) Determination of threats by scharchino with water & analysed by ion chromatorarabiny E003 Soli D Organic Matter Determination of rAN compands by extraction with avetare followed by GC-MS with the toget of analysed by GC-MS with the toget of analysed by GC-MS with the toget of analysed by a chromatorarabiny E003 Soli AR PAH - Speciated (EPA 16) Betermination of rAN compands by extraction with avetare followed by GC-MS with the toget of analysed by ion chromatography E003 Soli AR Phenols - Total (monohytic) Determ					
Solt D Loss on Ignition @ 450cc Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Solt D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E022 Solt AR Mineral Oil (C10 - C40) Determination of metane/Jacctone extractable hydrocarbons by CC-FID fractionating with SPE E004 Solt AR Mineral Oil (C10 - C40) Determination of mitrate by extraction with water & analysed by ion chromatography E003 Solt D Nitrate - Water Soluble (21) Determination of PAI compounds by extraction with water & analysed by ion chromatography E003 Solt AR PAH - Speciated (EPA 16) Determination of PAI compounds by extraction with water followed by GC-MS with the ion (III) sulphate E005 Solt AR PAH - Speciated (EPA 16) Determination of PAI compounds by extraction with water mether E003 Solt AR Phenoles - Torageners Determination of PAI compounds by celcrometric measurement E007 Solt AR Phenoles - Total Compound (PEB) water followed by celcrometry E003 Solt AR Phenoles -				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by	1
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES ED02 Soil D Metals Determination of metals by aquaregia digeston followed by ICP-OES ED03 Soil AR Mineral Oil (C10 - C40) Determination of metals by aquaregia digeston followed by ICP-OES ED03 Soil D Nitrate - Water Soluble (2:1) Determination of nutrate by extraction with weter & analysed by ion chromatography ED03 Soil D Organic Mattry ED03 ED03 Soil AR PAH - Speciated (EPA 16) Determination of organic mattry by oxiding with potassium dichromate followed by GC-MS with the geos ED05 Soil AR PCB - 7 Congeres Determination of PAE Compounds by extraction with acetone and hexare followed by GC-MS ED08 Soil AR PEtroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether ED01 Soil AR Phenols - Tod (monohydric) Determination of valuef alowed by colorimetry ED03 Soil AR Phenols - Tod (monohydric) Determination of valuef alowed by extraction with aver followed by ICP-OES ED03<	Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle	E019
Soil D Metals Determination of metals by aqua-regid digestion followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil D Nitrate - Water Soluble (2:1) Determination of ritrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Matter Determination of organic matter by oxidiing with potassium dichromate followed by BC-MS with the user of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAE tompounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PCB - 7 Congeners Determination of PAE towpounds extraction with acetone and hexane followed by GC-MS E003 Soil AR PCD - 7 Congeners Determination of water soluble extraction with acetone and hexane followed by GC-MS E004 Soil AR PHonobiate - Vatar (PEE) Determination of phenols by distillation followed by clorimetry E021 Soil AR Phenols - Total (monohydric) Determination of water soluble extraction with water & analysed by ion chromatography E009 Soil	Coil	D	Magnosium Water Soluble		E02E
Soil AR Mineral OII (C10 - C40) artifidge Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Moisture Content Moisture content; determination of nutrate by extraction with wate & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with from (11) subplate E009 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PCB - 7 Congeners Ectorimation of PLB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Petro-100 petromination of PLB by extraction with acetone and hexane followed by GC-MS E001 Soil AR Petro-100 petromination of phe by addition of water followed by electrometric measurement E007 Soil AR Phenols - Total (monohydric) Determination of subplate by extraction with acets analysed by ion chromatography E009 Soil D Subpate (as SO4) - Total Determination of subplate by extraction with water & analysed by ion chromatography E002 Soil D Sulphate (as SO4) - Total Determination of s					
Soil AR Moisture Content Moisture content, determined gravinetrally. E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction in acetone and hexane followed by GC-MS with the got surrogate and internal standards. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the got surrogate and internal standards. E008 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the got surrogate and internal standards. E001 Soil AR Phenols - Total (monohydric) Determination of ph by addition of water followed by icconnetic: measurement. E007 Soil D Phosphate - Water Soluble (2:1) Determination of topshate by extraction with water followed by iCP-OES E013 Soil D Phosphate (as SO4) - Total (monohydric) Determination of sulphate by extraction with water followed by ICP-OES E013 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-O				Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE	
Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) sulphate E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with water & analysed by ion chromatography E001 Soil AR Phenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetry E002 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1)	Soil	۸D	Moisturo Contont		E003
SoilDOrganic Matter Ion (11) subpateDetermination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) subpateE010SoilARPAH - Speciated (EPA 16) use of surroacte and internal standardsDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE005SoilARPCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum etherE001SoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryE001SoilDPhosphate - Valer Soluble (2:1) Determination of subpate by extraction with number of lolowed by ICP-OESE013SoilDSulphate (as SO4) - Valer Soluble (2:1) Determination of sulphate by extraction with number of lolowed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volable sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volable sulphate by extraction with water followed by ICP-OESE024SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volable sulphate by extraction with water followed by ICP-OESE024SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volable sulphate by extraction with suber followed by ICP-OESE024SoilART					
Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MS E008 Soil D Petroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether E011 Soil AR Phenols - Total (monohydric) Determination of phosphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of sulphate by extraction with Water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with mater followed by ICP-OES E014 Soil AR Sulphate (as SO4) E009 E004 Soil AR Sulphate (as SO4) Determination of tail sulphur by extraction with mater followed by ICP-OES E014 Soil AR Tholocyanate (as SCN)<				Determination of organic matter by oxidising with potassium dichromate followed by titration with	
Soil AR PCB - 7 Congeners Determination of PCB by extraction with actone and hexane followed by GC-MS E008 Soil D Petroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether E001 Soil AR Phenols - Total (monohydric) Determination of pit by addition of water followed by electrometric measurement E007 Soil D Phosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of sulphate by extraction with water R analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of water soluble sulphate by extraction with water followed by ICP-OES E014 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-OES E014 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-OES E014 Soil AR Sulphate (as SCN) Determination of sulphate by extraction with aqua-regia followed by ICP-OES E024 Soil <td>Soil</td> <td>AR</td> <td>PAH - Speciated (EPA 16)</td> <td>Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the</td> <td>E005</td>	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005
SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARphenols - Total (monohydric)Determination of phe phadition followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed byE009SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE013SoilDToluene Extractable Matter (TEM)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE017SoilDToluene Extractable Matter (TEM)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/	Soil	AR	PCB - 7 Congeners		E008
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (mondydric)Determination of phenos by distillation followed by colorimetryE001SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Vater Soluble (2:1)Determination of sulphate by extraction with number & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphateSulphur - TotalDetermination of semi-volatile organic compounds by extraction with mater followed by ICP-OESE024SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN) Determination of full sulphate by extraction with tolueneE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C24, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C1					
Soil AR Phenols - Total (monohydric) Determination of phenols by distillation followed by colorimetry E021 Soil D Phosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of total sulphate by extraction with 10% HCI followed by ICP-OES E013 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-OES E014 Soil AR Sulphate - Total Determination of sulphate by extraction with water followed by ICP-OES E024 Soil AR Sulphate - Total Determination of sulphate by extraction with awar-regia followed by ICP-OES E024 Soil AR Sulphate (as SCN) Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by CO-OES E017 Soil AR Thiocyanate (as SCN) Determination of ferric nitrate followed by colorimetry E017 Soil D Total Organic Carbon (TOC) Determination of organic matter by oxidising with potassium					
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of subphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Total Determination of subphate by extraction with water regia followed by ICP-OESE024SoilDSulphate (as SO4) - Total Determination of total sulphur by extraction with aquar-regia followed by ICP-OESE024SoilARSVOCDetermination of thicyanate by extraction in caustic soda followed by acidification followed by addition of thicyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of funcyanate by extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C3-C3E014SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C23, C3-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C3-C3, C3-C44, C12-C					
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide organic compounds by extraction in acetone and hexane followed byE004SoilARThiocyanate (as SO4)Determination of funcyanate by extraction in caustic soda followed by acidification followed byE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) sulphateE010SoilDTPH CWG (ali: C5 - C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C33, C3 + C4 & C3 + C3 + C3 + C4 & C3 + C3 + C4 & C3 + C3 + C4 & C3 +	Soil	D			E009
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE013SoilARChock - SolubConstant - SolubE004SoilARChock - SolubDetermination of sulphide by distillation followed by colorimetryE006SoilARChock - SolubDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,E004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C36, C3-C5-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C3-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C3-C44, C12-C16, C1	Soil	D			E013
SoilARMRSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCOCOSDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferri- nitrate followed by colorimetryE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferri- nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro	Soil	D			E009
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with to n (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8	Soil				
SoilARSWCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, SoilDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MSE001					
SoilARSVOCGC-MSE000SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Total Organic Carbon (TOC)Determination of thiocyanate by extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Sulphur - Total		E024
SoilARThioCyanate (as SCN) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryED17SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	SVOC	GC-MS	E006
SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C10-C12, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001			, , ,	addition of ferric nitrate followed by colorimetry	
SoilDTotal Organic Carbon (TOC) iron (II) sulphateED10SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C1, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE001	Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
SoilARC10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hydrocarbons by headspace GC-MSE004SoilARVVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with	E010
Soil AR C10-C12, C12-C16, C16-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arrow critical cartridge for C8 to C44. C5 to C8 by headspace GC-MS E004 Soil AR VOCs Determination of volatile organic compounds by headspace GC-MS E001 Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE	E004
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS	
			VOCs	Determination of volatile organic compounds by headspace GC-MS	
D Dried			VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried AR As Received

Page 7 of 7



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-12818

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231011
Sample Receipt Date:	16/10/2023
Sample Scheduled Date:	16/10/2023
Report Issue Number:	2
Reporting Date:	13/11/2023

Authorised by:

S.CZ

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request. This report supersedes 23-12818, issue no.1. **Reason for re-issue:** Split report.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.





Soil Analysis Certificate				
DETS Report No: 23-12818	Date Sampled	09/10/23		
Green Earth Management Co Ltd	Time Sampled	None Supplied		
Site Reference: Blofield	TP / BH No	Plot 3 TS		
Project / Job Ref: 1935	Additional Refs	E3		
Order No: 1935 231011	Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2023	DETS Sample No	680494		

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
Analytical results are expressed on a dry weight	basis where samples are assi	isted-dried a	t less than 30°C. The	Method Description pa	ge describes if the tes	st is performed on the	dried or as-received po	tion

Subcontracted analysis (S)





Soil Analysis Certificate						
DETS Report No: 23-1281	18		Date Sampled	09/10/23		
Green Earth Management	Co Ltd		Time Sampled	None Supplied		
Site Reference: Blofield			TP / BH No	Plot 3 TS		
Project / Job Ref: 1935			Additional Refs	E3		
Order No: 1935 231011			Depth (m)	0.00 - 0.20		
Reporting Date: 13/11/2	023	D	ETS Sample No	680494		
Determinand	Unit	RL	Accreditation			
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.21		
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	0.54		
Pyrene	mg/kg	< 0.1	MCERTS	0.51		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.28		
Chrysene	mg/kg	< 0.1	MCERTS	0.26		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.31		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.13		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.33		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.15		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	_	_
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.14		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	2.9		





Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 23-12818	
Green Earth Management Co Ltd	
Site Reference: Blofield	
Project / Job Ref: 1935	1
Order No: 1935 231011	1
Reporting Date: 13/11/2023	1

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
680494	Plot 3 TS	E3	0.00 - 0.20	7.9	Brown sandy clay with stones and brick

Moisture content is part of procedure E003 & is not an accredited test Insufficient Sample $^{\rm US}$ Unsuitable Sample $^{\rm US}$





Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-12818
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231011
Reporting Date: 13/11/2023

B On Born Mon Gel 0 Berner-Water Solidio Parameters of Life by handpass of Life by ha	Matrix	Analysed On	Determinand	Brief Method Description				
Gel AR ITEX Determination of URIX by headpace C-45 foot Soil D Caterons Determination of unions in sub vacue croat decade in clowed by LCP eES foot Soil AR Chornes. Water Soluble (2.1) Extermination of union in sub vacue croat decade in clowed by LCP eES foot Soil AR Chornes. Water Soluble (2.1) Extermination of contact by and fination by continuity water that by additional sub additional by add	Soil		Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 bot water extract followed by ICP-OES				
Soil D Cators Determination of cators in soil by aque real depation followed by CRCSE (000) Soil AR Orronium - Housevelett Determination of heavaleer chromum in soil by particition in water the by addication, addition (001) Soil AR Orronium - Housevelett Determination of heavaleer chromum in soil by particition in water the by addication, addition of the addition for the control by particition in water the by addication, addition of the addition for the control by columnaty (001) Soil AR Conniels - Ensite Determination of the control by particition flowed by columnaty (001) Soil AR Conniels - Ensite Determination of the control by addition of water addition flowed by columnaty (001) Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water addition of budget by determination of addition flowed by CR-HD (002) Soil AR Electrical Conductivity (001) (002) Soil AR Electrical Conductivity (001) (002) Soil AR Electrical Conductivity (002) (002) Soil AR Electrical Conductivity addition of water colacies by addition of water colacies by CR-HD accos (002)					-			
Soil D Chloride - Water Soluble (2) Determination of chloride by extraction with water 8 analysed by ion chromatography E009 Soil AR Chromian - Hocavales Determination of bearvales chrominus in soil by extraction in water then by acclification. E016 Soil AR Chromian - Hocavales Determination of the exame by detailiation followed by colorinetry. E015 Soil AR Cycloweas The Detailiation followed by colorinetry. E015 Soil AR Cycloweas The Chronic Control on the exame by detailiation followed by colorinetry. E011 Soil AR Electrical Conductively Detaiministion of electrical conductively by addition of water followed by electrometric measurement E023 Soil AR Electrical Conductively Detaiministion of electrical conductively by addition of water followed by clorent of the other addition diverse by GC-HD E004 Soil AR Electrical Conductively Detaiministion of adectrical conductively by addition of water followed by clorent of the other addition diverse by GC-HD E004 Soil AR Electrical Conductively Detainse De								
301 AR Chromutin 'neckwiden' 1,5 dipervice/nacked for continuery		D			E009			
Soil AR Cynoide - Tree Determination of the cynoide by docimentry EDIS Soil D Cychobeams Extractable Matter (CEM) Granitation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of basenafe abuse extractable Matter (CEM) EDIS Soil AR Bestimation of extractable Matter (CEM) EDIS Soil AR Bestimation of extern abuse extractable Matter (CEM) EDIS Soil AR Extractal Conductivity Determination of extern abuse extractable Matter (CEM) EDIS Soil AR EPH TUSK (CEG), CFC (CID (CH) Determination of extern abuse extractable Matter (CEM) EDIS Soil AR EPH TUSK (CEG), CFC (CID (CH) Determination of extern abuse extractable Matter (CEM) EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser. EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser. EDIS Soil D Fraction Cranit (CEM) Entermination of ToC (C combustion analyser. <td< td=""><td>Soil</td><td>AR</td><td>Chromium - Hexavalent</td><td></td><td>E016</td></td<>	Soil	AR	Chromium - Hexavalent		E016			
Soil AR Cyclobase Experiments Coll Coll Cyclobase Experiments Coll Soil AR Deser Range Organics (C10 - C4) Determination of hearing-actence extractable hydrocorbons by CC-100 E004 Soil AR Electrical Conductivity Determination of hearing-actence extractable hydrocorbons by CC-100 E004 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by cletrometric measurement E003 Soil D Electrical Conductivity Determination of electrical conductivity by addition of water followed by CC-100 E004 Soil AR EPH TEWAS (CC-23, CB 1400 Determination of actenom/hearine extractable hydrocorbons by CC-100 E004 Soil AR EPH TEWAS (CC-23, CB 1400 Determination of actenom/hearine extractable hydrocorbons by CC-100 E004 Soil D C12-16, C16-21, CB 1400 Determination of TCC by combustion analyser. E007 Soil D Fraction Organic Chartin (CD) Determination of TCC by combustion analyser. E007 Soil D Fraction Organic Chartin (CD) Determination of TCC by combustion analyser.<	Soil	AR	Cyanide - Complex		E015			
Soil D Cyclobeane Extractable Matter (CEP) Gravmetricity determining through extraction with cyclobeane E011 Soil AR Biest Flag Organis (CE) - CA) Betermination of heardy-actors extractable Mydroxinos by GC-FID E004 Soil AR Biestrical Conductivity Desemination of electrical conductivity by addition of statured column subhate followed by CE-FID E004 Soil AR Biestrical Conductivity Desemination of electrical conductivity by addition of statured column subhate followed by CE-FID E004 Soil AR EPH COde (CE) Edemination of electrical conductivity by addition of statured columns by GC-FID E004 Soil AR EPH Code (CE) Edemination of actorn/hexane extractable Mydroxohos by GC-FID E004 Soil AR EPH Today (CE) Edemination of actorn/hexane extractable Mydroxohos by GC-FID E004 Soil D Fraction Dynatic Cahoo, CO (CE) Edemination of TOC by combination analyser. E007 Soil D Fraction Dynatic Cahoo, Co (CE) Edemination of TOC by combination analyser. E007 Soil D Fraction Dynatic Cahoo, Co (CE) Edemination of ToC by combination analyser. E007	Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015			
Soil AR Desel Range Organics (CID - C2A) Determination of hexaniquateme extractable hydrocarbons by CC-FID E004 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subured calcum subplate followed by electrometric measurement E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subured calcum subplate followed by electrometric measurement E023 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR EPH TC3AC (5-C6, C1, C1, C1-C40) betamination of action/hexane subtable hydrocarbons by CC-FID E004 Soil AR EPH TC3AC (5-C6, C1, C1, C1-C40) betamination of action/hexane subtable hydrocarbons by CC-FID E004 Soil D Firaction Organic Carbon (7C0) betamination of TCAC to combuston analysee. E007 Soil D Fraction Organic Carbon (7C0) betamination of TCAC to combuston analysee. E002 Soil D FoC (Fraction Organic Carbon (7C0) betamination of TCAC to combuston analysee. E002 Soil D FoC (Fraction Organic Carbon (7C0) betamination of TCAC to combuston analysee.	Soil	AR			E015			
Sol AR Electrical Conductively electrometric measurement E022 Sol AR Electrical Conductively electrometric measurement E023 Sol D Electrical Conductively electrometric measurement E023 Sol AR Electrical Conductively electrometric measurement E023 Sol AR Electrical Conductively electrometric measurement E023 Sol AR Electrical Conductively electrometrical conductively by solvent contraction followed by electrometric measurement E023 Sol AR Electrical Conductively electrometrical conductively by solvent contraction with water & analysed by los chromatography C12-C16, C16-C1, C1-C14 Electrometrical conductively electrometrical by electrometrical by electrometrical by electrometrical electromet					-			
Soli AR Detectional Conductivity detecti	Soil	AR	Diesel Range Organics (C10 - C24)		E004			
Soil D Elemental Solphur Distance and solphur by colvent extraction followed by GC-BD 6000 Soil AR EPH Froduct ID determination of actors/heame extractable hydrocarbons by GC-FD 6004 Soil AR EPH Froduct ID determination of actors/heame extractable hydrocarbons by GC-FD for CB to C40. C6 to C8 by 6004 Soil AR EPH FTSAC (FCS, CR: C0-1C) C1-C12 betermination of actors/heame extractable hydrocarbons by GC-FD for CB to C40. C6 to C8 by 6004 Soil D Fraction Organic Carbon (FOC) Determination of TCC by combustion analyser. 6027 Soil D Total Organic Carbon (FOC) Determination of TCC by combustion analyser. 6027 Soil D FOC (Fraction Organic Carbon) (FOC) Determination of Actor Analyser. 6027 Soil D House hydrogene carbon by activation of Maximum Adverse. 6029 Soil D House hydrogene carbon by activation of Maximum Adverse. 6020 Soil D House hydrogene carbon by activation with potassium dichromate followed by ICP-OES 6002 Soil D Maximum Adverse carbon by activation with water followed by ICP-OES 6002 Soil D Mircred IO (LCO - Ca	Soil	AR	Electrical Conductivity		E022			
Soli AR EPH (C10 – C40) Determination of accome/hexane extractable hydrocarbons by GC-FID E004 Soli AR EPH FDAG (C10, C10, C10, C10, C10, C10, C10, C10,			,					
Soil AR EPH Product ID Determination of accome/hexane extractable hydrocarbons by GC-FID E004 Soil AR EPH TEXS (SC-GS, GS-CI, OC12, D) Extermination of accome/hexane extractable hydrocarbons by GC-FID for GB to C40. C6 to C8 by C12-C16, C16-C21, C21-C40 E004 Soil D Fraction Organic Carbon (FGO) Determination of TOC by combustion analyser. E027 Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGO) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon Determination of arganic carbon by oxidising with potassium dichromate followed by (CP-OES E025 Soil D Magnetium: Water Soulbe Determination of waters soulbe magnetium by extraction with water followed by (CP-OES E025 Soil AR Mineral Oil (C10 - C40 Determination of maters by acqueragia digestion followed by UP-OES E002 Soil AR Mineral Oil (C10 - C40 Determination of mater by acqueragia digestion followed by UP-OES E0025 Soil								
Soli AR EPH TEXAS (C6-C8, C8-C10, C10-C12, Determination of acetone/hexane extratable hydrocarbons by GC-FID for C8 to C40, C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of ToC by combustion analyser. E027 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of Graphic combustion analyser. E027 Soli D TOC (Fraction Organic Carbo) Determination of Graphic carbon by oxidining with potassium dichromate foilowed by tratas with inn (11) subplate E028 Soli D Loss on Ignition @ 4500. Determination of matels by acue-regis digestion followed by UCP-OES E025 Soli D Magnesium - Water Soluble Determination of matels by acue-regis digestion followed by UCP-OES E026 Soli D Magnesium - Water Soluble Determination of matels by acue-regis digestion followed by UCP-OES E029 Soli D Matter Soluble Determination of natas by acue-regis digestion followed by UCP-OES E029 Soli D Nitrate - Water Soluble Determination of natas by acatrecalin with								
Soli AR C12-C16, C12, C12-C10, Peadsace GC-MS Etonic Soli D Floxion Crashic Stubble Determination of TOC by combustion analyser. E009 Soli D Floxion Crashic Stubble Determination of TOC by combustion analyser. E027 Soli D Organic Karton (FOC) Determination of TOC by combustion analyser. E027 Soli D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbon thrainston of annonium by discrete analyser. E029 Soli D Loss on Ignition (# 4500 Determination of raction of organic carbon by oxidantion with the sample being ignited in a muffle E010 Soli D Magnesium - Water Soluble Determination of mesane/acetone extractable hydrocarbons by CP-OES E022 Soli AR Mineral OII (C10 - C40) Metais betermination of mesane/acetone extractable hydrocarbons by GC-HD fractionating with SPE E004 Soli AR PAH - Speciated (EPA 10) Determination of Altrace by extraction with water failusing with potassium dichromate followed by Utrabin with PAH - Speciated (EPA 10) E003 Soli AR PAH - Speciated (EPA 10) De	Soil	AR			E004			
Sell D Cl2Cl6, (DeC/L D1-CJ1, Cl-Cl3) Badgade SL-MS Endoge Cl2Cl6, Cl2Cl6, Cl2Cl7, Cl2Cl6, Cl2Cl7,	Soil	AR			E004			
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. EE27 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. EE27 Soil AR Exchangeable Annonum Determination of TOC by combustion analyser. EE23 Soil D FOC (Fraction Organic Carbon) Determination of Taction of organic carbon by oxidiang with potassium dichromate followed by E010 Soil D Loss on Ignition (@ 450c) Determination of faction of organic carbon by oxidiang with potassium dichromate followed by ICP-OES E023 Soil D Magnesium - Water Soluble Determination of hexane/accence extractable hydrocarbons by GC-FID factionating with SPE E000 Soil AR Mineral OII (C10 - C40) Cartidge E003 Soil D Nitrate - Water Soluble C21) Determination of ractice performination of ractice performination of ractice performance actractable hydrocarbons by GC-FID factionating with SPE E004 Soil AR Mineral OII (C10 - C40) Cartidge E003 Soil D Organic Mater Misture content, determined gravimetrically E003 Soil								
Soil D Organic Matter (SON) Determination of TOC by combustion analyser. EE27 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soil D TOC (Teld Organic Carbon) Determination of ammonium by discrete analyser. E029 Soil D Loss on Ignition (@ 45000 Determination of asson ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Viers Soluble Determination of metals by aquar-regia digestion followed by ICP-OES E025 Soil AR Mineral Oil (C10 - COP Determination of neural evacuton with water followed by ICP-OES E000 Soil AR Mineral Oil (C10 - COP Determination of neural evacuton with water followed by ICP-OES E003 Soil AR Mineral Oil (C10 - COP Determination of neural evacuton with water soluble manesca by ion chronatography E003 Soil AR PAH - Speciated (EPA 10 Determination of natrate by extraction with water followed by GC-MS with the control in actone and hexane followed by GC-MS with the control is actone and hexane followed by GC-MS with the control in actone and hexane followed by GC-MS with the conto actone and hexane followed by GC-MS with the cont								
Soil D TOC (Total Organic Carbon) Determination of monitonin by determination analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of manonium by determination of moniton by determination of manonium by determination of manonium by determination of matching with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of matching by advanced ignestion followed by (ICP-OES) E025 Soil D Magnesium - Water Soluble Determination of matching by advanced ignestion followed by (ICP-OES) E002 Soil AR Mineral OII (C10 - C40) Petermination of matching by advanced ignestion followed by (ICP-OES) E003 Soil AR Moineral OII (C10 - C40) Petermination of relates by extraction with water & analysed by ion chromatoraphy E003 Soil D Organic Matter Organic Matter Total advance E003 Soil D Organic Matter Metanistion of PAH compounds by extraction with water & analysed by ion chromatoraphy E005 Soil AR PAH - Speciated (EPA 16) E004 by extraction with advance followed by GC-MS with the total fononohycin by extraction with advance followed by GC-MS with the total advance followeid by CA								
Soil AR Exchangeable Ammonium Determination of ammonium by discrete analyser. ED29 Soil D FOC (Fraction Organic Carbon, Dietermination of articon of particon or box solising with potassium dichromate followed by UDP-OES ED10 Soil D Magnesium - Water Soluble Extermination of water soluble manesium by extraction with water followed by UDP-OES ED02 Soil AR Mineral Oil (CI) - C40) Metals Determination of water soluble manesium by extraction with water followed by UDP-OES ED02 Soil AR Mineral Oil (CI) - C40) Eemination of metals by aquarregia digestion followed by UDP-OES ED03 Soil AR Mineral Oil (CI) - C40) Eemination of metals by aquarregia digestion followed by UDP-OES ED04 Soil AR Mineral Oil (CI) - C40) Eemination of mitate by extraction with water followed by UDP-OES ED04 Soil D Nitrate - Water Soluble (CI) Determination of ritrate by extraction with water followed by UDP-OES ED04 Soil AR PAH - Speciated (EPA 16) EE004 ED04 Soil AR PAE-Science ED04 ED05 Soil AR					-			
Soll D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soll D Loss on Ignition @ 450cc Determination of the son ignition in soll by gravimetrically with the sample being ignited in a muffle E019 Soll D Magnesium - Water Soluble Determination of metals by aguar-regia digestion followed by (2P-OES) E002 Soll AR Mineral OII (C10- C40) Determination of metals by aguar-regia digestion followed by (2P-OES) E003 Soll AR Mineral OII (C10- C40) Determination of netable by extraction with water followed by UT-POES E003 Soll AR Moisture content; determined gravimetrically E003 Soll D Organic Matter Determination of netable by extraction with water followed by UT-POES E003 Soll AR PAH - Speciated (EPA 16) Determination of netable by extraction with water followed by GC-MS with the E005 Soll AR PCE - 7 Congerem Veteor Soluble (21) Determination of netable addrads E001 Soll AR PCE - 7 Congerem Veteor Soluble (21) Determination of netable addrads E007 <td></td> <td></td> <td></td> <td></td> <td></td>								
Soil D Loss on Ignition @ 450c Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Moisture Content, determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of nexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR PAH - Speciated (PPA 16) E003 Soil AR PAH - Speciated (PPA 16) Determination of norganic matter by extraction with water & analysed by ion chromatography E005 Soil AR PAH - Speciated (PPA 16) Determination of PAH compounds by extraction with actare followed by GC-MS E005 Soil AR Phenols - TCangeners Determination of hexal system E001 Soil AR Phenols - TCangeners Determination of phenols by distilistion followed by ice-MS E004 Soil				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by				
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of metals by aux-regia digeston followed by ICP-OES E003 Soil AR Moisture Content Moisture Content, determination of metals by aux-regia digeston followed by ICP-OES E003 Soil AR Moisture Content, determination of mate by extraction with weter 8 analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by the thromate followed by the thromate followed by the thromate followed by CC-MS with the followed by CC-MS with the followed by CC-MS with the set of surrogate and internal standards E003 Soil AR PAH - Speciated (PEA 16) Determination of PAH compounds by extraction with petroleum ether E001 Soil AR PHenols - To congeners Determination of phenols by distillation followed by ion chromatography E003 Soil AR Phenols - Tode (monohydric) Determination of vater followed by colorimetry E001 Soil AR Phenols - Tode (monohydric) Determination of subret soluble exit by extraction with weter K analysed by i	Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle	E019			
Soil D Metals Determination of metals by aqua-regid digestion followed by CP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-HD fractionating with SPE cartifage E003 Soil AR Moisture Content, Moisture content, determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of rurate by extraction with water & analysed by ion chromatography E009 Soil AR PAH - Speciated (EPA 16) Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAE by extraction with acetone and hexane followed by GC-MS E008 Soil AR PCI0=17 Congeners Determination of water soluble (2:1) Determination of pusp tate by extraction with netwater & analysed by ion chromatography E001 Soil AR Phenols - Total (monbydric) Determination of pusp tate by extraction with netwater & analysed by ion chromatography E003 Soil D Phrephate - Water Soluble (2:1) Determination of rosphate by extraction with netwater & analysed by ion chromatography E003 Soil D </td <td>Soil</td> <td>D</td> <td>Magnesium - Water Soluble</td> <td></td> <td>E025</td>	Soil	D	Magnesium - Water Soluble		E025			
Soil AR Mineral OII (C10 - C40) articidag Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE articidag E003 Soil AR Moisture Content								
Soil AR Moisture Content, Moisture content, determined gravinetically. E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography. E009 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction in acetone and hexane followed by GC-MS with the get of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS with the get of surrogate and internal standards. E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS (E008 E008 Soil AR Phenols - Total (monohydric) Determination of PAB by addition of water followed by iconvinetir measurement. E001 Soil D Phosphate (as SO4) - Total (monohydric) Determination of total subphate by extraction with water 8 analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of total subphate by extraction with water followed by ICP-OES E013 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water followed by ICP-				Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE				
Soil D Nitrate - Water Soluble (2:1) Determination of nitrate by extraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PRE0-F Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR Phenols - Total (monohydric) Determination of PAH compounds by extraction with acet 8 analysed by ion chromatography E009 Soil D Phenols - Total (monohydric) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water 8 analysed by ion chromatography E009 Soil AR	Soil	AR	Moisture Content		F003			
SoilDOrganic Matter Ion (11) sulphate ion (12) sulphate ion (12) sulphate ion (12) sulphateExternination of organic matter by oxidising with potassium dichomate followed by tGr-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the ie of surpader and internal standardsExternination of PAH compounds by extraction with acetone and hexane followed by GC-MSEtonsSoilARPheroleum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by ICP-OESEtonsSoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryEtonsSoilDPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryEtonsSoilDSulphate (as SO4) - Vater Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyEtonsSoilDSulphate (as SO4) - Water Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtonsSoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyEtons								
SoilARPAH - Speciated (EPA 16)Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standardsE005SoilARPCB - 7 CongenersDetermination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of PLB by extraction with pub electrometric measurementE007SoilDSulphate (as SO4) - Total Determination of phosphate by extraction with Nwater & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Nwater & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with Nwater & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SOK)Sulphate (as SOK)E004E017SoilDSulphate (as SOK)Certermination of trait sulphur by extraction with acua-regia followed by acidification followed byE017 <td></td> <td>D</td> <td></td> <td>Determination of organic matter by oxidising with potassium dichromate followed by titration with</td> <td></td>		D		Determination of organic matter by oxidising with potassium dichromate followed by titration with				
SoilARPCB - 7 CongenersDetermination of PCB by extraction with actone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of pit by addition of water followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of posphate by extraction with water & analysed by ion chromatographyE003SoilDSulphate (as SO4) - TotalDetermination of sulphate by extraction with water & analysed by ion chromatographyE003SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SCN)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of organic compounds by extraction in acestor and hexane followed byE007 <td< td=""><td>Soil</td><td>AR</td><td>PAH - Speciated (EPA 16)</td><td>Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the</td><td>E005</td></td<>	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005			
SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE021SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARChrocyanate (as SCH)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetric determined through extraction with tolueneE011SoilDToluene Extractable Matter (TEM)Gravimetric determined through extractable	Soil	AR	PCB - 7 Congeners		E008			
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of total sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE018SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with avater followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of total sulphare by extraction with avater followed by ICP-OESE013SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetics soda followed by ICP-OESE024SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPEE014<	Soil	D			E011			
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of subphate by extraction with 10% HCl followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of subphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of subphate by extraction with aquar-engia followed by ICP-OESE014SoilDSulphate (as SO4) - Votate Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE009SoilARSVOCDetermination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) CI0-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C3, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C44. C5 to C8 by headspa	Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007			
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCl followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - TotalDetermination of sulphate by extraction with aqua-regia followed by ICP-OESE024SoilDSulphate (as SO4)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of organic carbon unclosed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, c12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS	Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021			
SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble)Determination of total sulphur by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (11) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C36, C35-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C1								
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE018SoilARSulphur Determination of sulphide by distillation followed by colorimetryE018SoilARSulphur - TotalDetermination of sulphide by extraction with aqua-reqia followed by ICP-OESE024SoilARCharacter SourceDetermination of sulphide by extraction with aqua-reqia followed by ICP-OESE026SoilARThiocyanate (as SCN)Determination of thicxyanate by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, c12-C16, C			Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES				
SoilARImage: AREndition of sulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARComparity of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal organic Carbon (TCO)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE011SoilDTotal Organic Carbon (TCO)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C10-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, <b< td=""><td></td><td></td><td></td><td></td><td></td></b<>								
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCCMSDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with to III sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, c12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, carc C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, betermination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE carc C5-C7, C7-C8, C8-C10, C10-C12, c12-C16, C16-C21, C21-C35, C35-C44, carc data carc d								
SoilARControl Control Contro								
SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, c12-C16, C16-C21, C21-C35, C35-C44,Determination of hoxane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC				Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by				
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	-			Determination of thiocyanate by extraction in caustic soda followed by acidification followed by				
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, petermination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001								
SoilDTotal Organic Carbon (TOC) iron (II) sulphateTotal Organic Carbon (TOC) iron (II) sulphateEDIOSoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	5011	U	I Oluene Extractable Matter (TEM)		EUII			
SoilARC10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARC00CSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Total Organic Carbon (TOC)		E010			
SoilARC10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,		E004			
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001	Soil	AR	C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS				
		AR			E001			

D Dried AR As Received

Page 5 of 5



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd Unit 1 Rose Lane Industrial Estate Rose Lane Lenham Heath Kent ME17 2JN t: 01622 850410

DETS Report No: 23-13673

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231102
Sample Receipt Date:	06/11/2023
Sample Scheduled Date:	06/11/2023
Report Issue Number:	1
Reporting Date:	10/11/2023

Authorised by:

Sil

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.





Soil Analysis Certificate					
DETS Report No: 23-13673	Date Sampled	02/11/23	02/11/23	02/11/23	
Green Earth Management Co Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	
Site Reference: Blofield	TP / BH No	Plot 3 TS	Plot 3 TS	Plot 3 TS	
Project / Job Ref: 1935	Additional Refs	E1	E2	E3	
Order No: 1935 231102	Depth (m)	0.00 - 0.20	0.00 - 0.20	0.00 - 0.20	
Reporting Date: 10/11/2023	DETS Sample No	683978	683979	683980	

	Determinand	Unit	RL	Accreditation					
	Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected		
A	nalytical results are expressed on a dry weight	basis where samples are ass	isted-dried at	t less than 30°C. The	Method Description pa	ge describes if the tes	t is performed on the d	ried or as-received por	rtion

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-13673
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231102
Reporting Date: 10/11/2023

Sale D Born : Ward Soluble Determination of Ward solub Into water soluble hours in all by 21 hold water and at Gives ID VI-OES. CO12 Sale D Cattors Determination of Tarts by handpace CA-OS Exclusion	Matrix	Analysed	Determinand	Brief Method Description	Method
Gui AR ITEX Determination of GITEX by backgapes GC-MS E001 Soil D Callonds Hearmation of callonia usib ysame and degution followed by CIP-OES E002 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Chonnia - Networked by Lip-OES E003 Soil AR Conniets - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Control - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Control - Complex Determination of candic by distillation followed by colonnety E013 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conduction Determination of electrical conduction by addition of value followed by GC-MD E004 Soil AR Electrical Conductin by Determination of electrical conductin by addition f	Soil	On	Boron - Wator Solubla	Determination of water coluble baren in cell by 2:1 bet water extract followed by ICD OES	No
Soil D Cettors Distantaneous of cattors in soil to squar-nega dispetitor followed by (20-06) E000 Soil AR Ortomium - Hoxaveler, Destimation of hearwaler chromum in soil by searaction in water they additation, addition of end of the end of th					-
501 D Oblidie - Wale Soluble (2): Determination of choirable petratacion with wate 8 analysed by ion chromatography 500 601 AR Oromium - Housevaler, Chromium is obly extraction in water then by additication, Addition of 10, 10 601 601 AR Oromium - Housevaler, Chromite in sol by extraction with vectormetry. 601 601 AR Orodination - Trad Determination of the advised chromite by addition of invector by colormetry. 601 601 AR Orderate - Trad Determination of the advised chromite by addition of invector advised acidum soluble tradication advised chromatic acidum soluble tradication advised to a solubal chromatic acidum solubal chromatichromatic acidum solubal chromatic acidum solubal chr					
Soli AR Chromum - Hexavelet Determination of hexavelet dremmin ms oil by scheduler in wolter then by sciellington, addition of soli AR Construction Ensite Soli AR Caradia - Complex Determination of scale (AR Construction of the scale (AR) Ensite Soli AR Caradia - Reg Edetermination of rescande by distillation followed by colorimetry EDIS Soli AR Deself Range Organics (EI) - CAR AD Editation followed by colorimetry EDIS Soli AR Distelf Range Organics (EI) - CAR AD Electrical Conductivity Editation followed by CCHD EDIS Soli AR Electrical Conductivity Electrical conductivity by addition of water followed by CCHD EDIS Soli AR Electrical Conductivity Ediscontentic measurement EDIS Soli AR EPH totacit ID Electrical Conductivity by addition of water followed by CCHD EDIS Soli AR EPH totacit ID Electrical Conductivity EDIS EDIS Soli AR EPH totacit ID Electrical Conductivity EDIS EDIS Soli D EDIS					
Sail AR Openation Openation<				Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	
Soil AR Cynamic - Tree Determination of the cynamic by dolling followed by colorinnetry. EDIS Soil D Cycbheame Extractable Matter (CEH) Growindreally determined through extraction with cycloheame. EDIS Soil AR Deserf Earcy Condition EDIS EDIS Soil AR Electrical Conductivity Editation followed by colorinnetry. EDIS Soil AR Electrical Conductivity Determination of electrical conductivity by addition of vaster followed by electrometric measurement. EDIS Soil AR Electrical Conductivity Determination of electrical conductivity by advet evaluation followed by Col CHS EDIS Soil AR Electrical Conductivity Determination of electrical conductivity by advet evaluation followed by Col CHS EDIS Soil AR EHT TEAK (CE), CC IC CLI (CL) (CDI (CE) testermination of electrical conductivity by advet evaluation followed by Col CHS EDIS Soil D Fraction Organic Carbon (FCC) testermination of ToC try combustion analyser. EDIS Soil D Fraction Organic Carbon (FCC) testermination of ToC try combustion analyser. EDIS Soil D Fracti	Soil	ΔR	Cvanide - Complex		E015
Sail AR Cyclobiases Extractable Mater (CB) Gravitisticity distillation followed by coorinnerly. E011 Sail AR Dissel Range Organics (CID - C2) Determination of beam/extende water. (Columbus of subursted calcum subplate followed by CD22 Extra conductivity distribution of electrical conductivity by addition of subursted calcum subplate followed by CD22 Sail AR Electrical Conductivity Determination of electrical conductivity by addition of subursted calcum subplate followed by CC-MS E023 Sail D Electrical Conductivity Determination of electrical conductivity by addition of water followed by CC-MS E023 Sail AR Electrical Conductivity Determination of accomplexame extractable hydrocarbors by CC-MD E004 Sail AR EPH TEXAS (CP-C3, C3-C10, C1-C10) Determination of accomplexame extractable hydrocarbors by CC-MD E004 Sail D First Condo Cascular Cascular by advance carbacity advance carbacity advance carbacity by advance carbacity by advance carbacity advance carbacity advance carbacity advance carbacity by advance carbacity by advance carbaci					
Soil D Cockbearse Extractable Nater (CEN) Gravimetrically determined through extraction with cycloheane					
Soil AR Desel Range Organics (C10 - C20) Determination of hexane/actore extractable hydrocarbors by CC-FID ED00 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of subtracted calcium subplete followed by electrometric E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soil AR EPH TED4K C3C B-C10, C1-C40) Determination of actore/measure extractable hydrocarbors by CG-FID E004 Soil AR EPH TED4K C3C B-C10, C1-C40) Determination of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of actore/measure extractable hydrocarbors by CG-FID E004 Soil D Firation Conductivity Endotion of TCC by combastion analyser. E002 Soil D Firation Conductity Endot Conductivity Endotion conductivity Endotion analyser.<			Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	
Sail AR Electrical Conductivity Description Electrical Conductivi	Soil	AR			E004
Sol D Elemental Solution enternation of elemental solution y advance extraction followed by CC-MS ED30 Sol AR EPH Fractor ED ED30 ED34 ED41 ED34 ED34<	Soil	AR	Electrical Conductivity		E022
Soil AR EPH (Cio - Ca0) Determination of actors/hexane extratable hydrocarbons by GC-FID E004 Soil AR EPH TEXAS (GC-G, GC-GL) E004 E004 Soil AR EPH TEXAS (GC-G, GC-GL) E004 E004 Soil D Fluctude - Water Soluble Determination of acetors/hexane extratable hydrocarbons by GC-FID for CB to C40. C5 to CB by E004 Soil D Fluctude - Water Soluble Determination of TOC by combustion analyser. E027 Soil D TOC (Tradi Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E027 Soil D FOC (Fracin Organic Carbon) Determination of tocs on publicity analyser. E023 Soil D Loss on Ignition (9 450C Charbon Determination of metals by aqua-regai digetion followed by ICP-OES E002 Soil D Magnesium - Water Soluble Determination of nearea/scatce certractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral Oil (C10 - Ca) <td>Soil</td> <td>AR</td> <td>Electrical Conductivity</td> <td>Determination of electrical conductivity by addition of water followed by electrometric measurement</td> <td>E023</td>	Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil AR EPH Product ID Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D FPH TEXS (SC-G3, GS-ID, (C) C12), Determination of acctors/hexane extractable hydrocarbons by GC-FID E004 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E007 Soil D Fraction Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon (FGD) Determination of Totacin or organic carbon by oxidising with potassium dichromate followed by (EPC-FS) E027 Soil D Loss on Ignition (# 94500C Determination of maters shall be pare-impaid digestion followed by ICP-CFS E002 Soil D Meansel by Carbon on the tarbon of a soil by Carbon on the tarbon on tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on the tarbon on tarbon on the tarbon on tarbon	Soil	D			E020
Sol AR EPH TEXAS (C6-C8, C8-C10, C10-C12, Determination of acetom/phesane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by E004 Soli D Flucride - Water Soluble Determination of ToC by combustion analyser. E007 Soli D Flucride - Water Soluble Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Ammonium Determination of ToC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbo) Determination of Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Loss on Ignition @ 4500. Determination of action Gragnic carbon by oxidising with potassium dichromate followed by E029 Soli D Magnesium - Water Soluble Determination of nectals by acua-regis digestion followed by UC-DES E002 Soli AR Mineral Oil (1.01 - c40) Determination of action carbons by dick-FID for CHD fractionating with SPE E004 Soli AR Mineral Oil (1.01 - c40) Determination of action carbons by CF-HD for CHD for store and hexane followed by CF-HD for CHD for store and hexane followed by GC-HD for chD carbon carbons analysed by ion chromatography E003 <td>Soil</td> <td>AR</td> <td>EPH (C10 – C40)</td> <td>Determination of acetone/hexane extractable hydrocarbons by GC-FID</td> <td>E004</td>	Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soli AR C12-C16, C12, C12-C10, Paddsace GC-MS E000 Soli D Floxion Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E007 Soli D Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli AR Exchangeable Annonium (Determination of TOC by combustion analyser. E029 Soli D FOC (Fraction Organic Carbon) Determination of raction of os on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Determination of metals by acutarcias with water followed by ICP-OES E002 Soli D Magnesium - Water Soluble Determination of Interact soluble hydrocarbons by GC-IDI fractionating with SPE E004 Soli AR Mineral OII (C10 - O40) Petermination of Interact by extraction with water Analysed by ion chromatography E003 Soli AR PAH - Speciatel (EPA 16) E004 E004 <td>Soil</td> <td>AR</td> <td>EPH Product ID</td> <td>Determination of acetone/hexane extractable hydrocarbons by GC-FID</td> <td>E004</td>	Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil D Cl2Cl6, L02/L02/L02/L02/L02/L02/L02/L02/L02/L02/	Soil	۸D	EPH TEXAS (C6-C8, C8-C10, C10-C12,	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by	E004
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Annonuum Determination of ToC by combustion analyser. E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxiding with potassium dichromate followed by E010 Soil D Loss on Ignition @ 4500 Determination of fraction of vaster soluble magnesium by extraction with water followed by ICP-OES E002 Soil D Magnesium - Water Soluble Determination of hexane/acctone extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral Oil (C10 - C40) Artifage E003 Soil AR Moisture Content Moisture content, determined gravimetrically E003 Soil D Organic Mater Determination of PAI computed by extraction in water followed by CC-MS with the followed by CC-MS with					
Soil D Organic Matter (SOM) Determination of TOC by combustion analyser. [E027] Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E027] Soil D FOC (Fraction Organic Carbon) Determination of a monium by discrete analyser. [E029] Soil D Magnesium - Vater Soluble Determination of rease / soluble magnesium by extraction with three sample being ignited in a muffle [E019] Soil AR Mineral Oil (C10 - C40) Metas Determination of meane / sociato metas with water followed by ICP-OES [E003] Soil AR Mineral Oil (C10 - C40) Metas Determination of neane / sociato metas with water analysed with metas muther soluble (211) Determination of neane / sociato metas with analysed with on chronateoraphy. [E003] Soil AR Mineral Oil (C10 - C40) Organic Matter Determination of Phace Action with water analysed with chronater followed by GC-MS [E003] Soil AR PAH - Speciated (EPA 16) Determination of Phace Action with actore and hexane followed by GC-MS [E004] Soil AR <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Soil D TOC (Total Organic Carbon) Determination of mominum by discrete analyser. F027 Soil AR Exchangeable Ammonium Determination of amonium by discrete analyser. F029 Soil D FOC (Fraction Organic Carbon) Determination of maritor of organic carbon by oxidising with potassium dichromate followed by EP-0ES E019 Soil D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by ICP-0ES E025 Soil AR Mineral OII (C10 - C40) Petermination of mater by by extraction with water followed by ICP-0ES E002 Soil AR Mineral OII (C10 - C40) Petermination of mater by extraction with water followed by ICP-0ES E002 Soil D Nitrate - Water Soluble (21) Determination of mater by extraction with water followed by ICP-0ES E003 Soil D Organic Matter Organic Matter Petermination of mater by exidenic with water followed by ICP-0ES E003 Soil AR PAH - Speciated (EPA 16) Petermination of mater by exidenic mater followed by ICP-0ES E003 Soil AR PEE - 7 Congeme Determination of Mater by exidenin in a coll sup					
Soil AR Exchangeable Ammonium Determination of rancino of position of position carbon by oxidising with potassium dichromate followed by E029 Soil D FOC (Fraction Organic Carbon) Determination of fraction of foss on ignition in soil by gravimetrically with the sample being ignited in a muffle E010 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral OII (CIO - C40) Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Mineral OII (CIO - C40) Determination of meane/acatone extractable hydrocarbons by CG-FID fractionating with SPE E004 Soil AR Mineral OII (CIO - C40) Determination of fraction with water & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (21) Determination of TAB by extraction with actone and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of TAB by extraction with actone and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with actaben and hexane followed by ICP-OES E					-
Solit D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Solit D Loss on Ignition @ 450x Determination of matics with incluin Sulphate Determination of matics with incluin Sulphate E019 Solit D Magnesium - Water Soluble Determination of mater soluble magnesium by extraction with water followed by UCP-OES E002 Solit AR Mineral OII (C10-C40) Determination of maters by extraction with water followed by UCP-OES E003 Solit D Nitrate - Water Soluble (21) Determination of mater by extraction with water followed by UCP-OES E003 Solit D Nitrate - Water Soluble (21) Determination of mater by extraction with water f analyzed by ion chromatography E003 Solit AR PAH - Speciated (EPA 16) Betrimination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the E005 E004 Solit AR PCB - 7 Congerne Auter (PEE For Coll by estimation of PAH compounds by extraction with water followed by GC-MS with the E005 E004 Solit AR PDE - 7 Congerne Auter (PEE For Coll by estimation of Mater followed by inchromatography E001					
Soil D Loss on Ignition Q 4500c Etermination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Cetermination of water soluble magnesium by extraction with water followed by ICP-OES E022 Soil AR Mineral Oil (C10 - C40) E004 E004 Soil AR Mineral Oil (C10 - C40) Catridge E003 Soil AR Mineral Oil (C10 - C40) Catridge E004 Soil D Nitrate - Water Soluble (C11) Determination of nitrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Mattr Entermination of PAI compounds by extraction in actione and hexane followed by GC-MS with the E005 Soil AR PAH - Speciated (EPA 16) E014 compounds by extraction with actione and hexane followed by GC-MS with the E005 Soil AR Petroleum Ether Extract (PEE) Gravimetrically determination of PAI compounds with action analysed by ion chromatography E001 Soil AR Phenols - Total (monohydric) Determination of analysed by extraction with water & analysed by ion chromatography E001 Soil				Determination of fraction of organic carbon by oxidising with potassium dichromate followed by	1
Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by aqua-regia diguestion followed by ICP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/actome extractable hydrocarbons by GC-RD fractionating with SPE cartridge E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titraton with e003 E003 Soil D Organic Matter Determination of PAH compounds by extraction with water & analysed by ion chromatography E003 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with petroleum ether E004 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds to water followed by GC-MS with the E005 Soil AR PHenols - Total (monohydic) Determination of water followed by colorimetry E001 Soil AR Phenols - Total (monohydic) Determination of valatilitation followed by colorimetry E001 Soil AR Phenols - Total (monohydi			,		
Soil D Metals Determination of metals by aqua-regia digastion followed by ICP-OES E002 Soil AR Mineral Oil (Cl0 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-HD fractionating with SPE E004 Soil AR Moisture Content Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of furtate by extraction with water & analysed by ion chromatography E009 Soil AR PAH - Speciated (EPA 16) Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PAH - Speciated (EPA 16) Determination of PAH by extraction with acetone and hexane followed by GC-MS E008 Soil AR PAtroleum Ether Extract (PEE) Determination of soganic charge by extraction with water & analysed by ion chromatography E001 Soil AR Phenols - Total (monhydirc): Determination of by extraction with water & analysed by ion chromatography E003					
Soil AR Mineral OII (C10 - C40) cartidge Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartidge E004 Soil AR Moisture Content, Moisture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of ruganic matter by oxidising with potassium dichromate followed by thration with tron (11) subhate E009 Soil AR PAH - Speciated (EPA 16) Use of surrogate and internal standards. E005 Soil AR PCB-7 Congenes Edetinination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E003 Soil AR PCB-7 Congenes Edetinination of PCB by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards. E0004 Soil AR Phenols - Total (monohydric) E001 E001 Soil AR Phenols - Total (monohydric) Betermination of total suphate pictor on thoreat subset by contractive with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Total Determination of subploate by extraction with water & analysed by ion chromatography E003 Soil D					
Soli AR Imineration (C10-C40) artridge artridge ED04 Soli D Nitrate - Water Soluble (2:1) betermination of nurate by extraction with water & analysed by ion chromatoaraphy ED03 Soli D Organic Matter ron (11) subplate Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the betermination of PAI compounds by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR PAH - Speciated (EPA 16) betermination of PAB by extraction with actone and hexane followed by GC-MS ED03 Soli AR Phenoles - Total (monohydric) Determination of Phosphate by to colorimetry ED01 Soli AR Phenoles - Total (monohydric) Determination of botal subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Determination of subplate by extraction with water & analysed by ion chromatography ED03 Soli D Sulphate (as SO4) - Water Soluble (21) Deter	Soil	D	Metals		E002
Soil D Nitrate - Water Soluble (2:1) Determination of nitrate by extraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by titration with torn (11) sulphate E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS E006 Soil AR PCB - 7 Congeners Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Phenols - Total (monohydric) Determination of pAH compounds the vartaction with herase analysed by ion chromatography E009 Soil D Phenols - Total (monohydric) Determination of total subplate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subplate by extraction with water & analysed by ion chromatography E009 Soil AR Sulphate (as SO4) - Water Soluble (2:1) Determination of subphate by extraction with water & analysed by ion chromat			, ,	cartridge	
SoilDOrganic Matther Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (III) sulphate ion (III) sulphate ion (III) sulphateDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE010SoilARPAH - Speciated (EPA 16) use of surroacte and internal standardsDetermination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surroacte and internal standardsE000SoilDPetroleum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by electrometric measurementE001SoilARPhenols - Total (monohydric) Determination of phenols by distiliation followed by colorimetryE002SoilDPhosphate - Vater Soluble (21) Determination of total sulphate by extraction with water 8 analysed by ion chromatographyE009SoilDSulphate (as SO4) - Vater Soluble (21) Determination of soulphate by extraction with water followed by ICP-OESE013SoilARSulphide Determination of semi-voluble sulphate by extraction with water followed by ICP-OESE024SoilARSulphide Sulphur Total Determination of ferric nitrate followed by colorimetryE019SoilARThiocyanate (as SCN) Co-MSDetermination of organic campounds by extraction with tolueneE011SoilARThiocyanate (as SCN) Co-MSDetermination of organic campounds by extraction with acuteregin followed by ICP-OESE024SoilARThiocyanate (as SCN) Co					
Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MS E008 Soil D Petroleum Ether Extract (PEE) Gravimetrically determined through extraction with petroleum ether E011 Soil AR Phenols - Total (monohydric) Determination of PLB by extraction with water followed by clerometric measurement E007 Soil D Phosphate - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E008 Soil AR Sulphate (as SO4) Determination of sulphate by extraction with water & analysed by ion chromatography E004 Soil AR Sulphate (as SO4) Sulphate (as SO4) E017 Soil				Determination of organic matter by oxidising with potassium dichromate followed by titration with	1
SoilARPCB - 7 CongenersDetermination of PCB by extraction with actone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE001SoilARPhenols - Total (monohydric)Determination of pit by addition of water followed by electrometric measurementE007SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphice by extraction with aqua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction in acutos oda followed by ICP-OESE014SoilARSulphate (as SCN)Determination of sulphate by extraction in acutos oda followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of organic campounds by extraction in acutos oda followed by ac	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005
SoilDPetroleum Ether Extract (PE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by electrometryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARChrochystaph	Soil	۸D	PCB - 7 Congonors		E008
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (monolytic):Determination of phenols by distillation followed by colorimetryE021SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphate by extraction with aqua-reqia followed by ICP-OESE024SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE007-OESSoilARThiocyanate (as SCN)Determination of rinitize followed by colorimetryE001SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with aqua-reqia followed by acidification followed by GC-MSE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Intrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC) </td <td></td> <td></td> <td></td> <td></td> <td></td>					
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with aua-regia followed by ICP-OESE024SoilARSulphate (as SC4)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of firct intrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ron (II) sulphateE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21,					
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of sulphate by extraction with analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate - Total Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE009SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with addition of foran organic matter by oxidising with potassium dichromate followed by titration with addition of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TCC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C21-C21, C21-C23, arc: C5-C7, C7-C8, C8-C10					
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilDSulphate (as SO4) - TotalDetermination of sulphide by distiliation followed by colorimetryE009SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of function of function and semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with blueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44,					-
SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilDSulphate (as S04) - Water Soluble (2:1)Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as S04)Determination of total sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of thiccyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE011SoilDTotal organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6- C8, C8- C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, 					
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE018SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARStophur - TotalDetermination of sulphur by extraction with aqua-regia followed by acidification followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C34, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21					
SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSvCocDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferri- nitrate followed by colorimetryE006SoilARThiocyanate (as SCN) Toluene Extractable Matter (TEM)Determination of thiocyanate by extraction with tolueneE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C34, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C10-C12, c17-C12, C12-C16, C16-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, c17-C12, C12-C16, C16-C21, C21-C23, c17-C12, C12-C16, C16-C21, C21-C23,<		D			
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		AR			E018
SoilARControl Control Contro		D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
SoilARThiocyalate (a SCN) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryEU17SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilAROVCSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) C10-C12, C12-C16, C16-C21, C21-C35, C35-C44Determination of volatile organic compounds by headspace GC-MSE001	Soil	AR		Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by	E006
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8, C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	AR	Thiocyanate (as SCN)		E017
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arrtidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001	Soil	D	Toluene Extractable Matter (TEM)		E011
SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arritidge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001				Determination of organic matter by oxidising with potassium dichromate followed by titration with	
SoilARC10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS	
			VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried AR As Received



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-14338

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231120
Sample Receipt Date:	22/11/2023
Sample Scheduled Date:	22/11/2023
Report Issue Number:	1
Reporting Date:	29/11/2023

Authorised by:

S.CZ

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.





Soil Analysis Certificate							
DETS Report No: 23-14338	Date Sampled	20/11/23					
Green Earth Management Co Ltd	Time Sampled	None Supplied					
Site Reference: Blofield	TP / BH No	Plot 3 TS					
Project / Job Ref: 1935	Additional Refs	E1					
Order No: 1935 231120	Depth (m)	0.00 - 0.25					
Reporting Date: 29/11/2023	DETS Sample No	686697					

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion								

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-14338
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231120
Reporting Date: 29/11/2023

Soli D Boron - Weite Soluble Determination of Yester soluble hours in solit by 21 hole value rotatal followed by CPC-BS ED12 Soli A.R D Colorade - Water Soluble Determination of Tarkits by haddpace CA-BS ED01 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED04 Chronnum - Neurobia Solubia ED03 ED04 Chronnum - Neurobia Solubia ED03 ED03 <td< th=""><th>Matrix</th><th>Analysed</th><th>Determinand</th><th>Brief Method Description</th><th>Method</th></td<>	Matrix	Analysed	Determinand	Brief Method Description	Method
Soli AR ITEX Determination of UTEX by backgoue CC-45. E001 Soli D Collings Collings E001 Soli D Collings E001 E001 Soli AR Chonnum - Networken is all by age and thread by distillation followed by collings, addition of E005 E005 Soli AR Connum - Networken is all by age and thread by distillation followed by colonnetry E015 Soli AR Connum - Networken is a connet by distillation followed by colonnetry E015 Soli AR Concordenant bits and thread is a connet by distillation followed by colonnetry E015 Soli AR Concordenant bits and thread is a connet by colling of thread by distillation followed by colonnetry E015 Soli AR Electrical conductive December of thread is a connet by colling of thread by distillation followed by colling of t	C 1	On			No
Soil D Cations Determination of cations in sub x aga-read digetion followed by CRES E000 Soil AR Ortonium - Housevelor Determination of housevelor direction by extraction in water that by addication, addicen of the second structure in the second by coherence in the second structure in thesecond struc					-
Soil D Chloride - Wales Soluble (23) Determination of chloride by extraction with water 8 analysed by ion chromatography E009 Soil AR Chromium - Hooswall petermination of hearable chromium is obly extraction in water then by accidication, addition of 1046 E016 Soil AR Chromium - Hooswall petermination of the example by deviniting in soil by extraction with extending by colorinatry. E015 Soil AR Chromite - Trail Determination of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of work train and the example of the example by devinition of the example of					
Sol AR. Chromum - Hexavaler Determination of hexavaler chroma in soil by construct in water that by socialization, addition of soil. AR. Construct - Complex Determination of complex canade by doilingtion fidward by colorinety. ED16 Soil AR. Construct - Complex Determination of complex canade by doilingtion fidward by colorinety. ED15 Soil AR. Determination of three solid thread by colorinety. ED15 Soil AR. Description of the solid conductivity Determination of the conduct conductivity by doiling of statusetid by documents by GC-FID ED04 Soil AR. Electrical Conductivity Determination of electrical conductivity by addition of statusetid by documents by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hy					
Soli Art Untromum - measurement Ellipsi (s) Soli Art Conside - rings Determination of ring cyanide by distilization followed by colorinetry E015 Soli Art Conside - rings Determination of ring cyanide by distilization followed by colorinetry E015 Soli Art Desel Range Organics (C10 - C24) Determination of hearan/sectore extratate hydrocarbons by GC-FID E004 Soli Art Desel Range Organics (C10 - C24) Determination of hearan/sectore extratate hydrocarbons by GC-FID E004 Soli Art Electrical Conductively Determination of electrical subplur by addition of water followed by electrometric measurement E022 Soli Art Electrical Conductively Determination of electrical subplur by solvent obtaction followed by GC-FID E004 Soli Art Electrical Conductively of electrical conductively by addition of followed by GC-FID E004 Soli D Elemental Subplur Determination of action-hearine electrable hydrocarbons by GC-FID E004 Soli Art PHT MSK (GC-G, CB-C1D, C1D-C2) Determination of TC2 by conclusion analyser. E007 Soli D Fination Organic Caber (CC) CD betermination of TC2 by conclusion analyser. E007 <td></td> <td></td> <td>Chionde - Water Soluble (2.1)</td> <td>Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of</td> <td></td>			Chionde - Water Soluble (2.1)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	
Soli AR Opender - Complex Determination of complex oparade by distillation followed by colorimetry EDIS Soli AR Opender - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Opender - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Opender Total Cyande - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Determination of electrical conductivity by addition of water followed by electrometric measurement EDI2 Soli AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by GC-HD EDI0 Soli AR Electrical Conductivity Determination of action-phasene extratable hydrocarbons by GC-HD EDI0 Soli AR EPH Photol (Ch C-CL), Determination of action-phasene extratable hydrocarbons by GC-HD EDI0 Soli AR EPH Photol (Ch C-CL), Determination of Tock to conductive hydrocarbons by GC-HD EDI0 Soli D Fractore Water Soluble Determination of Tock to conductive hydrocarbons by GC-HD EDI0 Soli D Fractore Water Soluble Determination of Tock to conductive analyser.	Soil	AR	Chromium - Hexavalent		E016
Soil AR Cyandia - Free Intermination of free cyandia by detailisticn followed by colorinetry E015 Soil D Cyclobeane Extractable Netture (CEN) Commitching Mediation followed by colorinetry E015 Soil AR Extractable Netture (CEN) Soil Commitching Mediation of Soil (CAR) E022 Soil AR Extractable Nettocolors by CC-FID E004 Soil AR Extractal Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E022 Soil AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by CFID E004 Soil AR EPH TEAK (CEG, CH-C), CL-CH Determination of electrical conductivity by addition of water followed by CFID E004 Soil AR EPH TEAK (CEG, CH-C), CL-CH Determination of addition of water solubation advaces E027 Soil D Fraction Oganic Carbon (FOC) Determination of ToC is on obaction analyses of ana	Soil	AR	Cvanide - Complex	Determination of complex cvanide by distillation followed by colorimetry	F015
Soli AR Cyclobases Extractable Matter (CB) doministry detailing in the cyclobases E011 Soli AR Desel Range Organics (C10 - C4) Determination of hexar (cyclobases by cyclobases) E021 Soli AR Electrical Conductivity Determination of hexar (cyclobases) E021 Soli AR Electrical Conductivity Determination of hexar (cyclobases) E023 Soli AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soli D Elementation of electrical conductivity by addition of water followed by (C-RS E024 Soli AR EPH TEUAS (Cs-C3, CR-C10, C1-C4) Elementation of action phenese extractable hydrocabors by CG-RS E004 Soli D C12-C16, C16-C10, C1-C4) Bettermination of action phenese extractable hydrocabors by CG-RS E027 Soli D Fittodo Cyclobace ECO Determination of action phenese extractable hydrocabors by CG-RS E027 Soli D C12-C16, C16-C1, C1-C40 Determination of TCC by combustion analyser. E027 Soli D Fittodo Cycaboraboraboraborabis (CC-RS)					
Soil D Cyclobearate Estractable Matter (EB) Granulation of the strate of the strat					
Sol AR Electrical Conductivity Determination of electrical conductivity by addition of saturated calcum sulphate followed by E022 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR EPH Production of addition of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR EPH Production Conductivity Electrometrical conductivity	Soil	D			E011
Sol AR Decknol Conductivity Deckno	Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Sail D Elemental Subtra Determination of elemental subtra Determination of actors here estraction for horizontoms by GC-FID E020 Sail AR PH1 Fboduct ID Determination of actors here estraction for horizontoms by GC-FID E024 Sail AR PH1 Fboduct ID Determination of actors here estraction for horizontoms by GC-FID for C8 to C40. C6 to C8 by E004 Sail D FP1 TEXE (C5C, GC-10, C1C) C1D etermination of actors here estraction hydrocarbons by GC-FID for C8 to C40. C6 to C8 by E004 Sail D Fraction Organic Carbon (FOC) Determination of TC0 by combustion analyser. E027 Sail D ToC (ToC1) actermination of a monomination of Actors analyser. E027 Sail D ToC (ToC1) actermination of Actors analyser. E027 Sail D FOC (Fraction Organic Carbon) Determination of Actors analyser. E025 Sail D Loss on lightion # 450c Partial with on (IID autor organic Marter Saulter analyser. E025 Sail D Loss on lightion # 450c Partial watar-registing adjustin for theradic actors watars watar-registing adjustin for theradic actors watars watare analyser. E021 <t< td=""><td>Soil</td><td>AR</td><td>Electrical Conductivity</td><td></td><td>E022</td></t<>	Soil	AR	Electrical Conductivity		E022
Soil AR EPH (C10 – C40) Determination of acctors/hexane extratable hydrocarbons by CC-FID E004 Soil AR EPH TEXAS (C3-C8, C3-C10, C10-C12, Determination of acctors/hexane extratable hydrocarbons by CC-FID E004 Soil AR EPH TEXAS (C3-C8, C3-C10, C10-C12, Determination of acctors/hexane extratable hydrocarbons by CC-FID for C8 to C40. C5 to C8 by E004 Soil D Floradic-Water Soluble Determination of TOC by combustion analyser. E027 Soil D Floradic-Water Soluble Determination of TOC by combustion analyser. E027 Soil D Floradic-MCBD Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E022 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E023 Soil D Loss on Igniton @ 450C Entition of totas to analyser. E023 Soil D Magnesim - Water Soluble magnesium by extraction with water followed by ICP-OES E023 Soil D Magnesim	Soil		,		
Soll AR EPH Product ID Determination of accome/hexane extractable hydrocarbons by GC-FID E004 Soll AR EPH TEXAS (Co-G3, CS-ID, CD-12), Determination of accome/hexane extractable hydrocarbons by GC-FID for CB to C40. C6 to CB by C12-C16, C13-C12, C21-C40, ID C12), Determination of TOC by combustion analyser. E009 Soll D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soll D Organic Martic (SMM) Determination of TOC by combustion analyser. E027 Soll D TOC (Total Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soll D TOC (Total Organic Carbon Determination of ToC by combustion analyser. E029 Soll D Horgen (Karbon Organic Carbon Determination of angain carbon by oxidising with potassium dichromate followed by E0205 E020 Soll D Horgen (Marbon Organic Carbon Determination of Inacto and Inacton analyser. E021 Soll D Horgen (Marbon Organic Carbon Determination of Inacto and Organic Carbon Determination of Inacto and Inacton analyser. E022 Soll D Horgen (Marbon Organic Carbon Determination of Inacto and Organic Carbon Determination of Inacto and Inacto Analysed Determination of PORIC Anadate Analysed Determination of PORIC Anadate Analysed De	Soil				
Sail AR EPH TEAS (C6-G, C8-C10, C10-C12, Determination of acctore/hexane extractable hydrocators by CG-FLD for C8 to C40, C6 to C8 by C12-C15, C16-C12, C12-C19, Determination of TC by conduction with water & analysed by ion chromatography E004 Soil D Fraction (CG) Determination of TC by conduction analyser. E027 Soil D TOGC (Total Organic Carbon (CG) Determination of TC by conduction analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by conduction analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of organic Carbon by oddising with potassium dichromate followed by firation with ing the instance of organic Carbon by oddising with potassium dichromate followed by firation with ing the instance of organic Carbon by oddising with potassium dichromate followed by firation with ing the instance of organic Carbon by oddising with potassium dichromate followed by E0-DES E025 Soil D Magnesium - Water Soluble Determination of neals by acue-regia digestion followed by IDP-DES E026 Soil AR Mineral OI (C10-C40) Determination of neals by acue-regia digestion followed by IDP-DES E026 Soil AR PAH - Speciated (CPA IS) E004 E004 Soil AR PMIeral OI (C10-C40) <td></td> <td></td> <td></td> <td></td> <td></td>					
Soli Ark C12-C16, C12-C12, C12-C10 headsace GC-MS Eurois Soli D Fluoride-Vister Soluble Determination of TOC by combustion analyser. E009 Soli D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli D TOC (Total Organic Carbon (Total Organic Carbon Dy conduction analyser. E023 Soli D FOC (Fraction Organic Carbon Dy conduction analyser. E023 Soli D Loss on Ignition (@ 4500. Determination of fraction of organic carbon by coxidin with the sample being ignited in a muffle E019 Soli D Magnesium - Water Soluble Differentiation of metal soluble hydrocarbon by CP-OES E002 Soli AR Mineral OII (C10 - C40) Petermination of metal by acutacian with anoth solub compact by CP-OES E003 Soli AR Mineral OII (C10 - C40) Petermination of nitrate by extraction with water solubane dy ion chromate organic matter by oxiding with potassium dichromate followed by GC-MS with the compact solubane carbon solub hydrocarbon by GC-MS with PE E003 Soli AR Mineral OII (C10 - C40	Soil	AR			E004
Sol D C12C16, C10-C1, C12C16, C12C14, C12C40, BedSpäce SC-MS End Sol D Fraction Organic Carbon (FOC Determination of TOC by combustion analyse. E029 Sol D Toto organic Carbon (FOC Determination of TOC by combustion analyse. E029 Sol D Toto organic Carbon (FOC Determination of TOC by combustion analyse. E027 Sol AR Exclangeable Ammonium Determination of annohum polycer analyse. E029 Sol D FOC (Fraction Organic Carbon (FOC Determination of a annohum polycer analyse. E029 Sol D Loss on Ignition (@ 4500 Etermination of annohum polycer analyse. E010 Sol D Magnesium. View Soluble Determination of nets on ignition in soil by gravimetrically with the sample being ignited in a muffle E010 Sol AR Mineral OII (C10 - C40) Etermination of nets by aquarengia digestion followed by ICP-OES E002 Sol AR Mineral OII (C10 - C40) Etermination of nates by extraction with water followed by ICP-OES E003 Sol D Organic Mathemation of nates by extraction with water followed by GC-MS with the inn (I) subplate in a muffle in in (I) subplate in a muffle in inn (I) subplate in a muf	Soil	AR			F004
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. EB27 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidiang with potassium dichromate followed by E010 E010 Soil D Loss on Ignition @ 4500 Determination of fraction of owater soluble magnesium by extraction with water followed by ICP-OES E022 Soil D Magnesium - Water Soluble Determination of hexane/accence extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral OII (C10 - C40) Determination of ratic by extraction with water followed by ICP-OES E002 Soil D Nitrate - Water Soluble C21) Determination of ratic by extraction with water followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Cartridge E004 Soil D Organic Mater Missure content, determined gravimetrically E003 Soil <td></td> <td></td> <td>C12-C16, C16-C21, C21-C40)</td> <td>headspace GC-MS</td> <td></td>			C12-C16, C16-C21, C21-C40)	headspace GC-MS	
Soil D Organic Matter (SQM) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of ToC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of tock on lightion in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral OII (CI) - C40) Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral OII (CI) - C40) Determination of magneic matter by coldising with potassium dichromater followed by ICP-OES E004 Soil D Nitrate - Water Soluble (CI) Determination of rightion in a soll by extraction with water followed by ICP-OES E004 Soil AR PAH - Speciated (EPA IG) Determination of TAB compounds by extraction with water followed by ICP-OES E004 Soil AR PAH - Speciated (EPA IG) Determination of T					
Soil D TOC (Total Organic Carbon) Determination of monoium by discrete analyser. E027 Soil AR Exchangeable Ammonium Determination of monoium by discrete analyser. E023 Soil D FPOC (Fraction Organic Carbon) Determination of marino (arbon of granic carbon by oxidising with potassium dichromate followed by ICP-OES E019 Soil D Magnesium - Water Soluble Determination of metals by acuareging digestion followed by ICP-OES E025 Soil AR Mineral OII (C10 - C40) Determination of metals by acuareging digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of metals by acuareging digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of mates by acuareging digestion followed by ICP-OES E003 Soil AR PAH - Speciated (EPAL i) Determination of mates by acuareging digestion followed by ICP-OES E003 Soil AR PAH - Speciated (EPAL i) Determination of mates by acutarion with water K analysed by ion chromatography E003 Soil AR PAH - Speciated (EPAL i) Determination of matherel stranalysing interinal straning i					
Soil AR Exchangeable Ammonium Determination of animonium by discrete analyser. E029 Soil D FOC (Fraction Organic Carbon) Permination of action of on point corbon by oxiding with potassium difformate followed by traction with incn (II) subplate. E010 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral oli (CI) - C40) Eemination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral oli (CI) - C40) Eemination of metals by aquar-regia digestion followed by ICP-OES E003 Soil AR Minaral oli (CI) - C40) Eemination of metals by aquar-regia digestion followed by ICP-OES E004 Soil D Nitrate - Water Soluble (CI) Determination of range in catter by oxiding with potassium dichmorate followed by ICP-OES E009 Soil AR PAH - Speciated (EPA 16) Eemination of AIC by extraction with actone and hexane followed by GC-MS with the torn (II) subplate E003 Soil AR PAH - Speciated (EPA 16) Eemination of PAD by extraction with actone and hexane followed by GC-MS E003 Soil D					
Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soil D Loss on Ignition @ 4500C Determination of hoss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of nearbis by agar-regis digestion followed by ICP-OES E002 Soil AR Mineral OII (C10 - C40) Determination of nearbis by agar-regis digestion followed by ICP-OES E003 Soil AR Molsture Content Metals Determination of threads by agar-regis digestion followed by ICP-OES E004 Soil AR Molsture Content Metals Determination of nutrate by estraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of PAH compaunds by extraction in acetone and hexane followed by GC-MS with the E005 Soil AR PAH - Speciated (FPA 16) Determination of PAH compaunds by extraction with water & analysed by ion chromatography E001 Soil AR Penesis - Total comean followed by GC-MS E008 Soil AR Penesis - Total comean followed by icO-MS <td></td> <td></td> <td></td> <td></td> <td></td>					
Soil D FOC (Fraction Organic Carloo) tratation with iron (11) subpate ⁻ ED10 Soil D Lass on Ignition (0) 4500C Edemination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle fumace. E012 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E023 Soil AR Mineral OII (C10 - C40) Determination of metals by aqua-regize digestron followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of metals by aqua-regize digestron followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of mitate by extraction with votacrosms by GC-FID fractionating with SPE cartifica E003 Soil D Organic Mater Determination of organic matter by oxidising with potassium dicronate followed by GC-MS E009 Soil AR PAH - Speciated (PA 16) Determination of PAE organic Mater E0011 Soil AR PAH - Speciated (PA 16) Determination of PAE organic Mater E0011 Soil AR Phenols - Total (monolydicic) Determination of PAE organimaters E0011	5011	AK	Exchangeable Ammonium		E029
Soli D Loss on ignition (e) solid furnace EDIS EDIS Solid D Magnesium: Water Soluble Determination of metals by aqua-regid aglession followed by ICP-OES E025 Solid D Magnesium: Water Soluble Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE E003 Solid AR Mineral Oil (C10 - C40) Determination of netaals by aqua-regid aglession followed by ICP-OES E003 Solid D Nitrate - Water Soluble (2:1) Determination of netaals by extraction with water & analysed by ion chromatography E009 Solid D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the exit (11) solphate and internal standards. E003 Solid AR PAH - Speciated (EPA 16) Eoremination of PAH compounds by extraction with betroleum ether E001 Solid AR PAH - Speciated (EPA 16) Eoremination of PAH by addition of vater soluble action ether dename followed by GC-MS E004 Solid AR Phenols - Total (monohydric) Eoremination of water soluble etherminet for vater soluble action with agree and internal standards. E004 Solid D Phetoleum Ether E	Soil	D	FOC (Fraction Organic Carbon)	titration with iron (II) sulphate	E010
Soil D Metals Determination of metals by aqua-regid digestion followed by CP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartifoge E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Matter Or Gragine matter by oxidising with potassium dichromate followed by dC-MS with the use of surrogate and internal standards E004 Soil AR PAH - Speciated (EPA 16) Determination of PAE toxpo textmon with accence and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of PAE by extraction with accence and hexane followed by GC-MS E003 Soil AR PERIOR - Toxpogenes Determination of pathetic by extraction with accence and hexane followed by GC-MS E003 Soil D Petroleum Ether Extract (PEE) Determination of phenols by distillation followed by clorimetry E021 Soil AR Phenols - Total (monthydric) Determination of total suphate by extraction with accence and hexane followed by ICP-OES E014 Soil D Phenophate - Water Soluble (2:1)				furnace	
Soil AR Mineral Oil (C10 - C40) articidge Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE articidge E003 Soil AR Moisture Content Moisture content; determination of nutrate by extraction with water & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with performance of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB to extraction with acetone and hexane followed by GC-MS E006 Soil AR PCB - 7 Congenes Determination of PAB to addition of water followed by electrometric measurement E007 Soil AR Phenols - Total (monohydric) Determination of subnite by extraction with acetone with exane shakes by ion chromatography E003 Soil D Sulphate (as SO4) - Total Determination of subnite by extraction with acetone with exane shakes by ion chromatography E003 Soil D Sulphate (as SO4) - Total Determination of subnite by extraction with water 8 analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subnib to extr					
Soil AR mineral Oil (C10 - C40) cartridge ED04 Soil AR Molsture Content Molsture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with e010 E009 Soil AR PAH - Speciated (EPA 16) Determination of PAR tompounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR PAB - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Pheroleu: There Extract (PEB Gravimetrically determined trough extraction with peroleum ether E001 Soil AR Pheroles: Total (monohydric) Determination of phenols by extraction with avet 8 analysed by ion chromatography E003 Soil D Pheroles: Total (monohydric) Determination of botal sulphate by extraction with water 8 analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of botal sulphate by extraction with water 8 analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water 8 analysed by ion chromatography	SOIL	D	Metals		E002
Soil D Nitrate : Water Soluble [2:1] Determination of intrate by extraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by titration with term (1) sulphate E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E001 Soil AR Phenols - Total (monohydric) Determination of phenols by distillation followed by clorimetry E029 Soil D Sulphate (as SO4) - Water Soluble (2):1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2):1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil AR			. ,	cartridge	
SoilDOrganic Matter Ion (11) subhate ion (11) subhate ion (11) subhateEetinSoilARPAH - Speciated (EPA 16) use of surroader and internal standardsDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroader and internal standardsE005SoilARPCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilARPerfolum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by electrometric measurementE007SoilARPhenols - Total (monohydric) Determination of phenols by desitiation folwed by colorimetryE003SoilDPhosphate - Vater Soluble (21) Determination of phenols by desitiation followed by colorimetryE003SoilDSulphate (as SO4) - Vater Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed					
SoilARPAH - Speciated (EPA 16)Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and intermal standardsE005SoilARPCB - 7 CongenersDetermination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of PLB by extraction with public electrometric measurementE007SoilDPhosphate - Vater Soluble (2:1)Determination of phosphate by extraction with Neter & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Neter & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Neter & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SCN)Determination of tal sulphur by extraction with acua-regia followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of semi-volatile organic compounds by extraction in acutos and hexane followed byE007SoilARThiocyanate (as SCN)Determination of ferric nitrate followed by colorimetryE011 </td <td></td> <td></td> <td></td> <td>Determination of organic matter by oxidising with potassium dichromate followed by titration with</td> <td></td>				Determination of organic matter by oxidising with potassium dichromate followed by titration with	
SoilDPetroleum Ether Extract (PED)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by electrometryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE003SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilARThiocyanate (as SCH)Determination of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrical determined through extraction with tolueneE011 <td>Soil</td> <td>AR</td> <td>PAH - Speciated (EPA 16)</td> <td>Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the</td> <td>E005</td>	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (monotydic)Determination of phenols by distillation followed by colorimetryE001SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with now ther & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of fullo yaluphur by extraction with tolueneE017SoilDTotal Organic Carbon (TOC)Determination of nexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C12-	Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of total suphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatographyE018SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of total sulphare by extraction with aqua-regia followed by ICP-OESE024SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE024SoilARThiocyanate (as SC4) Total Organic Carbon (TOCDetermination of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE <b< td=""><td>Soil</td><td>D</td><td>Petroleum Ether Extract (PEE)</td><td>Gravimetrically determined through extraction with petroleum ether</td><td>E011</td></b<>	Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of sulphate by extraction with aquar-eqia followed by ICP-OESE024SoilDSulphate (as SO4) - Total Determination of tal sulphate by extraction with aquar-eqia followed by ICP-OESE024SoilARSVOCDetermination of thicyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTolal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by tiration with addition of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C14, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C3, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C44. C5 to C8 by headspace GC-MS	Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCl followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphate (as SO4) - TotalDetermination of water soluble sulphate by extraction with aqua-reaia followed by ICP-OESE014SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-reaia followed by ICP-OESE024SoilARCSVCCDetermination of solar sulphur by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C23, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C4	Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE028SoilDSulphideSulphideDetermination of sulphide by distillation followed by colorimetryE024SoilARSvocDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of frictic nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically detirate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE articige for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C	Soil		Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE023SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SC)Determination of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, c12-C16, C16-C2					
SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with agua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE006SoilARThiocyanate (as SCN) Toluene Extractable Matter (TEM)Determination of thiocyanate by extraction with tolueneE017SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of nexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arro: C5-C7, C7-C8, C8-C10, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, arro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C24, c12-C16, C16-C21, C21-C24, arro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C12-C16, C16-C21, C21-C35, C35-C44, arro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C35-C44, arro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C215, C35-C44, arro: C5-C7, C7-C8, C8-C10, C10-					
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with torn (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH LQM (ali: C5-C6, C6-C8, C8-C10, C					
SoilARSVCCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, catridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001					
SoilARStoleGC-MSE000SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,E004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hydrocarbons C6-C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of	Soil	Ď	Sulphur - Total		E024
SoilARThickyanate (as Sch) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryED17SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C	Soil	AR	SVOC	GC-MS	E006
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCO)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arritige for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	Thiocyanate (as SCN)		E017
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C23, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001			, , ,		E011
SoilDTotal Organic Carbon (TOC) iron (II) sulphateTotal Organic Carbon (TOC) iron (II) sulphateEDI0SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	5011		I Oluene Extractable Matter (TEM)		
SoilARC10-C12, C12-C16, C16-C21, C21-C34, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10)Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Total Organic Carbon (TOC)		E010
Soil AR C10-C12, C12-C16, C16-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS E004 Soil AR VOCs Determination of volatile organic compounds by headspace GC-MS E001 Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS	
D Dried			VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried AR As Received



Diane Robson Green Earth Management Co Ltd Suite 3 Broomfield Park Coggeshall Road Earls Colne Essex CO6 2JX



Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 23-14339

Site Reference:	Blofield
Project / Job Ref:	1935
Order No:	1935 231120
Sample Receipt Date:	22/11/2023
Sample Scheduled Date:	22/11/2023
Report Issue Number:	1
Reporting Date:	29/11/2023

Authorised by:

S.CZ

Steve Knight Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.





Soil Analysis Certificate							
DETS Report No: 23-14339	Date Sampled	20/11/23					
Green Earth Management Co Ltd	Time Sampled	None Supplied					
Site Reference: Blofield	TP / BH No	Plot 3 TS					
Project / Job Ref: 1935	Additional Refs	E2					
Order No: 1935 231120	Depth (m)	0.00 - 0.25					
Reporting Date: 29/11/2023	DETS Sample No	686698					

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion								

Subcontracted analysis (S)



Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 23-14339
Green Earth Management Co Ltd
Site Reference: Blofield
Project / Job Ref: 1935
Order No: 1935 231120
Reporting Date: 29/11/2023

Soli D Boron - Weite Soluble Determination of Yester soluble hours in solit by 21 hole value rotatal followed by CPC-BS ED12 Soli A.R D Colorade - Water Soluble Determination of Tarkits by haddpace CA-BS ED01 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 Soli A.R Chronnum - Neurobia Solubia ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED03 ED04 Chronnum - Neurobia Solubia ED03 ED04 Chronnum - Neurobia Solubia ED03 ED03 <td< th=""><th>Matrix</th><th>Analysed</th><th>Determinand</th><th>Brief Method Description</th><th>Method</th></td<>	Matrix	Analysed	Determinand	Brief Method Description	Method
Soli AR ITEX Determination of UTEX by backgoue CC-45. E001 Soli D Collings Collings E001 E001 Soli D Collings E001		On			No
Soil D Cations Determination of cations in sub x aga-read digetion followed by CRES E000 Soil AR Ortonium - Housevelor Determination of housevelor direction by extraction in water that by addication, addicen of the second structure in the second by coherence in the second structure in thesecond struc					-
Soil D Chloride - Wales Soluble (23) Determination of chloride by extraction with water 8 analysed by ion chromatography E009 Soil AR Chromium - Hooswale Determination of hearable chromium is obly extraction in water then by accellator, addition of 1046 E016 Soil AR Chromium - Hooswale Chromium is obly extraction with extending by colorinatry E015 Soil AR Chromium - Hooswale Chromitation of the colorinatry E015 Soil AR Chromium - Hooswale Chromitation of the colorinatry by addition of subtraction with extendious wit					
Sol AR. Chromum - Hexavaler Determination of hexavaler chroma in soil by construct in water that by socialization, addition of soil. AR. Construct - Complex Determination of complex canade by doilingtion fidward by colorinety. ED16 Soil AR. Construct - Complex Determination of complex canade by doilingtion fidward by colorinety. ED15 Soil AR. Determination of three solid thread by colorinety. ED15 Soil AR. Description of the solid conductivity Determination of the conduct conductivity by doiling of statusetid by documents by GC-FID ED04 Soil AR. Electrical Conductivity Determination of electrical conductivity by addition of statusetid by documents by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hydrocarbons by GC-FID ED04 Soil AR. Electrical Conductivity Determination of actore/hexare estatable hy					
Soli Art Untromum - measurement Elite Soli Art Conside - rings Determination of ring cyanide by distiliation followed by colorinety E015 Soli Art Conside - rings Determination of ring cyanide by distiliation followed by colorinety E015 Soli Art Desel Range Organics (Clu - C4) Determination of heana/sociation with outper colorinety E011 Soli Art Desel Range Organics (Clu - C4) Determination of heana/sociation with outper colorinety E022 Soli Art Determination of externate distulty by addition of water followed by colorinetic measurement E023 Soli Art Externate Subpar Determination of externate subpar by solvent colorizable hydrocarbone by GC-HD E004 Soli Art Externate Subpar Determination of action-fraceance distable hydrocarbone by GC-HD E004 Soli Art Enternate Subpar Determination of action-fraceance distable hydrocarbone by GC-HD E004 Soli Art Enternate Subpar Determination of action-fraceance distable hydrocarbone by GC-HD E004 Soli Art Enternate Subpar Determination of TC2 by consultation analyser. E007 Soli D Fr			Chionde - Water Soluble (2.1)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of	
Soli AR Opender - Complex Determination of complex oparade by distillation followed by colorimetry EDIS Soli AR Opender - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Opender - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Opender Total Cyande - Total Determination of total cyande by distillation followed by colorimetry EDIS Soli AR Determination of electrical conductivity by addition of water followed by electrometric measurement EDI2 Soli AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by GC-HD EDI0 Soli AR Electrical Conductivity Determination of action-phasene extratable hydrocarbons by GC-HD EDI0 Soli AR EPH Photol (Ch C-CL), Determination of action-phasene extratable hydrocarbons by GC-HD EDI0 Soli AR EPH Photol (Ch C-CL), Determination of Tock to conductive hydrocarbons by GC-HD EDI0 Soli D Fractore Water Soluble Determination of Tock to conductive hydrocarbons by GC-HD EDI0 Soli D Fractore Water Soluble Determination of Tock to conductive analyser.	Soil	AR	Chromium - Hexavalent		E016
Soil AR Cyandia - Free Intermination of free copande by detailisticn followed by colorinetry E015 Soil D Cyclobeane Extractable Netture (CEN) Commitching Mediation followed by colorinetry E015 Soil AR Extractable Netture (CEN) Commitching Mediation (Soil Weight Netture (CEN) E022 Soil AR Extractable Nettocolors by CG-FID E004 Soil AR Extractable Nettocolors by CG-FID E002 Soil AR Electrical Conductivity Determination of electrical conductivity by solute toxication Nettocolors by CG-FID E002 Soil AR Electrical Conductivity Determination of electrical conductivity by solute toxication followed by GC-FID E002 Soil AR EPH TEAK (CEG, CH-CG), CL-CH-CH Determination of electrical conductivity by solute toxication followed by GC-FID E004 Soil D Fibrition CEG, CH-CG, CL-CH-CH Determination of Color toxication analyses: E002 Soil D Fibrition CEG, CH-CH, CH-CH Determination of ToCE toxication analyses: E002 Soil D Fibrition CEG, CH-CH, CH-CH Determination of ToCE tox conabustion	Soil	AR	Cvanide - Complex	Determination of complex cvanide by distillation followed by colorimetry	F015
Soli AR Cyclobases Extractable Matter (CB) doministry detailing in the cyclobases E011 Soli AR Desel Range Organics (C10 - C4) Determination of hexar (cyclobases by cyclobases) E021 Soli AR Electrical Conductivity Determination of hexar (cyclobases) E021 Soli AR Electrical Conductivity Determination of hexar (cyclobases) E023 Soli AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Soli D Elementation of electrical conductivity by addition of water followed by (C-RS E024 Soli AR EPH TEUAS (Cs-C3, CR-C10, C1-C4) Elementation of action phenese extractable hydrocabors by CG-RS E004 Soli D C12-C16, C16-C10, C1-C4) Bettermination of action phenese extractable hydrocabors by CG-RS E027 Soli D Fittodo Cyclobace ECO Determination of action phenese extractable hydrocabors by CG-RS E027 Soli D C12-C16, C16-C1, C1-C40 Determination of TCC by combustion analyser. E027 Soli D Fittodo Cycaboraboraboraborabis (CC-RS)					
Soil D Cyclobearate Estractable Matter (EB) Granulation of the strate of the strat					
Sol AR Electrical Conductivity Determination of electrical conductivity by addition of saturated calcum sulphate followed by E022 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR Electrical Conductivity Determination of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR EPH Production of addition of electrical conductivity by addition of water followed by electrometric measurement E023 Sol AR EPH Production Conductivity Electrical Conductivity	Soil	D			E011
Sol AR Decknol Conductivity Deckno	Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Sail D Elemental Subtra Determination of elemental subtra Determination of actors hearing estanciable inforcamination by GC-FID E020 Sail AR PH1 Fboduct ID Determination of actors hearing estanciable inforcamination by GC-FID E024 Sail AR PH1 Fboduct ID Determination of actors hearing estanciable inforcamination by GC-FID E024 Sail D FP1 Fboduct ID Determination of actors hearing estanciable inforcamination by GC-FID for CB to C40. C6 to C8 by E004 E027 Sail D Fraction Organic Carbon (FOC) Determination of TCb by combustion analyser. E027 Sail D ToC (Foction Organic Carbon (FOC) Determination of actors haves. E027 Sail D FoC (Fraction Organic Carbon (FOC) Determination of Actors analyser. E027 Sail D FOC (Fraction Organic Carbon (FOC) Determination of Actors analyser. E025 Sail D Loss on lightion (# 450C Patterni with on (III) sails or analyser. E025 Sail D Loss on lightion (# 450C Patterni with on (III) sails or analyser. E020 Sail D<	Soil	AR	Electrical Conductivity		E022
Soil AR EPH (C10 – C40) Determination of acctors/hexane extratable hydrocarbons by CC-FID E004 Soil AR EPH TEXAS (C3-C8, C3-C10, C10-C12, Determination of acctors/hexane extratable hydrocarbons by CC-FID E004 Soil AR EPH TEXAS (C3-C8, C3-C10, C10-C12, Determination of acctors/hexane extratable hydrocarbons by CC-FID for C8 to C40. C5 to C8 by C12-C16, C16-C12, C12-C40) headspace CG-MS E004 Soil D Floradic-Water Soluble Determination of TOC by combustion analyser. E027 Soil D Floradic-R0CB Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E022 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E022 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E023 Soil D Hoad carbon by the form Organic Carbon Determination of tock by combustion analyser. E023 Soil D Loss on Ignition @ 450C Determination of rotas by carbon by	Soil		,		
Soll AR EPH Product ID Determination of accome/hexane extractable hydrocarbons by GC-FID E004 Soll AR EPH TEXAS (Co-G3, CS-ID, CD-12), Determination of accome/hexane extractable hydrocarbons by GC-FID for CB to C40. C6 to CB by C12-C16, C13-C12, C21-C40, ID C12), Determination of TOC by combustion analyser. E009 Soll D Fraction Organic Martic (SOM) Determination of TOC by combustion analyser. E027 Soll D Organic Martic (SOM) Determination of TOC by combustion analyser. E027 Soll D TOC (Total Organic Carbon Determination of TOC by combustion analyser. E029 Soll D FOC (Fraction Organic Carbon Determination of ToC by combustion analyser. E029 Soll D Horson organic Martic (SOM) Determination of reganic carbon by oxidising with potassium dichromate followed by E0205 E020 Soll D Horson organic Martic (SOM) Determination of nearls by aque-regia diaestion followed by UC-OE5 E022 Soll D Measa Determination of marks by aque-regia diaestion followed by UC-OE5 E022 Soll D Minarel Oli (Clo - Can) Determination of narks by aque-regia diaestion followed by UC-OE5 E002 Soll AR Minarel Sollide Carbon b	Soil				
Sail AR EPH TEAS (C6-G, G3-C10, C10-C12, Determination of acctore/hexane extractable hydrocators by GC-FLD for C8 to C40, C6 to C8 by C12-C15, G16-C12, C12-C40, bedspace GC-MS E004 Soil D Fluctide - Water Soluble Determination of TCb by conduction analyser. E027 Soil D Fluctide - Water Soluble Determination of TCb by conduction analyser. E027 Soil D TOC (Total Organic Carbon Determination of TCb by conduction analyser. E027 Soil D TOC (Total Organic Carbon Determination of Organic Carbon by oddsing with potassium dichromate followed by tratan with ino n111 subplate E028 Soil D Loss on Ignition @ 4500. Determination of organic Carbon by oddsing with potassium dichromate followed by tratan with ino n111 subplate E019 Soil D Magnesium - Water Soluble Determination of neals by acue-regia digestion followed by IDP-OES E025 Soil AR Mineral OII (C10- c40) Determination of neals by acue-regia digestion followed by IDP-OES E026 Soil AR Moisture Contend E004 E004 Soil AR Moisture Contend E004 E004 Soil AR Moisture Contend E004 E					
Soli Ark C12-C16, C12-C12, C12-C10 headsace GC-MS Eurois Soli D Fluoride-Vister Soluble Determination of TOC by combustion analyser. E009 Soli D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. E027 Soli D Organic Matter (SOM) Determination of TOC by combustion analyser. E027 Soli D TOC (Total Organic Carbon (TOC) Determination of TOC by combustion analyser. E027 Soli D FOC (Fraction Organic Carbon D) Determination of fraction of a grazin carbon by coxidant with parametrically with potassium dichnomate followed by E010 Soli D Hognesium - Water Soluble Determination of metal soluble nagnesium by cottaction with water followed by ICP-OES E022 Soli D Magnesium - Water Soluble Determination of metal soluble hydrocarbon by GC-IDI factionaling with SPE E004 Soli AR Mineral OII (C10 - C40) Petermination of metal by acutacion with water fallowed by ICP-OES E002 Soli AR Mineral OII (C10 - C40) Petroleum Content (determined gravimetrical)Y E003 Soli AR Phone Content Mostuse content; determined gravimetrical Y E003 <td< td=""><td>Soil</td><td>AR</td><td></td><td></td><td>E004</td></td<>	Soil	AR			E004
Sol D C12C16, C10-C1, C12-C40, EX1-C40, BiadSpäce SC-MS Endode - Vacan	Soil	AR			F004
Soil D Fraction Organic Carbon (FOC) Determination of TOC by combustion analyser. EE27 Soil D TOC (Total Organic Carbon) Determination of TOC by combustion analyser. E027 Soil D FOC (Fraction Organic Carbon) Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidiang with potassium dichromate followed by E010 E010 Soil D Loss on Ignition @ 4500 Determination of fraction of owater soluble magnesium by extraction with water followed by ICP-OES E022 Soil D Magnesium - Water Soluble Determination of hexane/accence extractable hydrocarbons by GC-FID fractionating with SPE E004 Soil AR Mineral OII (C10 - C40) Determination of ratic by extraction with water followed by ICP-OES E002 Soil D Nitrate - Water Soluble C21) Determination of ratic by extraction with water followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Cartridge E004 Soil D Organic Mater Missure content, determined gravimetrically E003 Soil <td></td> <td></td> <td>C12-C16, C16-C21, C21-C40)</td> <td>headspace GC-MS</td> <td></td>			C12-C16, C16-C21, C21-C40)	headspace GC-MS	
Soil D Organic Matter (SQM) Determination of TOC by combustion analyser. E027 Soil AR Exchangeable Ammonium Determination of TOC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of ToC by combustion analyser. E023 Soil D FOC (Fraction Organic Carbon) Determination of tock on lightion in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral OII (CI) - C40) Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral OII (CI) - C40) Determination of magneic matter by coldising with potassium dichromater followed by ICP-OES E004 Soil D Nitrate - Water Soluble (CI) Determination of rightion in a soll by extraction with water followed by ICP-OES E004 Soil AR PAH - Speciated (EPA IG) Determination of TAB compounds by extraction with water followed by ICP-OES E004 Soil AR PAH - Speciated (EPA IG) Determination of T					
Soil D TOC (Total Organic Carbon) Determination of monoium by discrete analyser. E027 Soil AR Exchangeable Ammonium Determination of monoium by discrete analyser. E023 Soil D FPOC (Fraction Organic Carbon) Determination of marino (arbon of granic carbon by oxidising with potassium dichromate followed by EP-OES E019 Soil D Loss on Ignition (arbon) 4500 Determination of metals by acuaregia digestion followed by ICP-OES E025 Soil D Magnesium - Water Soluble Determination of metals by acuaregia digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of metals by acuaregia digestion followed by ICP-OES E003 Soil AR Mineral OII (C10 - C40) Determination of mates by acutergia digestion followed by ICP-OES E003 Soil AR PAH - Speciated (EPA L) Determination of mates by acutergia digestion followed by ICP-OES E003 Soil AR PAH - Speciated (EPA L) Determination of mates by acutarion with water K analysed by ion chromatography E003 Soil AR PAH - Speciated (EPA L) Determination of mathernal stanalystacib preva					
Soil AR Exchangeable Ammonium Determination of animonium by discrete analyser. E029 Soil D FOC (Fraction Organic Carbon) Permination of action of on point corbon by oxiding with potassium difformate followed by traction with incn (II) subplate. E010 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral oli (CI) - C40) Eemination of water soluble magnesium by extraction with water followed by ICP-OES E002 Soil AR Minaral oli (CI) - C40) Eemination of metals by aquar-regia digestion followed by ICP-OES E003 Soil AR Minaral oli (CI) - C40) Eemination of metals by aquar-regia digestion followed by ICP-OES E004 Soil D Nitrate - Water Soluble (CI) Determination of fragenic extractable hydrocarbons by CC-HS E003 Soil D Nitrate - Water Soluble (CI) Determination of RD by extraction with acteone and hexane followed by GC-MS E005 Soil AR PAH - Speciated (EPA 16) EeDetermination of PAH compounds by extraction in actone and hexane followed by GC-MS E001 Soil D Petroleum Ether Extra					
Soil D FOC (Fraction Organic Carbon) Determination of fraction of organic carbon by oxidising with potassium dichromate followed by E010 Soil D Loss on Ignition @ 4500C Determination of hoss on ignition in soil by gravimetrically with the sample being ignited in a muffle E019 Soil D Magnesium - Water Soluble Determination of nearbis by agar-regis digestion followed by ICP-OES E002 Soil AR Mineral OII (C10 - C40) Determination of nearbis by agar-regis digestion followed by ICP-OES E003 Soil AR Molsture Content Metals Determination of threads by agar-regis digestion followed by ICP-OES E004 Soil AR Molsture Content Metals Determination of nutrate by estraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of PAH compaunds by extraction in acetone and hexane followed by GC-MS with the E005 Soil AR PAH - Speciated (FPA 16) Determination of PAH compaunds by extraction with water & analysed by ion chromatography E001 Soil AR Penesis - Total comean followed by GC-MS E008 Soil AR Penesis - Total comean followed by icO-MS <td></td> <td></td> <td></td> <td></td> <td></td>					
Soil D FOC (Fraction Organic Carloo) tratation with iron (11) subpate ⁻ E010 Soil D Lass on Ignition (0) 4500C Elemination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle fumace. E012 Soil D Magnesium - Water Soluble Determination of water soluble magnesium by extraction with water followed by ICP-OES E023 Soil AR Mineral OII (C10 - C40) Determination of metals by aqua-regize digestron followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of metals by aqua-regize digestron followed by ICP-OES E003 Soil D Nitrate - Water Soluble (21) Determination of mitate by extraction with votacrosms by GC-FID fractionating with SPE cartifica E003 Soil D Organic Mater Determination of organic matter by oxidising with potassium dicronate followed by GC-MS E009 Soil AR PAH - Speciated (PA 16) Determination of PAE organic Mater E0011 Soil AR PAH - Speciated (PA 16) Determination of PAE organic Mater E0011 Soil AR Phenols - Total (monolydicic) Determination of PAE organimaters E0011	5011	AK	Exchangeable Ammonium		E029
Soli D Loss on ignition (e) solid furnace EDIS EDIS Solid D Magnesium: Water Soluble Determination of metals by aqua-regid aglession followed by ICP-OES E025 Solid D Magnesium: Water Soluble Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE E003 Solid AR Mineral OII (C10 - C40) Determination of netrals by aqua-regid aglession followed by ICP-OES E003 Solid D Nitrate - Water Soluble (2:1) Determination of netrals by extraction with water & analysed by ion chromatography E009 Solid D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by GC-MS with the exit (11) solidhare and internal standards. E003 Solid AR PAH - Speciated (EPA 16) Eoremination of PAH compounds by extraction with betroleum ether E0011 Solid AR PCB - 7 Congeners Determination of water followed by colorimetry E0031 Solid AR PHeroleum Ether Extract (PEE) Garwinetrical Veterminet frow only extraction with bacter lolowed by CC-MS E0031 Solid AR Phenols - Total (monohydric) Determination of valatishiphate by ext	Soil	D	FOC (Fraction Organic Carbon)	titration with iron (II) sulphate	E010
Soil D Metals Determination of metals by aqua-regid digestion followed by CP-OES E002 Soil AR Mineral Oil (C10 - C40) Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartifoge E003 Soil D Nitrate - Water Soluble (2:1) Determination of intrate by extraction with water & analysed by ion chromatography E003 Soil D Organic Matter Or Gragine matter by oxidising with potassium dichromate followed by dC-MS with the use of surrogate and internal standards E004 Soil AR PAH - Speciated (EPA 16) Determination of PAE toxpo textmon with accence and hexane followed by GC-MS E003 Soil AR PAH - Speciated (EPA 16) Determination of PAE by extraction with accence and hexane followed by GC-MS E003 Soil AR PERIOR - Toxpogenes Determination of pathetic by extraction with accence and hexane followed by GC-MS E003 Soil D Petroleum Ether Extract (PEE) Determination of phenols by distillation followed by clorimetry E021 Soil AR Phenols - Total (monthydric) Determination of total suphate by extraction with accence and hexane followed by ICP-OES E014 Soil D Phenophate - Water Soluble (2:1)				furnace	
Soil AR Mineral Oil (C10 - C40) articidge Determination of hexane/actione extractable hydrocarbons by GC-FID fractionating with SPE articidge E003 Soil AR Moisture Content Moisture content; determination of nutrate by extraction with water & analysed by ion chromatography E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with performance of organic matter by oxidising with potassium dichromate followed by GC-MS with the use of surrogate and internal standards E003 Soil AR PAH - Speciated (EPA 16) Determination of PAB to extraction with acetone and hexane followed by GC-MS E006 Soil AR PCB - 7 Congenes Determination of PAB to addition of water followed by electrometric measurement E007 Soil AR Phenols - Total (monohydric) Determination of subnite by extraction with acetone with exane shakes by ion chromatography E003 Soil D Sulphate (as SO4) - Total Determination of subnite by extraction with acetone with exane shakes by ion chromatography E003 Soil D Sulphate (as SO4) - Total Determination of subnite by extraction with water 8 analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subnib to extr					
Soil AR mineral Oil (C10 - C40) cartridge ED04 Soil AR Molsture Content Molsture content; determined gravimetrically E003 Soil D Nitrate - Water Soluble (2:1) Determination of organic matter by oxidising with potassium dichromate followed by titration with e010 E009 Soil AR PAH - Speciated (EPA 16) Determination of PAR tompounds by extraction in acetone and hexane followed by GC-MS E008 Soil AR PAH - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR PAB - Speciated (EPA 16) Determination of PAB by extraction with acetone and hexane followed by GC-MS E008 Soil AR Pheroles: The Extract (PEB Gravimetrically determined trough extraction with perfoleum ether E011 Soil AR Pheroles: The Extract (PEB Gravimetrically determined trough extraction with acetone and hexane followed by GC-MS E008 Soil AR Pheroles: Total (monohydric) Determination of phenols by extraction with acetone and hexane followed by ICP-DES E001 Soil D Pheroles: The Soil Determination of total subphate by extraction with acet & analysed by ion chromatography E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of subphate by extraction with water & analysed by ion chromatography E003	SOIL	D	Metals		E002
Soil D Nitrate : Water Soluble [2:1] Determination of intrate by extraction with water & analysed by ion chromatography E009 Soil D Organic Matter Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (11) sulphate E010 Soil AR PAH - Speciated (EPA 16) Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E005 Soil AR PCB - 7 Congeners Determination of PAH compounds by extraction with acetone and hexane followed by GC-MS with the use of surrogate and internal standards E003 Soil AR Phenols - Total (monohydric) Determination of phenols by distillation followed by clorimetry E003 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil D Sulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatography E009 Soil AR <			. ,	cartridge	
SoilDOrganic Matter Ion (11) subhate ion (11) subhate ion (11) subhateEetinSoilARPAH - Speciated (EPA 16) use of surroader and internal standardsDetermination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surroader and internal standardsE005SoilARPCB - 7 Congeners Determination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilARPerfolum Ether Extract (PEE) Gravimetrically determined through extraction with acetone and hexane followed by electrometric measurementE007SoilARPhenols - Total (monohydric) Determination of phenols by desitiation folwed by colorimetryE003SoilDPhosphate - Vater Soluble (21) Determination of phenols by desitiation followed by colorimetryE003SoilDSulphate (as SO4) - Vater Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (21) Determination of sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed by ion chromatographyE004SoilARSulphiteDetermination of semi-voluble sulphate by extraction with water & analysed					
SoilARPAH - Speciated (EPA 16)Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and intermal standardsE005SoilARPCB - 7 CongenersDetermination of PCB by extraction with acetone and hexane followed by GC-MSE008SoilDPetroleum Ether Extract (PEE)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of PLB by extraction with public electrometric measurementE007SoilDPhosphate - Vater Soluble (2:1)Determination of phosphate by extraction with Neter & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Neter & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with Neter & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with acua-regia followed by ICP-OESE014SoilARSulphate (as SCN)Determination of tal sulphur by extraction with acua-regia followed by ICP-OESE014SoilARThiocyanate (as SCN)Determination of semi-volatile organic compounds by extraction in acutos and hexane followed byE007SoilARThiocyanate (as SCN)Determination of feric nitrate followed by colorimetryE011 <td></td> <td></td> <td></td> <td>Determination of organic matter by oxidising with potassium dichromate followed by titration with</td> <td></td>				Determination of organic matter by oxidising with potassium dichromate followed by titration with	
SoilDPetroleum Ether Extract (PED)Gravimetrically determined through extraction with petroleum etherE011SoilARPhenols - Total (monohydric)Determination of phenols by distillation followed by electrometryE021SoilDPhosphate - Water Soluble (2:1)Determination of phenols by distillation followed by colorimetryE003SoilDSulphate (as SO4) - TotalDetermination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE008SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE018SoilARChrocycante (as SCH)Determination of sulphate by extraction with aqua-regia followed by ICP-OESE014SoilDToluene Extractable Matter (TEM)Gravimetrical determination of frain intract follo	Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the	E005
SoilARpHDetermination of pH by addition of water followed by electrometric measurementE007SoilARPhenols - Total (monotydic)Determination of phenols by distillation followed by colorimetryE011SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with now ther & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Water Soluble (2:1)Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE004SoilARThiocyanate (as SCN)Determination of fullo yaluphur by extraction with tolueneE017SoilDTotal Organic Carbon (TOC)Determination of nexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C21-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-	Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
SoilARPhenols - Total (monohydric) Determination of phenols by distillation followed by colorimetryE021SoilDPhosphate - Water Soluble (2:1) Determination of total suphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of sulphate by extraction with water & analysed by ion chromatographyE018SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of sulphide by distillation followed by colorimetryE018SoilARSulphate (as SO4) - Water Soluble (2:1) Determination of total sulphare by extraction with aqua-regia followed by ICP-OESE024SoilDSulphate (as SO4) - Water Soluble (2:1) Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE014SoilARThiocyanate (as SC4) Total Organic Carbon (TOCDetermination of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35, C35-C44, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE <b< td=""><td>Soil</td><td>D</td><td>Petroleum Ether Extract (PEE)</td><td>Gravimetrically determined through extraction with petroleum ether</td><td>E011</td></b<>	Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
SoilDPhosphate - Water Soluble (2:1)Determination of phosphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Total Determination of sulphate by extraction with 10% HCI followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphate (as SO4) - Votate Soluble (2:1)Determination of sulphate by extraction with aquar-eqia followed by ICP-OESE024SoilDSulphate (as SO4) - Total Determination of tal sulphate by extraction with aquar-eqia followed by ICP-OESE024SoilARSVOCDetermination of thicyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDTolal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by tiration with addition of ferric nitrate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C14, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C3, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, cartridge for C8 to C44. C5 to C8 by headspace GC-MS	Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
SoilDSulphate (as SO4) - TotalDetermination of total sulphate by extraction with 10% HCl followed by ICP-OESE013SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water & analysed by ion chromatographyE003SoilARSulphate (as SO4) - TotalDetermination of water soluble sulphate by extraction with aqua-reaia followed by ICP-OESE014SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-reaia followed by ICP-OESE024SoilARCSVCCDetermination of solar sulphur by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C35, C35-C4	Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water & analysed by ion chromatographyE009SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of sulphate by extraction with water followed by ICP-OESE014SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE028SoilDSulphideSulphideDetermination of sulphide by distillation followed by colorimetryE024SoilARSvocDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of frictic intrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically detirate followed by colorimetryE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE articige for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, arc: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C	Soil		Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	
SoilDSulphate (as SO4) - Water Soluble (2:1)Determination of water soluble sulphate by extraction with water followed by ICP-OESE014SoilARSulphur - TotalDetermination of sulphide by distillation followed by colorimetryE023SoilARSulphur - TotalDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SC)Determination of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryE017SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with ion (II) sulphateE010SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, c12-C16, C16-C2					
SoilARSulphideDetermination of sulphide by distillation followed by colorimetryE018SoilDSulphur - TotalDetermination of total sulphur by extraction with agua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by addition of ferric nitrate followed by colorimetryE006SoilARThiocyanate (as SCN) Toluene Extractable Matter (TEM)Determination of thiocyanate by extraction with tolueneE017SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C24, c12-C16, C16-C21, C21-C24, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C21, C12-C16, C16-C21, C21-C23, C12-C16, C16-C2					
SoilDSulphur - TotalDetermination of total sulphur by extraction with aqua-regia followed by ICP-OESE024SoilARSVOCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determination of organic matter by oxidising with potassium dichromate followed by titration with torn (II) sulphateE011SoilDTotal Organic Carbon (TOC)Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH LQM (ali: C5-C6, C6-C8, C8-C10, C					
SoilARSVCCDetermination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MSE006SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, are: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE artridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C12-C16, C16-C21, C21-C35, C35-C44, cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MSE001					
SoilARStoleGC-MSE000SoilARThiocyanate (as SCN)Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetryE017SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C34, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,E004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arc C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hydrocarbons C6-C8 by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of	Soil	Ď	Sulphur - Total		E024
SoilARThickyanate (as Sch) addition of ferric nitrate followed by colorimetry addition of ferric nitrate followed by colorimetryED17SoilDToluene Extractable Matter (TEM) Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TOC) C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of nexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C	Soil	AR	SVOC	GC-MS	E006
SoilDToluene Extractable Matter (TEM)Gravimetrically determined through extraction with tolueneE011SoilDTotal Organic Carbon (TCO)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE arritige for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) Determination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	AR	Thiocyanate (as SCN)		E017
SoilDTotal Organic Carbon (TOC)Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphateE010SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C12-C16, C16-C21, C21-C35,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C23, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCsDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001			, , ,		E011
SoilDTotal Organic Carbon (TOC) iron (II) sulphateTotal Organic Carbon (TOC) iron (II) sulphateEDI0SoilARTPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44,Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVPH (C6-C8 & C8-C10) VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	5011		I Oluene Extractable Matter (TEM)		
SoilARC10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MSE004SoilARTPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MSE004SoilARVOCSDetermination of volatile organic compounds by headspace GC-MSE001SoilARVPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FIDE001	Soil	D	Total Organic Carbon (TOC)		E010
Soil AR C10-C12, C12-C16, C16-C35, C35-C44, Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS E004 Soil AR VOCs Determination of volatile organic compounds by headspace GC-MS E001 Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001	Soil	AR	C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12,	cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil AR VPH (C6-C8 & C8-C10) Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID E001			C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	cartridge for C8 to C44. C5 to C8 by headspace GC-MS	
D Dried			VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried AR As Received



Appendix 3

Soil Assessment Criteria





Generic Soil Assessment Criteria for the A	Assessment of Risk to Hum	an Health							
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source					
Asbestos	ND	ND	ND						
Metals and Metalloids									
Arsenic	37	40	79	LQM / CIEH (2015) S4UL ²					
Barium	-	1300	-	CL:AIRE (2010) ³					
Beryllium	1.7	1.7	2.2	LQM / CIEH (2015) S4UL ²					
Boron	290	11000	21000	LQM / CIEH (2015) S4UL ²					
Cadmium	11	85	120	LQM / CIEH (2015) S4UL ²					
Chromium (III)	910	910	1500	LQM / CIEH (2015) S4UL ²					
Chromium (VI)	6	6	7.7	LQM / CIEH (2015) S4UL ²					
Copper	2400	7100	12000	LQM / CIEH (2015) S4UL ²					
Lead	200	310	630	Defra (2014) C4SL ⁴					
Mercury - Elemental	1.2	1.2	16	LQM / CIEH (2015) S4UL ²					
Mercury - Inorganic	40	56	120	LQM / CIEH (2015) S4UL ²					
Mercury - Methyl	11	15	40	LQM / CIEH (2015) S4UL ²					
Nickel	130	180	230	LQM / CIEH (2015) S4UL ⁵					
Selenium	250	430	1100	LQM / CIEH (2015) S4UL ²					
Vanadium	410	1200	2000	LQM / CIEH (2015) S4UL ²					
Zinc	3700	40000	81000	LQM / CIEH (2015) S4UL ²					
Polyaromatic Hydrocarbons (USEPA 16) -	At 1% Soil Organic Matte	r							
Naphthalene	2.3	2.3	4900	LQM / CIEH (2015) S4UL ²					
Acenaphthylene	170	2900 (86.1) ^{sol}	15000	LQM / CIEH (2015) S4UL ²					
Acenaphthene	210	3000 (57.0) ^{sol}	15000	LQM / CIEH (2015) S4UL ²					
Fluorene	170	2800 (30.9) ^{sol}	9900	LQM / CIEH (2015) S4UL ²					
Phenanthrene	95	1300 (36.0) ^{sol}	3100	LQM / CIEH (2015) S4UL ²					
Anthracene	2400		74000	LQM / CIEH (2015) S4UL ²					
Fluoranthene	280	1500	3100	LQM / CIEH (2015) S4UL ²					
Pyrene	620	3700	7400	LQM / CIEH (2015) S4UL ²					
Benzo(a)anthracene	7.2	11	29	LQM / CIEH (2015) S4UL ²					

Green Earth Management Company Limited trading as GEMCO Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22



Generic Soil Assessment Criteria for the Assessment of Risk to Human Health							
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source			
Chrysene	15	30	57	LQM / CIEH (2015) S4UL ²			
Benzo(b)fluoranthene	2.6	3.9	7.1	LQM / CIEH (2015) S4UL ²			
Benzo(k)fluoranthene	77	110	190	LQM / CIEH (2015) S4UL ²			
Benzo(a)pyrene	2.2	3.2	5.7	LQM / CIEH (2015) S4UL ²			
Indeno(1,2,3-cd)pyrene	27	45	82	LQM / CIEH (2015) S4UL ²			
Di-benzo(a,h)anthracene	0.24	0.31	0.57	LQM / CIEH (2015) S4UL ²			
Benzo(ghi)perylene	320	360	640	LQM / CIEH (2015) S4UL ²			
Coal Tar (BaP surrogate marker)	0.79	1.2	2.2	LQM / CIEH (2015) S4UL ²			
Total Petroleum Hydrocarbons (LQM Banding) – At 1% Soil Organic Matter							
Aliphatic EC5 - EC6	42	42	570000 (304) ^{sol}	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC6 - EC8	100	100	600000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC8 - EC10	27	27	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC10 - EC12	130 (48) ^{vap}	130 (48) ^{vap}	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC12 - EC16	1100 (24) ^{sol}	1100 (24) ^{sol}	13000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC16 - EC35	65000 (8.48) ^{sol}	65000 (8.48) ^{sol}	250000	LQM / CIEH (2015) S4UL ²			
Aliphatic >EC35 - EC44	65000 (8.48) ^{sol}	65000 (8.48) ^{sol}	250000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC5 - EC7	70	370	56000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC7 - EC8	130	860	56000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC8 - EC10	34	47	5000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC10 - EC12	74	250	5000	LQM / CIEH (2015) S4UL ²			
Aromatic >EC12 - EC16	140	1800	5100	LQM / CIEH (2015) S4UL ²			
Aromatic >EC16 - EC21	260	1900	3800	LQM / CIEH (2015) S4UL ²			
Aromatic >EC21 - EC35	1100	1900	3800	LQM / CIEH (2015) S4UL ²			
Aromatic >EC35 - EC44	1100	1900	3800	LQM / CIEH (2015) S4UL ²			
Ali + Aro >EC44 - EC70	1600	1900	3800	LQM / CIEH (2015) S4UL ²			
BTEX + MTBE – At 1% Soil Organic Matter							
Benzene	0.087	0.38	72	LQM / CIEH (2015) S4UL ²			
Toluene	130	880 (869) ^{vap}	56000	LQM / CIEH (2015) S4UL ²			

Green Earth Management Company Limited trading as GEMCO

Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22



Generic Soil Assessment Criteria for the Assessment of Risk to Human Health							
Determinand	RwHP ¹ (mg/kg)	RwoHP ¹ (mg/kg)	POS _{resi} ¹ (mg/kg)	Source			
Ethylbenzene	47	83	24000	LQM / CIEH (2015) S4UL ²			
o-Xylene	60	88	41000	LQM / CIEH (2015) S4UL ²			
m-xylene	59	82	41000	LQM / CIEH (2015) S4UL ²			
p-xylene	56	79	41000	LQM / CIEH (2015) S4UL ²			
MTBE (Methyl <i>tert</i> -butyl ether)	49	73		CL:AIRE (2010) ³			
Phenol – At 1% Soil Organic Matter							
Phenol	120	440 ^{dir} (460)	440 ^{dir} (10000)	LQM / CIEH (2015) S4UL ²			
PHEIIO	120	440* (400)	440* (10000)				

Notes:

sol GAC exceed the solubility saturation limit which is presented in brackets; consideration of the CSM may be required

vap GAC exceed the vapour saturation limit which is presented in brackets; consideration of the CSM may be required

sat GAC exceed a soil saturation limit (not specified) which is presented in brackets; consideration of the CSM may be required

dir GAC is based on tolerable direct contact concentration; long term health protection value presented in brackets

(1) RwHP = Residential land use including significant production and consumption of home-grown produce; RwoHP = Residential land use without significant production and consumption of home-grown produce; POS_{resi} = Public open space in close proximity to residential properties

(2) Nathanial, C.P. *et al.* (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Note that the LQM / CIEM S4ULs update and replace the former LQM / CIEH GAC on the basis of new toxicological and refined modelling data. The S4ULs also cover the Environment Agency SGV substances with the inclusion of updated toxicological and modelling data.

(3) CL:AIRE, 'Soil Generic Assessment Criteria for Human Health Risk Assessment', 2010.

(4) Defra (2014), 'SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination - Policy Document Companion Document', Defra, December 2014; CL:AIRE Report 'SP1010 - Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affecte

(5) Nathanial, C.P. et al. (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Nickel update (August 2015).

Phytotoxic Contaminants (by Soil pH) ¹							
Contaminant (mg/kg dry soil)	Soil pH						
	5.5 - 6.0	6.0 - 7.0	> 7.0				
Zinc (nitric acid extractable)	< 200	< 200	< 300				
Copper (nitric acid extractable)	< 100	< 135	< 200				
Nickel (nitric acid extractable)	< 60	< 75	< 110				
British Standard BS 3882:2015, Specification for Topsoil and rec	uirements for use, 2015						

Green Earth Management Company Limited trading as GEMCO

Trading Address: Suite 3, Broomfield Park, Coggeshall Road, Earls Colne, Essex CO6 2JX Tel: 01245 206129

Registered Office: 26 Heycroft Way, Chelmsford, CM2 8JG - Registered in England & Wales No. 6125891 VAT No. 905 6169 22