



Our Ref: 24-40542
Your Ref: 406/02/084/SC

Analysis Report

Client: Parchow Groundworks
New Down Lane
Waterlooville
Hampshire
PO7 5SE
United Kingdom

Sample Details: 12 soil samples for Soil Analysis

Date report issued: 16 February 2024

Issue number: 1

Number of pages (including this header): 8

Accreditation

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

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

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

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

All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid. The results shown in this test report specifically refer to the sample(s) as received unless otherwise stated.

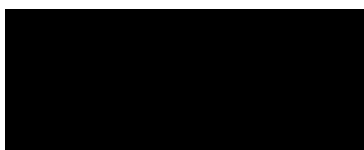
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All comments are beyond the scope of our accreditation.

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

Uncertainty of measurement is not accounted for in reported results

Signed on behalf of Envirochem by an authorised signatory



Dan Dockree

Authorised Signatory



ASBESTOS
SERVICES



MICROBIOLOGICAL
TESTING



CHEMICAL
TESTING



OCCUPATIONAL
HYGIENE



Client: Parchow Groundworks
Site: 406 North Street, Emsworth, PO10 7DA
Sampled By: Client
Envirochem Job No. 24-40542

Submitted By: Client
Date Received: 5 February 2024
Date Completed: 16 February 2024
Date Issued: 16 February 2024

Lab Sample No. Deviating codes Soil Type Sample Date Sample Time Sample Location / Details				130262 AD Sandy Loam // NotSupplied Plot 16A Topsoil	130263 AD Sandy Loam // NotSupplied Plot 16B Topsoil	130264 AD Sandy Loam // NotSupplied Plot 16C Topsoil	130265 AD Sandy Loam // NotSupplied Plot 31C Topsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
total PCBs	µg/kg	6.06	10.0	< 10.0	< 10.0	< 10.0	< 10.0	---	---	---
phenol index soil	mg/kg	6.19	0.25	4.6	5.4	5.1	5.9	1100+	280+	3200+
Particle size > 2mm	%	5.01	-	6.0	7.7	4.8	6.2	---	---	---
water content 105C	%	6.01	1.0	29.6	30.4	28.5	28.2	---	---	---
% water , air dried(<30°)	%	5.01	1.00	21.2	24.8	34.9	12.1	---	---	---
pH	pH Units	5.06, 6.03	1.00	7.23 M*	7.52 M*	7.27 M*	7.49 M*	---	---	---
Free cyanide	mg/kg	6.19	0.025	< 0.025	< 0.025	< 0.025	< 0.025	---	---	---
arsenic	mg/kg (dry)	5.18, 6.08	4.0	< 4.0 M*	4.6 M*	4.6 M*	4.6 M*	37+	43+	640+
boron total	mg/kg (dry)	5.18, 6.08	7	39	37	35	36	290+	45+	24000
cadmium	mg/kg (dry)	5.18, 6.08	0.5	< 0.5 M*	0.6 M*	< 0.5 M*	0.5 M*	11+	1.9+	190+
Chromium III	mg/kg	6.19	5.00	10.7	14.0	12.1	16.6	910+	18000+	8600+
chromium	mg/kg (dry)	5.18, 6.08	2	11 M*	14 M*	12 M*	17 M*	---	---	---
Chromium VI	mg/kg	6.19	0.05	< 0.05	< 0.05	< 0.05	< 0.05	6+	1.8+	33+
copper	mg/kg (dry)	5.18, 6.08	2	22 M*	28 M*	26 M*	31 M*	2400+	520+	68000+
mercury	mg/kg (dry)	5.18, 6.08	0.2	< 0.2 M*	< 0.2 M*	< 0.2 M*	< 0.2 M*	1.2+	21+	25.8+
nickel	mg/kg (dry)	5.18, 6.08	3	10 M*	13 M*	12 M*	13 M*	180+	230+	980+
lead	mg/kg (dry)	5.18, 6.08	40	< 40 M*	< 40 M*	< 40 M*	< 40 M*	210++	84++	1100++
selenium	mg/kg (dry)	5.18, 6.08	1	< 1 M*	< 1 M*	< 1 M*	< 1 M*	250+	88+	12000+
zinc	mg/kg (dry)	5.18, 6.08	15	68 M*	87 M*	82 M*	1070 M*	3700+	620+	73000
total TPH (C10 - C40)	mg/kg	6.04	50.0	175	157	166	176	---	---	---
TPH Aliphatic (C8-C10)	mg/kg	6.04	5.00	< 5.00	< 5.00	< 5.00	< 5.00	27+	320+	2000+
TPH Aliphatic (C10-C12)	mg/kg	6.04	5.0	< 5.0	< 5.0	< 5.0	< 5.0	130+	2200+	9700+
TPH Aliphatic (C12-C16)	mg/kg	6.04	5.0	7.5	7.8	8.1	7.6	1100+	11000+	59000+
TPH Aliphatic (C16-C21)	mg/kg	6.04	5.0	10.4	9.3	11.3	7.9	65000+	26000	16000
TPH Aliphatic (C21-C40)	mg/kg	6.04	5.0	38.0	19.7	32.0	25.2	65000+	26000	16000
TPH Aromatic (C8-C10)	mg/kg	6.04	5.00	< 5.00	< 5.00	< 5.00	< 5.00	34+	8.6+	3500+
TPH Aromatic (C10-C12)	mg/kg	6.04	5.0	< 5.0	< 5.0	< 5.0	< 5.0	74+	13+	16000+
TPH Aromatic (C12-C16)	mg/kg	6.04	5.0	< 5.0	< 5.0	< 5.0	< 5.0	140+	23+	36000+
TPH Aromatic (C16-C21)	mg/kg	6.04	5.0	6.7	5.3	6.6	7.5	260+	46+	28000+
TPH Aromatic (C21-C40)	mg/kg	6.04	5.0	105	108	101	121	1100+	370+	28000+

Limits labelled '+' are S4ULs (Suitable for Use Levels) taken from The LQM/CIEH S4ULs for Human Health Risk Assessment soil guideline values published by Land Quality Ltd. 2015
Limits labelled '++' are C4SLs Category 4 Screening levels from Appendix H provisional C4SLs for lead and based upon Soil Guideline Values

Client: Parchow Groundworks
Site: 406 North Street, Emsworth, PO10 7DA
Sampled By: Client
Envirochem Job No. 24-40542

Submitted By: Client
Date Received: 5 February 2024
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Lab Sample No. Deviating codes Soil Type Sample Date Sample Time Sample Location / Details				130262 AD Sandy Loam // NotSupplied Plot 16A Topsoil	130263 AD Sandy Loam // NotSupplied Plot 16B Topsoil	130264 AD Sandy Loam // NotSupplied Plot 16C Topsoil	130265 AD Sandy Loam // NotSupplied Plot 31C Topsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
total PAHs	mg/kg	6.05	2.0	< 2.0	< 2.0	< 2.0	3.2	---	---	---
PAH Napthalene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	2.3+	4.1+	190+
PAH Acenaphthylene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	170+	28+	83000+
PAH Acenaphthene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	210+	34+	84000+
PAH Fluorene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	170+	27+	63000+
PAH Anthracene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	0.12	2400+	380+	52000
PAH Phenanthrene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	95+	15+	22000+
PAH Fluoranthene	mg/kg	6.05	0.10	0.24	0.31	0.26	0.56	280+	52+	23000+
PAH Pyrene	mg/kg	6.05	0.10	0.17	0.24	0.19	0.44	620+	110+	54000+
PAH Benz(a)anthracene	mg/kg	6.05	0.10	< 0.10	0.15	0.12	0.28	7.2+	2.9+	170+
PAH Chrysene	mg/kg	6.05	0.10	0.10	0.14	0.12	0.21	15+	4.1+	350+
PAH Benzo(b)fluoranthene	mg/kg	6.05	0.10	0.21	0.30	0.26	0.25	2.6+	0.99+	44+
PAH Benzo(k)fluoranthene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	77+	37+	1200+
PAH Benzo(a)pyrene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	0.14	2.2+	0.97+	35+
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	0.10	0.12	0.51	0.27	0.80	27+	9.5+	500+
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.24+	0.14+	3.5+
PAH Benzo(g,h,i)perylene	mg/kg	6.05	0.10	< 0.10	0.13	0.12	0.23	320+	290+	3900+
Pentachlorophenol	mg/kg	6.32	0.100	< 0.100	< 0.100	< 0.100	< 0.100	---	---	---
Benzene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37+	0.075+	90+
Toluene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	660+	120+	4360+
Ethyl Benzene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	260+	91+	2840+
Xylene	mg/kg	6.11	1.0	< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+

Limits labelled '+' are S4ULs (Suitable for Use Levels) taken from The LQM/CIEH S4ULs for Human Health Risk Assessment soil guideline values published by Land Quality Ltd. 2015
Limits labelled '++' are C4SLs Category 4 Screening levels from Appendix H provisional C4SLs for lead and based upon Soil Guideline Values



ENVIROCHEM

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Client: Parchow Groundworks
Site: 406 North Street, Emsworth, PO10 7DA

Sampled By: Client

Envirochem Job No. 24-40542

Submitted by: Client
Date Received: 5 February 2024
Date Completed: 16 February 2024
Date Issued: 16 February 2024

Lab Sample No. Deviating Codes Soil Type Sample Date Sample Time				130266 AD Sandy Loam // NotSupplied Plot 31D Topsoil	130267 AD Sandy Loam // NotSupplied Plot 31E Topsoil	130268 AD Clay Stones // NotSupplied Plot 16A Subsoil	130269 AD Clay Stones // NotSupplied Plot 16B Subsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
total PCBs	µg/kg	6.06	10	< 10.0	< 10.0	< 10.0	< 10.0	---	---	---
phenol index soil	mg/kg	6.19	0.3	5.3	5.9	1.8	3.8	1100+	280+	3200+
Particle size > 2mm	%	5.01	-	7.7	10.6	13.1	15.0	---	---	---
water content 105C	%	6.01	1	30.0	30.6	24.1	26.7	---	---	---
% water , air dried(<30°)	%	5.01	1.0	26.7	20.9	44.4	21.6	---	---	---
pH	pH Units	5.06, 6.03	1.0	7.40 M*	7.38 M*	7.49 M*	7.96 M*	---	---	---
Free cyanide	mg/kg	6.19	0.03	< 0.025	< 0.025	< 0.025	< 0.025	---	---	---
arsenic	mg/kg	5.18, 6.08	4	5.0 M*	4.2 M*	9.7 M*	6.1 M*	37+	43+	640+
boron total	mg/kg	5.18, 6.08	10	49	49	93	41	290+	45+	24000
cadmium	mg/kg	5.18, 6.08	1	< 0.5 M*	< 0.5 M*	1.3 M*	< 0.5 M*	11+	1.9+	190+
Chromium III	mg/kg	6.19	5.0	16.8	13.7	32.0	17.2	910+	18000+	8600+
chromium	mg/kg	5.18, 6.08	0	17 M*	14 M*	32 M*	17 M*	---	---	---
Chromium VI	mg/kg	6.19	0.1	< 0.05	< 0.05	< 0.05	< 0.05	6+	1.8+	33+
copper	mg/kg	5.18, 6.08	0	28 M*	36 M*	19 M*	16 M*	2400+	520+	68000+
mercury	mg/kg	5.18, 6.08	0	< 0.2 M*	< 0.2 M*	< 0.2 M*	< 0.2 M*	1.2+	21+	25.8+
nickel	mg/kg	5.18, 6.08	0	12 M*	13 M*	29 M*	13 M*	180+	230+	980+
lead	mg/kg	5.18, 6.08	40	< 40 M*	< 40 M*	60 M*	< 40 M*	210++	84++	1100++
selenium	mg/kg	5.18, 6.08	0	< 1 M*	< 1 M*	1 M*	< 1 M*	250+	88+	12000+
zinc	mg/kg	5.18, 6.08	20	89 M*	91 M*	97 M*	54 M*	3700+	620+	73000
total TPH (C10 - C40)	mg/kg	6.04	50	144	172	< 50.0	60.5	---	---	---
TPH Aliphatic (C8-C10)	mg/kg	6.04	5.0	< 5.00	< 5.00	< 5.00	< 5.00	27+	320+	2000+
TPH Aliphatic (C10-C12)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	130+	2200+	9700+
TPH Aliphatic (C12-C16)	mg/kg	6.04	5	7.1	8.3	< 5.0	< 5.0	1100+	11000+	59000+
TPH Aliphatic (C16-C21)	mg/kg	6.04	5	8.9	9.7	< 5.0	< 5.0	65000+	26000	16000
TPH Aliphatic (C21-C40)	mg/kg	6.04	5	30.7	20.8	6.9	6.3	65000+	26000	16000
TPH Aromatic (C8-C10)	mg/kg	6.04	5.0	< 5.00	< 5.00	< 5.00	< 5.00	34+	8.6+	3500+
TPH Aromatic (C10-C12)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	74+	13+	16000+
TPH Aromatic (C12-C16)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	140+	23+	36000+
TPH Aromatic (C16-C21)	mg/kg	6.04	5	5.9	6.4	< 5.0	< 5.0	260+	46+	28000+
TPH Aromatic (C21-C40)	mg/kg	6.04	5	85.1	119	8.6	48.9	1100+	370+	28000+
total PAHs	mg/kg	6.05	2	< 2.0	< 2.0	< 2.0	< 2.0	---	---	---



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				Lab Sample No. Deviating Codes Soil Type Sample Date Sample Time	130266 AD Sandy Loam // NotSupplied Plot 31D Topsoil	130267 AD Sandy Loam // NotSupplied Plot 31E Topsoil	130268 AD Clay Stones // NotSupplied Plot 16A Subsoil	130269 AD Clay Stones // NotSupplied Plot 16B Subsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit						Resid.	Allot.	Comm.
PAH Napthalene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	2.3+	4.1+	190+
PAH Acenaphthylene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	170+	28+	83000+
PAH Acenaphthene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	210+	34+	84000+
PAH Fluorene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	170+	27+	63000+
PAH Anthracene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	2400+	380+	52000
PAH Phenanthrene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	95+	15+	22000+
PAH Fluoranthene	mg/kg	6.05	0.1		0.20	0.26	< 0.10	< 0.10	280+	52+	23000+
PAH Pyrene	mg/kg	6.05	0.1		0.16	0.20	< 0.10	< 0.10	620+	110+	54000+
PAH Benz(a)anthracene	mg/kg	6.05	0.1		< 0.10	0.12	< 0.10	< 0.10	7.2+	2.9+	170+
PAH Chrysene	mg/kg	6.05	0.1		< 0.10	0.12	< 0.10	< 0.10	15+	4.1+	350+
PAH Benzo(b)fluoranthene	mg/kg	6.05	0.1		0.20	0.25	< 0.10	< 0.10	2.6+	0.99+	44+
PAH Benzo(k)fluoranthene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	77+	37+	1200+
PAH Benzo(a)pyrene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	2.2+	0.97+	35+
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	0.1		0.13	0.15	< 0.10	< 0.10	27+	9.5+	500+
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	0.1		< 0.10	< 0.10	< 0.10	< 0.10	0.24+	0.14+	3.5+
PAH Benzo(g,h,i)perylene	mg/kg	6.05	0.1		< 0.10	0.11	< 0.10	< 0.10	320+	290+	3900+
Pentachlorophenol	mg/kg	6.32	0.10		< 0.100	< 0.100	< 0.100	< 0.100	---	---	---
Benzene	mg/kg	6.11	1		< 1.0	< 1.0	< 1.0	< 1.0	0.37+	0.075+	90+
Toluene	mg/kg	6.11	1		< 1.0	< 1.0	< 1.0	< 1.0	660+	120+	4360+
Ethyl Benzene	mg/kg	6.11	1		< 1.0	< 1.0	< 1.0	< 1.0	260+	91+	2840+
Xylene	mg/kg	6.11	1		< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+



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Lab Sample No. Deviating Codes Soil Type Sample Date Sample Time				130270 AD Clay Stones // NotSupplied Plot 16C Subsoil	130271 AD Clay Stones // NotSupplied Plot 31C Subsoil	130272 AD Clay Stones // NotSupplied Plot 31D Subsoil	130273 AD Clay Stones // NotSupplied Plot 31E Subsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
total PCBs	µg/kg	6.06	10	< 10.0	< 10.0	< 10.0	< 10.0	310+	160+	3170+
phenol index soil	mg/kg	6.19	0.3	2.2	2.6	0.98	1.2	310+	160+	3170+
Particle size > 2mm	%	5.01	-	17.3	45.0	49.9	19.2	310+	160+	3170+
water content 105C	%	6.01	1	23.2	16.5	17.4	23.3	310+	160+	3170+
% water , air dried(<30°)	%	5.01	1.0	27.5	26.6	28.6	21.2	310+	160+	3170+
pH	pH Units	5.06, 6.03	1.0	7.75 M*	7.52 M*	7.50 M*	7.48 M*	310+	160+	3170+
Free cyanide	mg/kg	6.19	0.03	< 0.025	< 0.025	< 0.025	< 0.025	310+	160+	3170+
arsenic	mg/kg	5.18, 6.08	4	10.4 M*	10.1 M*	9.3 M*	8.3 M*	310+	160+	3170+
boron total	mg/kg	5.18, 6.08	10	76	84	73	67	310+	160+	3170+
cadmium	mg/kg	5.18, 6.08	1	1.2 M*	1.3 M*	1.1 M*	1.2 M*	310+	160+	3170+
Chromium III	mg/kg	6.19	5.0	29.8	33.2	30.0	28.8	310+	160+	3170+
chromium	mg/kg	5.18, 6.08	0	30 M*	33 M*	30 M*	29 M*	310+	160+	3170+
Chromium VI	mg/kg	6.19	0.1	< 0.05	< 0.05	< 0.05	< 0.05	310+	160+	3170+
copper	mg/kg	5.18, 6.08	0	25 M*	20 M*	19 M*	18 M*	310+	160+	3170+
mercury	mg/kg	5.18, 6.08	0	< 0.2 M*	< 0.2 M*	< 0.2 M*	< 0.2 M*	310+	160+	3170+
nickel	mg/kg	5.18, 6.08	0	28 M*	29 M*	29 M*	27 M*	310+	160+	3170+
lead	mg/kg	5.18, 6.08	40	65 M*	62 M*	42 M*	46 M*	310+	160+	3170+
selenium	mg/kg	5.18, 6.08	0	1 M*	< 1 M*	< 1 M*	1 M*	310+	160+	3170+
zinc	mg/kg	5.18, 6.08	20	108 M*	102 M*	86 M*	84 M*	310+	160+	3170+
total TPH (C10 - C40)	mg/kg	6.04	50	< 50.0	< 50.0	< 50.0	< 50.0	310+	160+	3170+
TPH Aliphatic (C8-C10)	mg/kg	6.04	5.0	< 5.00	< 5.00	< 5.00	< 5.00	310+	160+	3170+
TPH Aliphatic (C10-C12)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aliphatic (C12-C16)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aliphatic (C16-C21)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aliphatic (C21-C40)	mg/kg	6.04	5	7.0	< 5.0	5.1	< 5.0	310+	160+	3170+
TPH Aromatic (C8-C10)	mg/kg	6.04	5.0	< 5.00	< 5.00	< 5.00	< 5.00	310+	160+	3170+
TPH Aromatic (C10-C12)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aromatic (C12-C16)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aromatic (C16-C21)	mg/kg	6.04	5	< 5.0	< 5.0	< 5.0	< 5.0	310+	160+	3170+
TPH Aromatic (C21-C40)	mg/kg	6.04	5	14.6	13.3	7.9	13.6	310+	160+	3170+
total PAHs	mg/kg	6.05	2	4.0	< 2.0	< 2.0	< 2.0	310+	160+	3170+



ENVIROCHEM

Analytical Laboratories Ltd.

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Client: Parchow Groundworks
Site: 406 North Street, Emsworth, PO10 7DA

Sampled By: Client

Envirochem Job No. 24-40542

Submitted by: Client
Date Received: 5 February 2024
Date Completed: 16 February 2024
Date Issued: 16 February 2024

Lab Sample No. Deviating Codes Soil Type Sample Date Sample Time				130270 AD Clay Stones // NotSupplied Plot 16C Subsoil	130271 AD Clay Stones // NotSupplied Plot 31C Subsoil	130272 AD Clay Stones // NotSupplied Plot 31D Subsoil	130273 AD Clay Stones // NotSupplied Plot 31E Subsoil	Limits (mg/kg)		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
PAH Napthalene	mg/kg	6.05	0.1	< 0.10	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Acenaphthylene	mg/kg	6.05	0.1	< 0.10	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Acenaphthene	mg/kg	6.05	0.1	< 0.10	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Fluorene	mg/kg	6.05	0.1	< 0.10	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Anthracene	mg/kg	6.05	0.1	0.12	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Phenanthrene	mg/kg	6.05	0.1	< 0.10	0.12	< 0.10	< 0.10	310+	160+	3170+
PAH Fluoranthene	mg/kg	6.05	0.1	0.43	0.12	< 0.10	< 0.10	310+	160+	3170+
PAH Pyrene	mg/kg	6.05	0.1	0.38	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Benz(a)anthracene	mg/kg	6.05	0.1	0.27	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Chrysene	mg/kg	6.05	0.1	0.28	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Benzo(b)fluoranthene	mg/kg	6.05	0.1	0.70	0.11	< 0.10	< 0.10	310+	160+	3170+
PAH Benzo(k)fluoranthene	mg/kg	6.05	0.1	< 0.10	0.12	< 0.10	< 0.10	310+	160+	3170+
PAH Benzo(a)pyrene	mg/kg	6.05	0.1	0.14	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Indeno(1,2,3-c,d)pyrene	mg/kg	6.05	0.1	1.20	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Dibenzo(a,h)anthracene	mg/kg	6.05	0.1	< 0.10	< 0.10	< 0.10	< 0.10	310+	160+	3170+
PAH Benzo(g,h,i)perylene	mg/kg	6.05	0.1	0.29	< 0.10	< 0.10	< 0.10	310+	160+	3170+
Pentachlorophenol	mg/kg	6.32	0.10	< 0.100	< 0.100	< 0.100	< 0.100	310+	160+	3170+
Benzene	mg/kg	6.11	1	< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+
Toluene	mg/kg	6.11	1	< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+
Ethyl Benzene	mg/kg	6.11	1	< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+
Xylene	mg/kg	6.11	1	< 1.0	< 1.0	< 1.0	< 1.0	310+	160+	3170+

Limits labelled '+' are S4ULs (Suitable for Use Levels) taken from The LQM/CIEH S4ULs for Human Health Risk Assessment soil guideline values published by Land Quality Ltd. 2015
Limits labelled '++' are C4SLs Category 4 Screening levels from Appendix H provisional C4SLs for lead and based upon Soil Guideline Values



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Method Summaries:-

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

Deviating Codes:

- A - No sample date provided
- B - No sample time provided (water samples only)
- C - Incorrect sample container
- D - Incorrect storage temperature
- E - Insufficient sample
- F - Time from sampling to receipt exceeded
- G - Time from sampling to analysis exceeded
- P - No sample preservative (for bacti samples only)
- N - No temperature recorded
- I - Insufficient paint supplied(<0.1g)

