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Analytical Report Number : 20-29048

Project / Site name:	Clarendon Road	Samples received on:	09/09/2020
Your job number:	6075	Samples instructed on/ Analysis started on:	09/09/2020
Your order number:	S-RE6075/00005	Analysis completed by:	14/09/2020
Report Issue Number:	1	Report issued on:	14/09/2020
Samples Analysed:	13 leachate samples - 13 soil samples		

Signed:

Rachel Bradley
Deputy Quality Manager
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road

Your Order No: S-RE6075/00005

Lab Sample Number				1615597	1615598	1615599	1615600
Sample Reference				VS-Q5	VS-M7	VS-M8	VS-M9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO4	mg/l	0.1	ISO 17025	12.3	330	374	148
Ammonium as NH4	µg/l	15	NONE	52	320	190	220

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road

Your Order No: S-RE6075/00005

Lab Sample Number				1615601	1615602	1615603	1615604
Sample Reference				VS-Q5-E	VS-9E	VS-T10E	VS-R7-E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	29.8	171	596	156
Ammonium as NH ₄	µg/l	15	NONE	120	28	40	22

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road

Your Order No: S-RE6075/00005

Lab Sample Number	1615605	1615606	1615607	1615608
Sample Reference	VS-R6-E	VS-NI2	SP-37	SP-37.2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/09/2020	09/09/2020	09/09/2020	09/09/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO4	mg/l	0.1	ISO 17025	93.3	808	54.9	36.9
Ammonium as NH4	µg/l	15	NONE	95	270	11000	7300

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road

Your Order No: S-RE6075/00005

Lab Sample Number				1615609
Sample Reference				SP-37.3
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				09/09/2020
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

Sulphate as SO ₄	mg/l	0.1	ISO 17025	134
Ammonium as NH ₄	µg/l	15	NONE	15000

U/S = Unsuitable Sample I/S = Insufficient Sample





Analytical Report Number: 20-29048
Project / Site name: Clarendon Road
Your Order No: S-RE6075/00005

Lab Sample Number	1615584	1615585	1615586	1615587
Sample Reference	VS-Q5	VS-M7	VS-M8	VS-M9
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	09/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	16	16	10
Total mass of sample received	kg	0.001	NONE	1.7	2	2	2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.11	1.1	1.9	0.97
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	220	2300	3700	1900
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	108	1130	1870	974
Ammonium as NH ₄	mg/kg	0.5	MCERTS	0.7	3.1	2.3	2

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-

VOCs

Vinyl Chloride	µg/kg	1	NONE	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-



Analytical Report Number: 20-29048
 Project / Site name: Clarendon Road
 Your Order No: S-RE6075/00005

Lab Sample Number				1615584	1615585	1615586	1615587
Sample Reference				VS-Q5	VS-M7	VS-M8	VS-M9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				09/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-

SVOCs

Phenol	mg/kg	0.2	ISO 17025	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road
Your Order No: S-RE6075/00005

Lab Sample Number	1615588	1615589	1615590	1615591
Sample Reference	VS-Q5-E	VS-9E	VS-T10E	VS-R7-E
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	6.9	13	15	13
Total mass of sample received	kg	0.001	NONE	2	2	2	2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	0.19	1.5	2.1	1.8
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	380	2900	4200	3500
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	191	1450	2120	1760
Ammonium as NH ₄	mg/kg	0.5	MCERTS	1	< 0.5	< 0.5	1.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-

VOCs

Vinyl Chloride	µg/kg	1	NONE	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-



Analytical Report Number: 20-29048
 Project / Site name: Clarendon Road
 Your Order No: S-RE6075/00005

Lab Sample Number				1615588	1615589	1615590	1615591
Sample Reference				VS-Q5-E	VS-9E	VS-T10E	VS-R7-E
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/09/2020	08/09/2020	08/09/2020	08/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-

SVOCs

Phenol	mg/kg	0.2	ISO 17025	-	-	-	-
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
Project / Site name: Clarendon Road
Your Order No: S-RE6075/00005

Lab Sample Number	1615592	1615593	1615594	1615595
Sample Reference	VS-R6-E	VS-NI2	SP-37	SP-37.2
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled	08/09/2020	09/09/2020	09/09/2020	09/09/2020
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	11	27	23
Total mass of sample received	kg	0.001	NONE	2	1.6	2	2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	1.9	2.3	0.28	0.46
Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	3900	4500	560	910
Water Soluble SO4 (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	1930	2270	281	457
Ammonium as NH4	mg/kg	0.5	MCERTS	< 0.5	1.3	190	110

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	9.2	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	3.9	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	15	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	10	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	10	1.1
Pyrene	mg/kg	0.05	MCERTS	-	-	15	1.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	4.9	0.63

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	87	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	31	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	39	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	22	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	62	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	31	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	32	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	150	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	0.49	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	49	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	230	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	310	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	140	17
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	730	26

VOCs

Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0



Analytical Report Number: 20-29048
 Project / Site name: Clarendon Road
 Your Order No: S-RE6075/00005

Lab Sample Number				1615592	1615593	1615594	1615595
Sample Reference				VS-R6-E	VS-NI2	SP-37	SP-37.2
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				08/09/2020	09/09/2020	09/09/2020	09/09/2020
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0

SVOCs

Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	< 0.2
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U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 20-29048
 Project / Site name: Clarendon Road
 Your Order No: S-RE6075/00005

Lab Sample Number	1615596			
Sample Reference	SP-37.3			
Sample Number	None Supplied			
Depth (m)	None Supplied			
Date Sampled	09/09/2020			
Time Taken	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	N/A	NONE	20
Total mass of sample received	kg	0.001	NONE	2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
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General Inorganics

Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	g/l	0.00125	MCERTS	2
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/kg	2.5	MCERTS	4000
Water Soluble SO ₄ (2:1 Leach. Equiv.) 1hr extraction	mg/l	1.25	MCERTS	2010
Ammonium as NH ₄	mg/kg	0.5	MCERTS	460

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.82
Acenaphthene	mg/kg	0.05	MCERTS	0.81
Fluorene	mg/kg	0.05	MCERTS	1.3
Anthracene	mg/kg	0.05	MCERTS	1.5
Fluoranthene	mg/kg	0.05	MCERTS	6.9
Pyrene	mg/kg	0.05	MCERTS	6.9
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.1

Monoaromatics & Oxygenates

Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	21
p & m-xylene	µg/kg	1	MCERTS	25
o-xylene	µg/kg	1	MCERTS	19
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	2.2
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	23
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	62
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	87

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	0.1
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	13
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	45
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	55
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	110

VOCs

Vinyl Chloride	µg/kg	1	NONE	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0



Analytical Report Number: 20-29048
 Project / Site name: Clarendon Road
 Your Order No: S-RE6075/00005

Lab Sample Number				1615596
Sample Reference				SP-37.3
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				09/09/2020
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0

SVOCs

Phenol	mg/kg	0.2	ISO 17025	< 0.2
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U/S = Unsuitable Sample I/S = Insufficient Sample



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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1615584	VS-Q5	None Supplied	None Supplied	Brown clay with gravel and vegetation.
1615585	VS-M7	None Supplied	None Supplied	Brown clay with gravel and vegetation.
1615586	VS-M8	None Supplied	None Supplied	Brown clay with gravel.
1615587	VS-M9	None Supplied	None Supplied	Brown clay with gravel and vegetation.
1615588	VS-Q5-E	None Supplied	None Supplied	Brown clay with gravel.
1615589	VS-9E	None Supplied	None Supplied	Brown clay and sand with clinker and gravel
1615590	VS-T10E	None Supplied	None Supplied	Brown clay and sand with vegetation and gravel
1615591	VS-R7-E	None Supplied	None Supplied	Brown clay and sand with brick and rubble.
1615592	VS-R6-E	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation.
1615593	VS-N12	None Supplied	None Supplied	Brown clay and sand with gravel.
1615594	SP-37	None Supplied	None Supplied	Grey clay with gravel and vegetation.
1615595	SP-37.2	None Supplied	None Supplied	Grey clay with gravel.
1615596	SP-37.3	None Supplied	None Supplied	Grey clay with gravel.



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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
NRA Leachate Prep	10:1 extract with de-ionised water shaken for 24 hours then filtered.	In-house method based on National Rivers Authority	L020-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	ISO 17025
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Ammonium as NH4 in leachate	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	NONE
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
Sulphate, water soluble, in soil (1hr extraction)	Sulphate, water soluble, in soil (1hr extraction)	In-house method	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



Sample Deviation Report



Analytical Report Number : 20-29048

Project / Site name: Clarendon Road

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
SP-37	None Supplied	S	1615594	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
SP-37	None Supplied	S	1615594	b	Semi-volatile organic compounds in soil	L064-PL	b
SP-37	None Supplied	S	1615594	b	Speciated EPA-16 PAHs in soil	L064-PL	b
SP-37	None Supplied	S	1615594	b	TPHCWG (Soil)	L088/76-PL	b
SP-37	None Supplied	S	1615594	b	Volatile organic compounds in soil	L073B-PL	b
SP-37.2	None Supplied	S	1615595	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
SP-37.2	None Supplied	S	1615595	b	Semi-volatile organic compounds in soil	L064-PL	b
SP-37.2	None Supplied	S	1615595	b	Speciated EPA-16 PAHs in soil	L064-PL	b
SP-37.2	None Supplied	S	1615595	b	TPHCWG (Soil)	L088/76-PL	b
SP-37.2	None Supplied	S	1615595	b	Volatile organic compounds in soil	L073B-PL	b
SP-37.3	None Supplied	S	1615596	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
SP-37.3	None Supplied	S	1615596	b	Semi-volatile organic compounds in soil	L064-PL	b
SP-37.3	None Supplied	S	1615596	b	Speciated EPA-16 PAHs in soil	L064-PL	b
SP-37.3	None Supplied	S	1615596	b	TPHCWG (Soil)	L088/76-PL	b
SP-37.3	None Supplied	S	1615596	b	Volatile organic compounds in soil	L073B-PL	b