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QTS Environmental Report No: 18-69810

Site Reference: Ruabon Park

Project / Job Ref: A2352

Order No: A2352

Sample Receipt Date: 24/01/2018

Sample Scheduled Date: 24/01/2018

Report Issue Number: 1

Reporting Date: 30/01/2018

Authorised by:

Kevin Old
Associate Director of Laboratory

Authorised by:

Russell Jarvis
Associate Director of Client Services

QTSE is the trading name of DETS Ltd, company registration number 03705645



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Soil Analysis Certificate						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS1	WS1	WS2	WS2	WS3
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.20	0.50	0.20	0.80	0.20
Reporting Date: 30/01/2018	QTSE Sample No	312742	312743	312744	312745	312746

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.2	7.4	7.6	7.7	7.4
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	3	< 2	4
Complex Cyanide	mg/kg	< 2	NONE	< 2	< 2	3	< 2	4
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	NONE	404	< 200	363	< 200	420
Total Sulphate as SO ₄	%	< 0.02	NONE	0.04	< 0.02	0.04	< 0.02	0.04
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	14	< 10	< 10	10	< 10
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.01	< 0.01	< 0.01	0.01	< 0.01
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter	%	< 0.1	MCERTS	5	0.9	4.4	0.5	5.6
Arsenic (As)	mg/kg	< 2	MCERTS	4	< 2	7	< 2	6
Barium (Ba)	mg/kg	< 5	NONE	84	49	102	48	106
Beryllium (Be)	mg/kg	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.5	< 0.2	1.1	< 0.2	1.6
Chromium (Cr)	mg/kg	< 2	MCERTS	21	23	26	18	31
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	25	20	31	18	32
Lead (Pb)	mg/kg	< 3	MCERTS	105	54	140	55	146
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	14	21	19	20	19
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 2	NONE	28	27	36	17	46
Zinc (Zn)	mg/kg	< 3	MCERTS	107	69	179	42	208
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	2.8
EPH (C10 - C40)	mg/kg	< 6	MCERTS	26	< 6	53	< 6	30

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



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Soil Analysis Certificate

QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS3	WS4	WS4	WS5	WS5
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.50	0.20	0.70	0.50	1.50
Reporting Date: 30/01/2018	QTSE Sample No	312747	312748	312749	312750	312751

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.5	7.3	7.5	7.4	7.4
Total Cyanide	mg/kg	< 2	NONE	< 2	3	< 2	< 2	< 2
Complex Cyanide	mg/kg	< 2	NONE	< 2	3	< 2	< 2	< 2
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	NONE	< 200	434	< 200	< 200	< 200
Total Sulphate as SO ₄	%	< 0.02	NONE	< 0.02	0.04	< 0.02	< 0.02	< 0.02
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	< 10	12	< 10	24	27
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	< 0.01	0.01	< 0.01	0.02	0.03
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter	%	< 0.1	MCERTS	1	5.8	1.3	1.3	0.8
Arsenic (As)	mg/kg	< 2	MCERTS	< 2	5	4	2	< 2
Barium (Ba)	mg/kg	< 5	NONE	32	129	60	79	27
Beryllium (Be)	mg/kg	< 0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	1.1	0.3	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	18	26	18	14	17
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	14	35	21	16	13
Lead (Pb)	mg/kg	< 3	MCERTS	46	146	106	65	34
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	27	20	23	17	20
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 2	NONE	19	35	23	17	17
Zinc (Zn)	mg/kg	< 3	MCERTS	79	201	81	51	64
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	3.6	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	< 6	55	< 6	14	< 6

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Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS1	WS1	WS2	WS2	WS3
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.20	0.50	0.20	0.80	0.20
Reporting Date: 30/01/2018	QTSE Sample No	312742	312743	312744	312745	312746

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - Speciated PAHs						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS3	WS4	WS4	WS5	WS5
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.50	0.20	0.70	0.50	1.50
Reporting Date: 30/01/2018	QTSE Sample No	312747	312748	312749	312750	312751

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.14	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.12	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	0.12	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.14	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6

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Soil Analysis Certificate - TPH CWG Banded						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS1	WS1	WS2	WS2	WS3
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.20	0.50	0.20	0.80	0.20
Reporting Date: 30/01/2018	QTSE Sample No	312742	312743	312744	312745	312746

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - TPH CWG Banded						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS3	WS4	WS4	WS5	WS5
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.50	0.20	0.70	0.50	1.50
Reporting Date: 30/01/2018	QTSE Sample No	312747	312748	312749	312750	312751

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	< 42	< 42

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Soil Analysis Certificate - BTEX / MTBE						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS1	WS1	WS2	WS2	WS3
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.20	0.50	0.20	0.80	0.20
Reporting Date: 30/01/2018	QTSE Sample No	312742	312743	312744	312745	312746

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

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Soil Analysis Certificate - BTEX / MTBE						
QTS Environmental Report No: 18-69810	Date Sampled	19/01/18	19/01/18	19/01/18	19/01/18	19/01/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Ruabon Park	TP / BH No	WS3	WS4	WS4	WS5	WS5
Project / Job Ref: A2352	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2352	Depth (m)	0.50	0.20	0.70	0.50	1.50
Reporting Date: 30/01/2018	QTSE Sample No	312747	312748	312749	312750	312751

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

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3																																							
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--	>6	--																																					
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Earth Environmental & Geotechnical Ltd		Time Sampled	None Supplied																																				
Site Reference: Ruabon Park		TP / BH No	WS1																																				
Project / Job Ref: A2352		Additional Refs	None Supplied																																				
Order No: A2352		Depth (m)	0.20																																				
Reporting Date: 30/01/2018		QTSE Sample No	312742																																				
Determinand	Unit	MDL																																					
TOC ^{MU}	%	< 0.1	2.9																																				
Loss on Ignition	%	< 0.01	8																																				
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																				
Sum of PCBs	mg/kg	< 0.1	< 0.1																																				
Mineral Oil ^{MU}	mg/kg	< 10	< 10																																				
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7																																				
pH ^{MU}	pH Units	N/a	7.2																																				
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.5																																				
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																																
Arsenic ^U			< 0.01	< 0.01		< 0.2	0.5	2	25																														
Barium ^U			0.02	< 0.02		0.1	20	100	300																														
Cadmium ^U			< 0.0005	< 0.0005		< 0.02	0.04	1	5																														
Chromium ^U			< 0.005	< 0.005		< 0.20	0.5	10	70																														
Copper ^U			< 0.01	< 0.01		< 0.5	2	50	100																														
Mercury ^U			< 0.005	< 0.005		< 0.01	0.01	0.2	2																														
Molybdenum ^U			0.004	0.002		< 0.1	0.5	10	30																														
Nickel ^U			< 0.007	< 0.007		< 0.2	0.4	10	40																														
Lead ^U			0.007	0.006		< 0.2	0.5	10	50																														
Antimony ^U			0.007	< 0.005		< 0.06	0.06	0.7	5																														
Selenium ^U			< 0.005	< 0.005		< 0.1	0.1	0.5	7																														
Zinc ^U			0.010	0.007		< 0.2	4	50	200																														
Chloride ^U			3	2		25	800	15000	25000																														
Fluoride ^U			0.5	0.6		5.7	10	150	500																														
Sulphate ^U			2	2		< 20	1000	20000	50000																														
TDS			84	48		525	4000	60000	100000																														
Phenol Index			< 0.01	< 0.01		< 0.5	1	-	-																														
DOC			12.8	7		77.3	500	800	1000																														
Leach Test Information																																							
Sample Mass (kg)			0.21																																				
Dry Matter (%)			83.9																																				
Moisture (%)			19.2																																				
Stage 1																																							
Volume Eluate L2 (litres)			0.32																																				
Filtered Eluate VE1 (litres)			0.22																																				
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and QTS Environmental cannot be held responsible for any discrepancies with current legislation M Denotes MCERTS accredited test U Denotes ISO17025 accredited test																																							



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Earth Environmental & Geotechnical Ltd		Time Sampled	None Supplied																																				
Site Reference: Ruabon Park		TP / BH No	WS2																																				
Project / Job Ref: A2352		Additional Refs	None Supplied																																				
Order No: A2352		Depth (m)	0.80																																				
Reporting Date: 30/01/2018		QTSE Sample No	312745																																				
Determinand	Unit	MDL																																					
TOC ^{MU}	%	< 0.1	0.3																																				
Loss on Ignition	%	< 0.01	1.40																																				
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																				
Sum of PCBs	mg/kg	< 0.1	< 0.1																																				
Mineral Oil ^{MU}	mg/kg	< 10	< 10																																				
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7																																				
pH ^{MU}	pH Units	N/a	7.7																																				
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1																																				
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																																
Arsenic ^U		< 0.01	< 0.01		< 0.2	0.5	2	25																															
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Cadmium ^U		< 0.0005	< 0.0005		< 0.02	0.04	1	5																															
Chromium ^U		< 0.005	< 0.005		< 0.20	0.5	10	70																															
Copper ^U		< 0.01	< 0.01		< 0.5	2	50	100																															
Mercury ^U		< 0.005	< 0.005		< 0.01	0.01	0.2	2																															
Molybdenum ^U		0.001	< 0.001		< 0.1	0.5	10	30																															
Nickel ^U		< 0.007	< 0.007		< 0.2	0.4	10	40																															
Lead ^U		< 0.005	< 0.005		< 0.2	0.5	10	50																															
Antimony ^U		< 0.005	< 0.005		< 0.06	0.06	0.7	5																															
Selenium ^U		< 0.005	< 0.005		< 0.1	0.1	0.5	7																															
Zinc ^U		< 0.005	< 0.005		< 0.2	4	50	200																															
Chloride ^U		3	2		23	800	15000	25000																															
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500																															
Sulphate ^U		2	2		< 20	1000	20000	50000																															
TDS		39	21		235	4000	60000	100000																															
Phenol Index		< 0.01	< 0.01		< 0.5	1	-	-																															
DOC		4.7	4.6		46.1	500	800	1000																															
Leach Test Information																																							
Sample Mass (kg)			0.19																																				
Dry Matter (%)			94.3																																				
Moisture (%)			6																																				
Stage 1																																							
Volume Eluate L2 (litres)			0.34																																				
Filtered Eluate VE1 (litres)			0.24																																				
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Earth Environmental & Geotechnical Ltd		Time Sampled	None Supplied																																				
Site Reference: Ruabon Park		TP / BH No	WS5																																				
Project / Job Ref: A2352		Additional Refs	None Supplied																																				
Order No: A2352		Depth (m)	0.50																																				
Reporting Date: 30/01/2018		QTSE Sample No	312750																																				
Determinand	Unit	MDL																																					
TOC ^{MU}	%	< 0.1	0.8																																				
Loss on Ignition	%	< 0.01	2.20																																				
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																				
Sum of PCBs	mg/kg	< 0.1	< 0.1																																				
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Cadmium ^U		< 0.0005	< 0.0005		< 0.02	0.04	1	5																															
Chromium ^U		< 0.005	< 0.005		< 0.20	0.5	10	70																															
Copper ^U		< 0.01	< 0.01		< 0.5	2	50	100																															
Mercury ^U		< 0.005	< 0.005		< 0.01	0.01	0.2	2																															
Molybdenum ^U		0.003	0.002		< 0.1	0.5	10	30																															
Nickel ^U		< 0.007	< 0.007		< 0.2	0.4	10	40																															
Lead ^U		< 0.005	< 0.005		< 0.2	0.5	10	50																															
Antimony ^U		< 0.005	< 0.005		< 0.06	0.06	0.7	5																															
Selenium ^U		< 0.005	< 0.005		< 0.1	0.1	0.5	7																															
Zinc ^U		0.012	< 0.005		< 0.2	4	50	200																															
Chloride ^U		5	7		68	800	15000	25000																															
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500																															
Sulphate ^U		11	5		58	1000	20000	50000																															
TDS		113	63		692	4000	60000	100000																															
Phenol Index		< 0.01	< 0.01		< 0.5	1	-	-																															
DOC		8.6	7.5		76.2	500	800	1000																															
Leach Test Information																																							
Sample Mass (kg)			0.19																																				
Dry Matter (%)			91.2																																				
Moisture (%)			9.6																																				
Stage 1																																							
Volume Eluate L2 (litres)			0.33																																				
Filtered Eluate VE1 (litres)			0.22																																				
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Earth Environmental & Geotechnical Ltd		Time Sampled	None Supplied																																				
Site Reference: Ruabon Park		TP / BH No	WS5																																				
Project / Job Ref: A2352		Additional Refs	None Supplied																																				
Order No: A2352		Depth (m)	1.50																																				
Reporting Date: 30/01/2018		QTSE Sample No	312751																																				
Determinand	Unit	MDL																																					
TOC ^{MU}	%	< 0.1	0.5																																				
Loss on Ignition	%	< 0.01	1.60																																				
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																				
Sum of PCBs	mg/kg	< 0.1	< 0.1																																				
Mineral Oil ^{MU}	mg/kg	< 10	< 10																																				
Total PAH ^{MU}	mg/kg	< 1.7	< 1.7																																				
pH ^{MU}	pH Units	N/a	7.4																																				
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1																																				
Eluate Analysis			2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																																
Arsenic ^U		< 0.01	< 0.01		< 0.2	0.5	2	25																															
Barium ^U		< 0.02	< 0.02		< 0.1	20	100	300																															
Cadmium ^U		< 0.0005	< 0.0005		< 0.02	0.04	1	5																															
Chromium ^U		< 0.005	< 0.005		< 0.20	0.5	10	70																															
Copper ^U		< 0.01	< 0.01		< 0.5	2	50	100																															
Mercury ^U		< 0.005	< 0.005		< 0.01	0.01	0.2	2																															
Molybdenum ^U		< 0.001	< 0.001		< 0.1	0.5	10	30																															
Nickel ^U		< 0.007	< 0.007		< 0.2	0.4	10	40																															
Lead ^U		< 0.005	< 0.005		< 0.2	0.5	10	50																															
Antimony ^U		< 0.005	< 0.005		< 0.06	0.06	0.7	5																															
Selenium ^U		< 0.005	< 0.005		< 0.1	0.1	0.5	7																															
Zinc ^U		< 0.005	< 0.005		< 0.2	4	50	200																															
Chloride ^U		3	2		21	800	15000	25000																															
Fluoride ^U		< 0.5	< 0.5		< 1	10	150	500																															
Sulphate ^U		12	3		38	1000	20000	50000																															
TDS		68	26		292	4000	60000	100000																															
Phenol Index		< 0.01	< 0.01		< 0.5	1	-	-																															
DOC		6.4	4.2		43.5	500	800	1000																															
Leach Test Information																																							
Sample Mass (kg)			0.19																																				
Dry Matter (%)			91.1																																				
Moisture (%)			9.8																																				
Stage 1																																							
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Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 18-69810	
Earth Environmental & Geotechnical Ltd	
Site Reference: Ruabon Park	
Project / Job Ref: A2352	
Order No: A2352	
Reporting Date: 30/01/2018	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
312742	WS1	None Supplied	0.20	16.1	Black sandy clay with stones
312743	WS1	None Supplied	0.50	11.3	Brown sandy clay with stones
312744	WS2	None Supplied	0.20	13.5	Black sandy clay with stones
312745	WS2	None Supplied	0.80	5.7	Brown sandy gravel with stones and concrete
312746	WS3	None Supplied	0.20	12.3	Black sandy clay with stones
312747	WS3	None Supplied	0.50	6.5	Brown sandy clay with stones
312748	WS4	None Supplied	0.20	16.8	Black sandy clay with stones
312749	WS4	None Supplied	0.70	7.2	Brown sandy gravel with stones
312750	WS5	None Supplied	0.50	8.8	Brown sandy clay with stones
312751	WS5	None Supplied	1.50	8.9	Brown sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample ^{1/S}
Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information	
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Earth Environmental & Geotechnical Ltd	
Site Reference: Ruabon Park	
Project / Job Ref: A2352	
Order No: A2352	
Reporting Date: 30/01/2018	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
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 iron (II) 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 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	pH	Determination of pH by addition of water followed by electrometric measurement	E007
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% HCl 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	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH 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-MS	E004
Soil	AR	TPH 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-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

D Dried
AR As Received