

SAL Reference: 358175
Project Site: Croxley Rail Link Ground Investigation Phase 1
Customer Reference: TB7219

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	358175 002	358175 003	358175 004	358175 007	358175 008	358175 009	358175 011
Customer Sample Reference	TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00	TP121A ES1 0.30	TP121 ES1 0.30
Test Sample	AR	AR	AR	AR	AR	AR	AR
Date Sampled	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	10-OCT-2013
Top Depth	0.30	0.30	0.80	0.30	1.00	0.30	0.30
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil

Determinand	Method	LOD	Units	Symbol							
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	12	14	6.4	5.7	22	12	9.3
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	17	11	3.2	7.8	13	3.6	7.8

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SAL Reference	358175 012	358175 018	358175 020	358175 022	358175 025	358175 026	358175 027
Customer Sample Reference	CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2
Test Sample	AR	AR	AR	AR	AR	AR	AR
Date Sampled	10-OCT-2013	16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013
Top Depth	0.30	0.2	0.2	0.3	2.5	3.5	0.2
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil

Determinand	Method	LOD	Units	Symbol							
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	11	13	19	10	11	10	19
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	9.0	13	24	12	17	12	20

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SAL Reference	358175 030	358175 031	358175 033	358175 035	358175 039	358175 040	358175 041
Customer Sample Reference	TP129A ES1 0.2	TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40	CP119 ES1 0.30
Test Sample	AR	AR	AR	AR	AR	AR	AR
Date Sampled	16-OCT-2013	15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013
Top Depth	0.2	0.3	0.1	0.2	0.30	0.40	0.30
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	LOD	Units	Symbol							
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	19	17	9.9	13	14	17	4.8
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	20	22	16	20	16	15	5.7

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SAL Reference		358175 002	358175 003	358175 004	358175 007	358175 008	358175 009	358175 011			
Customer Sample Reference		TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00	TP121A ES1 0.30	TP121 ES1 0.30			
Test Sample		AR	AR	AR	AR	AR	AR	AR			
Date Sampled		14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	10-OCT-2013			
Top Depth		0.30	0.30	0.80	0.30	1.00	0.30	0.30			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Boron (water-soluble)	ICP/OES	1	mg/kg	N	<1	<1	<1	<1	<1	<1	<1
Cyanide (Total)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
pH	Probe			M	6.3	7.3	7.3	7.9	7.8	7.2	7.3
Phenols (Total-Mono)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1

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SAL Reference		358175 012	358175 018	358175 020	358175 022	358175 025	358175 026	358175 027			
Customer Sample Reference		CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2			
Test Sample		AR	AR	AR	AR	AR	AR	AR			
Date Sampled		10-OCT-2013	16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	0.2	0.2	0.3	2.5	3.5	0.2			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Boron (water-soluble)	ICP/OES	1	mg/kg	N	<1	<1	<1	<1	<1	<1	<1
Cyanide (Total)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
pH	Probe			M	8.0	7.6	7.6	7.9	7.8	7.9	7.8
Phenols (Total-Mono)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1

SAL Reference: 358175 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219 Soil Analysed as Soil Suite E1											
SAL Reference		358175 030	358175 031	358175 033	358175 035	358175 039	358175 040	358175 041			
Customer Sample Reference		TP129A ES1 0.2	TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40	CP119 ES1 0.30			
Test Sample		AR	AR	AR	AR	AR	AR	AR			
Date Sampled		16-OCT-2013	15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013			
Top Depth		0.2	0.3	0.1	0.2	0.30	0.40	0.30			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Boron (water-soluble)	ICP/OES	1	mg/kg	N	<1	<1	<1	<1	<1	<1	<1
Cyanide (Total)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
pH	Probe			M	8.2	7.7	7.6	7.5	7.8	8.0	8.2
Phenols (Total-Mono)	Colorimetry (CF)	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1

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Suite E1											
SAL Reference		358175 002	358175 003	358175 004	358175 007	358175 008	358175 009	358175 011			
Customer Sample Reference		TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00	TP121A ES1 0.30	TP121 ES1 0.30			
Test Sample		M40	M40	M40	M40	M40	M40	M40			
Date Sampled		14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	10-OCT-2013		
Top Depth		0.30	0.30	0.80	0.30	1.00	0.30	0.30			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Antimony	ICP/OES	1	mg/kg	U	6	13	3	1	<1	9	10
Arsenic	ICP/OES	2	mg/kg	M	17	25	8	7	6	13	23
Beryllium	ICP/OES	2	mg/kg	M	2	3	<2	<2	<2	<2	3
Cadmium	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Chromium	ICP/OES	1	mg/kg	M	130	53	18	20	15	25	35
Copper	ICP/OES	1	mg/kg	M	55	140	25	14	9	120	130
Lead	ICP/OES	1	mg/kg	M	97	220	44	20	17	160	140
Mercury	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Nickel	ICP/OES	1	mg/kg	M	32	38	13	8	11	26	53
Selenium	ICP/OES	3	mg/kg	M	<3	<3	<3	<3	<3	<3	<3
Vanadium	ICP/OES	1	mg/kg	M	50	47	19	31	26	31	60
Zinc	ICP/OES	1	mg/kg	M	130	240	42	37	37	110	190
Total Organic Carbon	OX/IR	0.1	%	N	7.3	16	2.8	3.8	0.6	12	16

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Suite E1											
SAL Reference		358175 012	358175 018	358175 020	358175 022	358175 025	358175 026	358175 027			
Customer Sample Reference		CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2			
Test Sample		M40	M40	M40	M40	M40	M40	M40			
Date Sampled		10-OCT-2013	16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	0.2	0.2	0.3	2.5	3.5	0.2			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Antimony	ICP/OES	1	mg/kg	U	3	11	17	4	<1	<1	7
Arsenic	ICP/OES	2	mg/kg	M	11	38	55	14	4	6	26
Beryllium	ICP/OES	2	mg/kg	M	<2	2	3	<2	<2	<2	<2
Cadmium	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Chromium	ICP/OES	1	mg/kg	M	18	44	67	23	15	12	24
Copper	ICP/OES	1	mg/kg	M	36	90	130	33	7	7	89
Lead	ICP/OES	1	mg/kg	M	180	130	210	70	18	8	95
Mercury	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Nickel	ICP/OES	1	mg/kg	M	17	48	75	21	9	13	41
Selenium	ICP/OES	3	mg/kg	M	<3	<3	<3	<3	<3	<3	<3
Vanadium	ICP/OES	1	mg/kg	M	26	73	120	38	13	15	50
Zinc	ICP/OES	1	mg/kg	M	170	160	230	140	34	23	140
Total Organic Carbon	OX/IR	0.1	%	N	3.3	6.4	7.9	2.4	1.0	0.9	11

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Suite E1

SAL Reference		358175 030	358175 031	358175 033	358175 035	358175 039	358175 040	358175 041
Customer Sample Reference		TP129A ES1 0.2	TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40	CP119 ES1 0.30
Test Sample		M40	M40	M40	M40	M40	M40	M40
Date Sampled		16-OCT-2013	15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013
Top Depth		0.2	0.3	0.1	0.2	0.30	0.40	0.30
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	LOD	Units	Symbol							
Antimony	ICP/OES	1	mg/kg	U	<1	3	10	3	2	4	1
Arsenic	ICP/OES	2	mg/kg	M	3	14	34	15	9	15	6
Beryllium	ICP/OES	2	mg/kg	M	<2	<2	2	<2	<2	5	<2
Cadmium	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Chromium	ICP/OES	1	mg/kg	M	2	23	35	20	16	18	9
Copper	ICP/OES	1	mg/kg	M	1	49	98	65	23	140	12
Lead	ICP/OES	1	mg/kg	M	3	50	80	94	62	42	34
Mercury	ICP/OES	1	mg/kg	M	<1	<1	<1	<1	<1	<1	<1
Nickel	ICP/OES	1	mg/kg	M	2	26	57	25	15	53	10
Selenium	ICP/OES	3	mg/kg	M	<3	<3	<3	<3	<3	<3	<3
Vanadium	ICP/OES	1	mg/kg	M	3	42	68	36	25	37	16
Zinc	ICP/OES	1	mg/kg	M	8	95	120	100	73	55	27
Total Organic Carbon	OX/IR	0.1	%	N	5.1	7.5	8.2	6.2	2.0	23	1.7

SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

SAL Reference		358175 002	358175 003	358175 004	358175 007	358175 008	358175 009	358175 011
Customer Sample Reference		TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00	TP121A ES1 0.30	TP121 ES1 0.30
Test Sample		M105	M105	M105	M105	M105	M105	M105
Date Sampled		14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	10-OCT-2013
Top Depth		0.30	0.30	0.80	0.30	1.00	0.30	0.30
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil

Determinand	Method	LOD	Units	Symbol							
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.4	<0.1	25	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	1.0	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	82	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	60	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	0.2	0.9	<0.1	170	0.2	0.4	0.3
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	0.3	<0.1	69	<0.1	0.1	0.2
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	0.7	1.9	<0.1	130	0.7	1.2	1.2
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	0.6	1.8	<0.1	120	0.6	1.1	1.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	0.2	0.7	<0.1	55	0.3	0.4	0.4
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	0.3	1.0	<0.1	50	0.3	0.5	0.5
Benzo(b)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	0.4	1.2	<0.1	34	<0.1	0.4	0.5
Benzo(k)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	0.2	0.6	<0.1	17	<0.1	0.3	0.3
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	0.2	0.7	<0.1	30	0.2	0.2	0.3
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	0.1	0.3	<0.1	16	<0.1	0.1	0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	4.6	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	0.1	0.4	<0.1	17	<0.1	0.1	0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	3.0	10	<0.1	390	2.6	4.8	5.0

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Soil Analysed as Soil
PAH US EPA 16 (B and K split)

SAL Reference		358175 012	358175 018	358175 020	358175 022	358175 025	358175 026	358175 027
Customer Sample Reference		CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2
Test Sample		M105	M105	M105	M105	M105	M105	M105
Date Sampled		10-OCT-2013	16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013
Top Depth		0.30	0.2	0.2	0.3	2.5	3.5	0.2
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil
Determinand	Method	LOD	Units	Symbol				
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	1.0	0.5	0.5	0.2
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	0.3	0.2	0.2	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	3.0	1.3	1.4	0.4
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	2.7	1.1	1.3	0.3
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	1.3	0.5	0.5	0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	1.3	0.6	0.6	0.1
Benzo(b)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	1.8	0.7	0.7	0.2
Benzo(k)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	0.9	0.3	0.3	0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	1.4	0.4	0.4	0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	0.7	0.2	0.2	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	0.2	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	0.8	0.2	0.2	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	15	6.0	6.3	1.5

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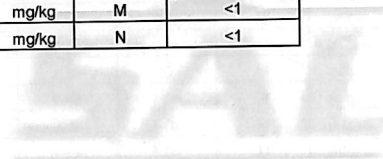
Customer Reference: TB7219

Soil Analysed as Soil
PAH US EPA 16 (B and K split)

SAL Reference		358175 030	358175 031	358175 033	358175 035	358175 039	358175 040	358175 041
Customer Sample Reference		TP129A ES1 0.2	TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40	CP119 ES1 0.30
Test Sample		M105	M105	M105	M105	M105	M105	M105
Date Sampled		16-OCT-2013	15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013
Top Depth		0.2	0.3	0.1	0.2	0.30	0.40	0.30
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	LOD	Units	Symbol				
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	0.4	0.4
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.3	1.0	1.0
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	0.4	0.2
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.7	2.1	1.6
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.7	1.7	1.3
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.2	0.7	0.5
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.3	1.1	0.7
Benzo(b)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.3	1.4	0.9
Benzo(k)fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.1	0.6	0.7
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	0.2	0.6	0.5
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	0.4	0.3
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	0.4	0.3
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	2.8	11	8.4

SAL Reference: 358175 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219 Soil Analysed as Soil Total and Speciated USEPA16 PAH					
SAL Reference					358175 025
Customer Sample Reference					BH102 ES10 2.5
Test Sample					M105
Date Sampled					15-OCT-2013
Top Depth					2.5
Type					Clay
Determinand	Method	LOD	Units	Symbol	
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1

SAL Reference: 358175 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219 Soil Analysed as Soil TPH					
SAL Reference					358175 025
Customer Sample Reference					BH102 ES10 2.5
Test Sample					M105
Date Sampled					15-OCT-2013
Top Depth					2.5
Type					Clay
Determinand	Method	LOD	Units	Symbol	
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1



SAL Reference: 358175							
Project Site: Croxley Rail Link Ground Investigation Phase 1							
Customer Reference: TB7219							
Soil Analysed as Soil							
Phenols (Speciated)							
SAL Reference		358175 007	358175 025	358175 026			
Customer Sample Reference		BH102 ES1 0.30	BH102 ES10 2.5	BH102 ES14 3.5			
Test Sample		AR	AR	AR			
Date Sampled		14-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	2.5	3.5			
Type		Sandy Soil	Clay	Clay			
Determinand	Method	LOD	Units	Symbol			
Catechol	HPLC	0.05	mg/kg	WN	<0.05	<0.05	<0.05
Cresols	HPLC	0.05	mg/kg	WM	<0.05	<0.05	<0.05
Naphthols	HPLC	0.05	mg/kg	WN	<0.05	<0.05	<0.05
Phenol	HPLC	0.1	mg/kg	WM	<0.1	<0.1	<0.1
Resorcinol	HPLC	0.05	mg/kg	WM	<0.05	<0.05	<0.05
Total Phenols	HPLC	0.1	mg/kg	WN	<0.1	<0.1	<0.1
Trimethyl phenol	HPLC	0.05	mg/kg	WM	<0.05	<0.05	<0.05
Xylenols	HPLC	0.05	mg/kg	WM	<0.05	<0.05	<0.05

SAL Reference: 358175										
Project Site: Croxley Rail Link Ground Investigation Phase 1										
Customer Reference: TB7219										
Soil Analysed as Soil										
Suite E2										
SAL Reference		358175 018	358175 020	358175 022	358175 027	358175 030				
Customer Sample Reference		TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	TP127 ES1 0.2	TP129A ES1 0.2				
Test Sample		AR	AR	AR	AR	AR				
Date Sampled		16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013				
Top Depth		0.2	0.2	0.3	0.2	0.2				
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil				
Determinand	Method	LOD	Units	Symbol						
Asbestos Quantification Stage 1	PLM	0.001	%	SU	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

SAL Reference: 358175										
Project Site: Croxley Rail Link Ground Investigation Phase 1										
Customer Reference: TB7219										
Soil Analysed as Soil										
Suite E2										
SAL Reference		358175 031	358175 033	358175 035	358175 039	358175 041				
Customer Sample Reference		TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP119 ES1 0.30				
Test Sample		AR	AR	AR	AR	AR				
Date Sampled		15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	16-OCT-2013				
Top Depth		0.3	0.1	0.2	0.30	0.30				
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil				
Determinand	Method	LOD	Units	Symbol						
Asbestos Quantification Stage 1	PLM	0.001	%	SU	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

SAL Reference: 358175

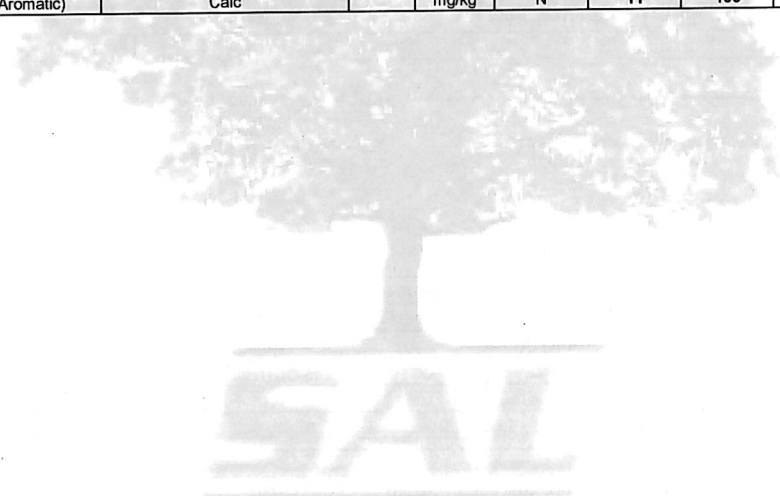
Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference	358175 002	358175 003	358175 004	358175 007	358175 008
Customer Sample Reference	TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00
Test Sample	M105	M105	M105	M105	M105
Date Sampled	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013	14-OCT-2013
Top Depth	0.30	0.30	0.80	0.30	1.00
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol					
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	GC/MS(Head Space)(MCERTS)	0.100	mg/kg	N	<0.100	<0.100	<0.100	<0.100	<0.100
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	(9) <10	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID (MCERTS)	2	mg/kg	M	<2	<2	<2	(9) <10	<2
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	2	<1	(9) <10	1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID (MCERTS)	4	mg/kg	M	<4	6	9	12	4
Total Petroleum Hydrocarbons (C35-C44 aliphatic)	GC/FID	1	mg/kg	N	1	<1	3	<10	<1
Total Petroleum Hydrocarbons (Aliphatic) total	Calc		mg/kg	N	1.0	8.0	12	12	5.0
Total Petroleum Hydrocarbons (C6 - C7 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C7-C8 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	(9) <10	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	5	<1	140	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	2	18	1	850	1
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	6	61	10	1400	9
Total Petroleum Hydrocarbons (C35-C44 aromatic)	GC/FID	1	mg/kg	N	2	12	6	305	10
Total Petroleum Hydrocarbons (Aromatic) total	Calc		mg/kg	N	10	96	17	2700	20
Total Petroleum Hydrocarbons (Aliphatic+Aromatic)	Calc		mg/kg	N	11	100	29	2700	25



SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference		358175 009	358175 011	358175 012	358175 018	358175 020			
Customer Sample Reference		TP121A ES1 0.30	TP121 ES1 0.30	CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2			
Test Sample		M105	M105	M105	M105	M105			
Date Sampled		14-OCT- 2013	10-OCT- 2013	10-OCT- 2013	16-OCT- 2013	16-OCT- 2013			
Top Depth		0.30	0.30	0.30	0.2	0.2			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol					
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	GC/MS(Head Space)(MCERTS)	0.100	mg/kg	N	<0.100	<0.100	<0.100	<0.100	<0.100
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	⁽⁹⁾ <10	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID (MCERTS)	2	mg/kg	M	<2	<2	⁽⁹⁾ <10	<2	2
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	⁽⁹⁾ <10	<1	<1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID (MCERTS)	4	mg/kg	M	<4	<4	27	5	19
Total Petroleum Hydrocarbons (C35-C44 aliphatic)	GC/FID	1	mg/kg	N	<1	<1	<10	<1	2
Total Petroleum Hydrocarbons (Aliphatic) total	Calc		mg/kg	N	N.D.	N.D.	27	5.0	23
Total Petroleum Hydrocarbons (C6 - C7 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C7-C8 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	⁽⁹⁾ <10	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	1	<1	⁽⁹⁾ <10	<1	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	8	4	⁽⁹⁾ <10	1	8
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	26	16	42	5	29
Total Petroleum Hydrocarbons (C35-C44 aromatic)	GC/FID	1	mg/kg	N	8	7	35	4	5
Total Petroleum Hydrocarbons (Aromatic) total	Calc		mg/kg	N	43	27	77	10	42
Total Petroleum Hydrocarbons (Aliphatic+Aromatic)	Calc		mg/kg	N	43	27	100	15	65



SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference					358175 022	358175 025	358175 026	358175 027	358175 030
Customer Sample Reference					CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2	TP129A ES1 0.2
Test Sample					M105	M105	M105	M105	M105
Date Sampled					15-OCT- 2013	15-OCT- 2013	15-OCT- 2013	15-OCT- 2013	16-OCT- 2013
Top Depth					0.3	2.5	3.5	0.2	0.2
Type					Sandy Soil	Clay	Clay	Sandy Soil	Sandy Soil
Determinand	Method	LOD	Units	Symbol					
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	GC/MS(Head Space)(MCERTS)	0.100	mg/kg	N	<0.100	<0.100	<0.100	<0.100	<0.100
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID (MCERTS)	2	mg/kg	M	<2	<2	<2	9	<2
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	2	5	<1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID (MCERTS)	4	mg/kg	M	<4	<4	48	26	<4
Total Petroleum Hydrocarbons (C35-C44 aliphatic)	GC/FID	1	mg/kg	N	<1	<1	6	1	<1
Total Petroleum Hydrocarbons (Aliphatic) total	Calc		mg/kg	N	N.D.	N.D.	56	41	N.D.
Total Petroleum Hydrocarbons (C6 - C7 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C7-C8 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	2	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	16	<1
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	2	<1	3	54	<1
Total Petroleum Hydrocarbons (C35-C44 aromatic)	GC/FID	1	mg/kg	N	2	2	1	6	<1
Total Petroleum Hydrocarbons (Aromatic) total	Calc		mg/kg	N	4.0	2.0	4.0	78	N.D.
Total Petroleum Hydrocarbons (Aliphatic+Aromatic)	Calc		mg/kg	N	4.0	2.0	60	120	N.D.



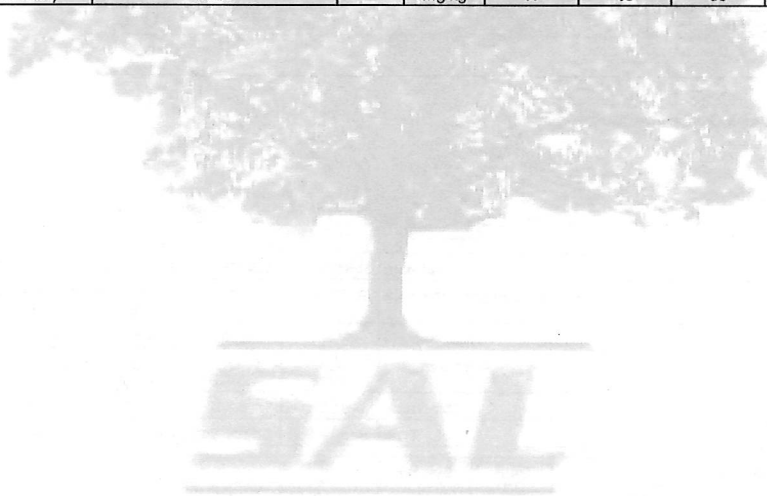
SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference		358175 031	358175 033	358175 035	358175 039	358175 040			
Customer Sample Reference		TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40			
Test Sample		M105	M105	M105	M105	M105			
Date Sampled		15-OCT- 2013	15-OCT- 2013	17-OCT- 2013	15-OCT- 2013	15-OCT- 2013			
Top Depth		0.3	0.1	0.2	0.30	0.40			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol					
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	GC/MS(Head Space)(MCERTS)	0.100	mg/kg	N	<0.100	<0.100	<0.100	<0.100	<0.100
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID (MCERTS)	2	mg/kg	M	<2	3	<2	<2	<2
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	2	<1	<1	<1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID (MCERTS)	4	mg/kg	M	6	12	<4	<4	5
Total Petroleum Hydrocarbons (C35-C44 aliphatic)	GC/FID	1	mg/kg	N	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (Aliphatic) total	Calc		mg/kg	N	6.0	17	N.D.	N.D.	5.0
Total Petroleum Hydrocarbons (C6 - C7 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C7-C8 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10	<0.10	<0.10	<0.10	<0.10
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1	<1	<1	<1	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	1	2	2	3	4
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	6	11	6	6	10
Total Petroleum Hydrocarbons (C35-C44 aromatic)	GC/FID	1	mg/kg	N	2	3	1	<1	<1
Total Petroleum Hydrocarbons (Aromatic) total	Calc		mg/kg	N	9.0	16	9.0	9.0	14
Total Petroleum Hydrocarbons (Aliphatic+Aromatic)	Calc		mg/kg	N	15	33	9.0	9.0	19



SAL Reference: 358175					
Project Site: Croxley Rail Link Ground Investigation Phase 1					
Customer Reference: TB7219					
Soil Analysed as Soil					
TPH UKCWG					
SAL Reference					358175 041
Customer Sample Reference					CP119 ES1 0.30
Test Sample					M105
Date Sampled					16-OCT- 2013
Top Depth					0.30
Type					Sandy Soil
Determinand	Method	LOD	Units	Symbol	
Total Petroleum Hydrocarbons (C5 - C6 aliphatic)	GC/MS(Head Space)(MCERTS)	0.100	mg/kg	N	<0.100
Total Petroleum Hydrocarbons (C6-C8 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10
Total Petroleum Hydrocarbons (C8-C10 aliphatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10
Total Petroleum Hydrocarbons (C10-C12 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C12-C16 aliphatic)	GC/FID (MCERTS)	2	mg/kg	M	<2
Total Petroleum Hydrocarbons (C16-C21 aliphatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C21-C35 aliphatic)	GC/FID (MCERTS)	4	mg/kg	M	<4
Total Petroleum Hydrocarbons (C35-C44 aliphatic)	GC/FID	1	mg/kg	N	<1
Total Petroleum Hydrocarbons (Aliphatic) total	Calc		mg/kg	N	N.D.
Total Petroleum Hydrocarbons (C6 - C7 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10
Total Petroleum Hydrocarbons (C7-C8 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10
Total Petroleum Hydrocarbons (C8-C10 aromatic)	GC/MS(Head Space)(MCERTS)	0.10	mg/kg	N	<0.10
Total Petroleum Hydrocarbons (C10-C12 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C12-C16 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C16-C21 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C21-C35 aromatic)	GC/FID (MCERTS)	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C35-C44 aromatic)	GC/FID	1	mg/kg	N	<1
Total Petroleum Hydrocarbons (Aromatic) total	Calc		mg/kg	N	N.D.
Total Petroleum Hydrocarbons (Aliphatic+Aromatic)	Calc		mg/kg	N	N.D.

SAL Reference: 358175												
Project Site: Croxley Rail Link Ground Investigation Phase 1												
Customer Reference: TB7219												
Soil Analysed as Soil												
BTEX, MTBE												
SAL Reference		358175 002	358175 003	358175 004	358175 007	358175 008	358175 009	358175 011				
Customer Sample Reference		TP123 ES1 0.30	TP122 ES1 0.30	TP122 ES3 0.80	BH102 ES1 0.30	BH104 ES4 1.00	TP121A ES1 0.30	TP121 ES1 0.30				
Test Sample		M105	M105	M105	M105	M105	M105	M105				
Date Sampled		14-OCT- 2013	14-OCT- 2013	14-OCT- 2013	14-OCT- 2013	14-OCT- 2013	14-OCT- 2013	10-OCT- 2013				
Top Depth		0.30	0.30	0.80	0.30	1.00	0.30	0.30				
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil				
Determinand	Method	LOD	Units	Symbol								
Benzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 358175											
Project Site: Croxley Rail Link Ground Investigation Phase 1											
Customer Reference: TB7219											
Soil		Analysed as Soil									
BTEX, MTBE											
SAL Reference		358175 012	358175 018	358175 020	358175 022	358175 025	358175 026	358175 027			
Customer Sample Reference		CP109 ES1 0.30	TP132 ES1 0.2	TP131A ES1 0.2	CP113A ES1 0.3	BH102 ES10 2.5	BH102 ES14 3.5	TP127 ES1 0.2			
Test Sample		M105	M105	M105	M105	M105	M105	M105			
Date Sampled		10-OCT-2013	16-OCT-2013	16-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	0.2	0.2	0.3	2.5	3.5	0.2			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Benzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Toluene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 358175											
Project Site: Croxley Rail Link Ground Investigation Phase 1											
Customer Reference: TB7219											
Soil		Analysed as Soil									
BTEX, MTBE											
SAL Reference		358175 030	358175 031	358175 033	358175 035	358175 039	358175 040	358175 041			
Customer Sample Reference		TP129A ES1 0.2	TP125 ES1 0.3	TP126 ES1 0.1	TP139 ES1 0.2	BH122 ES1 0.30	CP120 ES1 0.40	CP119 ES1 0.30			
Test Sample		M105	M105	M105	M105	M105	M105	M105			
Date Sampled		16-OCT-2013	15-OCT-2013	15-OCT-2013	17-OCT-2013	15-OCT-2013	15-OCT-2013	16-OCT-2013			
Top Depth		0.2	0.3	0.1	0.2	0.30	0.40	0.30			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	LOD	Units	Symbol							
Benzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Toluene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 358175											
Project Site: Croxley Rail Link Ground Investigation Phase 1											
Customer Reference: TB7219											
Soil		Analysed as Soil									
Suite E7											
SAL Reference		358175 007	358175 025	358175 026							
Customer Sample Reference		BH102 ES1 0.30	BH102 ES10 2.5	BH102 ES14 3.5							
Test Sample		M105	M105	M105							
Date Sampled		14-OCT-2013	15-OCT-2013	15-OCT-2013							
Top Depth		0.30	2.5	3.5							
Type		Sandy Soil	Clay	Clay							
Determinand	Method	LOD	Units	Symbol							
Total Petroleum Hydrocarbons (C5-C10)	GC/MS (Headspace)	0.10	mg/kg	N	<0.10	<0.10	<0.10				
Total Petroleum Hydrocarbons (C8-C10)	GC/MS (Headspace)	0.10	mg/kg	N	<0.10	<0.10	<0.10				
Total Petroleum Hydrocarbons (C10-C26)	GC/FID	1	mg/kg	U	2100	<1	<1				
Total Petroleum Hydrocarbons (C10-C35)	GC/FID	1	mg/kg	M	2800	<1	<1				
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	100	<1	<1				
Total Petroleum Hydrocarbons (C10 - C40 Mineral Oil:WAC)	GC/FID	1	mg/kg	N	2900	<1	<1				
Total Petroleum Hydrocarbons (C8 - C40)	Calc	1	mg/kg	N	2700	2	60				

SAL Reference: 358175					
Project Site: Croxley Rail Link Ground Investigation Phase 1					
Customer Reference: TB7219					
Soil Analysed as Soil					
PCB EC7					
SAL Reference					358175 025
Customer Sample Reference					BH102 ES10 2.5
Test Sample					M105
Date Sampled					15-OCT-2013
Top Depth					2.5
Type					Clay
Determinand	Method	LOD	Units	Symbol	
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.05	µg/kg	M	<0.05
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.05	µg/kg	M	<0.05



SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil
Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference		358175 007	358175 008	358175 025	358175 026			
Customer Sample Reference		BH102 ES1 0.30	BH104 ES4 1.00	BH102 ES10 2.5	BH102 ES14 3.5			
Test Sample		M105	M105	M105	M105			
Date Sampled		14-OCT-2013	14-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	1.00	2.5	3.5			
Type		Sandy Soil	Clay	Clay	Clay			
Determinand	Method	LOD	Units	Symbol				
1,2,4-Trichlorobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	17	<0.1	<0.1	<0.1
2-Nitroaniline	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	82	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	1.0	<0.1	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	69	<0.1	<0.1	<0.1
Azobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	55	0.3	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	30	0.2	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	53	0.3	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	17	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	GC/MS(MCERTS)	0.1	mg/kg	M	0.9	<0.1	<0.1	<0.1
Butyl benzylphthalate	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Carbazole	GC/MS(MCERTS)	0.1	mg/kg	U	31	<0.1	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	50	0.3	<0.1	<0.1
Di-n-butylphthalate	GC/MS(MCERTS)	0.1	mg/kg	M	0.4	<0.1	<0.1	<0.1
Di-n-octylphthalate	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	4.6	<0.1	<0.1	<0.1
Dibenzofuran	GC/MS(MCERTS)	0.1	mg/kg	M	45	<0.1	<0.1	<0.1
Diethyl phthalate	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	130	0.7	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	60	<0.1	<0.1	<0.1
Hexachlorobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	16	<0.1	<0.1	<0.1
Isophorone	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	25	<0.1	<0.1	<0.1
Nitrobenzene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1	<0.1	<0.1

SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	358175 007	358175 008	358175 025	358175 026
Customer Sample Reference	BH102 ES1 0.30	BH104 ES4 1.00	BH102 ES10 2.5	BH102 ES14 3.5
Test Sample	M105	M105	M105	M105
Date Sampled	14-OCT-2013	14-OCT-2013	15-OCT-2013	15-OCT-2013
Top Depth	0.30	1.00	2.5	3.5
Type	Sandy Soil	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol				
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	170	0.2	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	120	0.6	<0.1	<0.1



SAL Reference: 358175

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil

Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference		358175 007	358175 008	358175 025	358175 026			
Customer Sample Reference		BH102 ES1 0.30	BH104 ES4 1.00	BH102 ES10 2.5	BH102 ES14 3.5			
Test Sample		M105	M105	M105	M105			
Date Sampled		14-OCT-2013	14-OCT-2013	15-OCT-2013	15-OCT-2013			
Top Depth		0.30	1.00	2.5	3.5			
Type		Sandy Soil	Clay	Clay	Clay			
Determinand	Method	LOD	Units	Symbol				
1,1,1,2-Tetrachloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,1,1-Trichloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,1,2,2-Tetrachloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
1,1,2-Trichloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,1-Dichloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,1-Dichloroethylene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,1-Dichloropropene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,2,3-Trichloropropane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
1,2,4-Trimethylbenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,2-dibromoethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,2-Dichlorobenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,2-Dichloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,2-Dichloropropane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,3,5-Trimethylbenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,3-Dichlorobenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,3-Dichloropropane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
1,4-Dichlorobenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
2,2-Dichloropropane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
2-Chlorotoluene	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
4-Chlorotoluene	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
Benzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10
Bromobenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Bromochloromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Bromodichloromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Bromoform	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Bromomethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
Carbon tetrachloride	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Chlorobenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Chlorodibromomethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Chloroethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Chloroform	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Chloromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
Cis-1,2-Dichloroethylene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Cis-1,3-Dichloropropene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Dibromomethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Dichlorodifluoromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Dichloromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
EthylBenzene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10
Isopropyl benzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10
n-Propylbenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10
p-Isopropyltoluene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Sec-Butylbenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Styrene	GC/MS(Head Space)(MCERTS)	50	µg/kg	U	<50	<50	<50	<50
Tert-Butylbenzene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Tetrachloroethylene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Toluene	GC/MS(Head Space)(MCERTS)	10	µg/kg	M	<10	<10	<10	<10
Trans-1,2-Dichloroethylene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Trans-1,3-Dichloropropene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Trichloroethylene	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Trichlorofluoromethane	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50
Vinyl chloride monomer	GC/MS(Head Space)(MCERTS)	50	µg/kg	M	<50	<50	<50	<50

SAL Reference: 387874										
Project Site: Croxley										
Customer Reference: TB7219										
Soil Miscellaneous										
Analysed as Soil										
SAL Reference					387874 001	387874 002	387874 003	387874 004	387874 005	387874 006
Customer Sample Reference					BH102 CD034 @ 15.100-15.200m	BH102 CD052 @ 40.600-40.680m	BH102 CD055 @ 44.000-44.100m	BH103 CD034 @ 16.050-16.150m	BH103 CD041 @ 23.800-23.900m	BH104 CD050 30.850-30.950m
Date Sampled					04-APR-2014	04-APR-2014	04-APR-2014	04-APR-2014	04-APR-2014	04-APR-2014
Determinand	Method	Test Sample	LOD	Units						
(Water soluble) Cl-	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(Water soluble) Mg	T251	A40	1	mg/l	1	1	<1	1	<1	1
(Water soluble) NO3	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.03	0.01	0.01	0.01	0.01	0.01
pH (2.5:1 extract)	T274	A40			8.9	8.4	9.0	9.3	9.2	9.2
Retained on 2mm	T2	A40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 387874										
Project Site: Croxley										
Customer Reference: TB7219										
Soil Miscellaneous										
Analysed as Soil										
SAL Reference					387874 007	387874 008	387874 009	387874 010	387874 011	
Customer Sample Reference					BH115 CD035 @ 14.500-14.600m	BH115 CD051 @ 34.400-34.500m	BH119A CD028 @ 14.500- 14.600m	BH119A CD034 @ 23.000- 23.100m	BH129 CD040 @ 24.950-25.050m	
Date Sampled					04-APR-2014	04-APR-2014	04-APR-2014	04-APR-2014	04-APR-2014	
Determinand	Method	Test Sample	LOD	Units						
(Water soluble) Cl-	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01	
(Water soluble) Mg	T251	A40	1	mg/l	1	1	1	1	1	
(Water soluble) NO3	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01	
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.02	0.01	0.03	0.02	0.02	
pH (2.5:1 extract)	T274	A40			9.2	9.3	9.1	9.2	9.1	
Retained on 2mm	T2	A40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1	

Index to symbols used in 387874-2

Value	Description
A40	Assisted dried < 40C
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T2	Grav
T274	Probe (BS 3882)
T251	2:1 Extraction/ICP/OES
T710	2:1 Extraction / Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
(Water soluble) Cl-	T710	A40	0.01	g/l	N	001-011
(Water soluble) Mg	T251	A40	1	mg/l	N	001-011
(Water soluble) NO3	T710	A40	0.01	g/l	N	001-011
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	U	001-011
pH (2.5:1 extract)	T274	A40			N	001-011
Retained on 2mm	T2	A40	0.1	%	N	001-011

SAL Reference: 390453
 Project Site: Croxley Rail Link, Stage 1
 Customer Reference: TB7219

Soil
 Miscellaneous Analysed as Soil

SAL Reference					390453 001	390453 002	390453 003	390453 004	390453 006
Customer Sample Reference					BH108 C49 @ 23.300-23.450m	BH119A C45 @ 40.200-40.300m	BH119A C40 @ 32.350-32.500m	BH115 CD41 @ 23.700-23.800m	BH102 C38 @ 20.900-21.100m
Date Sampled					17-APR-2014	17-APR-2014	17-APR-2014	17-APR-2014	17-APR-2014
Determinand	Method	Test Sample	LOD	Units					
(Water soluble) Cl-	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01
(Water soluble) Mg	T251	A40	1	mg/l	1	1	1	1	1
(Water soluble) NO3	T710	A40	0.01	g/l	<0.01	<0.01	<0.01	<0.01	<0.01
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.01	0.02	0.02	0.01	0.01
pH (2.5:1 extract)	T274	A40			9.0	9.0	9.0	8.8	9.0
					9.0	9.0	9.0	8.8	9.0
Retained on 2mm	T2	A40	0.1	%	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 390453
 Project Site: Croxley Rail Link, Stage 1
 Customer Reference: TB7219

Soil
 Miscellaneous Analysed as Soil

SAL Reference					390453 007	390453 008
Customer Sample Reference					BH108 C55 @ 32.600-32.750m	BH108 C60 @ 38.550-38.670m
Date Sampled					17-APR-2014	17-APR-2014
Determinand	Method	Test Sample	LOD	Units		
(Water soluble) Cl-	T710	A40	0.01	g/l	<0.01	<0.01
(Water soluble) Mg	T251	A40	1	mg/l	1	1
(Water soluble) NO3	T710	A40	0.01	g/l	<0.01	<0.01
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	0.01	<0.01
pH (2.5:1 extract)	T274	A40			9.1	9.0
					9.1	9.0
Retained on 2mm	T2	A40	0.1	%	<0.1	<0.1

Index to symbols used in 390453-1

Value	Description
A40	Assisted dried < 40C
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T274	Probe (BS 3882)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T251	2:1 Extraction/ICP/OES
T2	Grav
T710	2:1 Extraction / Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
(Water soluble) Cl-	T710	A40	0.01	g/l	N	001-004,006-008
(Water soluble) Mg	T251	A40	1	mg/l	N	001-004,006-008
(Water soluble) NO3	T710	A40	0.01	g/l	N	001-004,006-008
(Water Soluble) SO4 expressed as SO4	T242	A40	0.01	g/l	U	001-004,006-008
pH (2.5:1 extract)	T274	A40			N	001-004,006-008
Retained on 2mm	T2	A40	0.1	%	N	001-004,006-008

Waste Acceptance Criteria

Customer Sample Reference : BH102 ES10 2.5

SAL Sample Reference : 358175 025

Project Site : Croxley Rail Link Ground Investigation Phase 1

Customer Reference : TB7219

Test Portion Mass (g) : 175

Top Depth : 2.5

Date Sampled : 15-OCT-2013

Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	Technique	LOD	Units	Symbol				
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Moisture	Grav	0.1	%	N	17			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	Technique	LOD	Units	Symbol				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.011	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	26	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.013	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	100	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.4	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.030	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	160	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	840	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.071	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as amended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	(9) <10	(9) <10	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	<4	21	21	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	N.D.	21	21	1.0	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	(9) <10	(9) <10	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	2	2	<1	(9) <10	18	2	<1	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	14	6	<1	57	69	6	1	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	1	2	<1	13	15	1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	17	10	N.D.	70	100	9.0	1.0	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	17	10	N.D.	91	120	10	1.0	N.D.

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil Analysed as Soil
TPH UKCWG

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.00	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	<4	<4	<4	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	3	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	2	1	1	<1	<1	<1	8	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	2.0	1.0	1.0	N.D.	N.D.	N.D.	11	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	2.0	1.0	1.0	N.D.	N.D.	N.D.	11	N.D.

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil
BTEX, MTBE

Analysed as Soil

SAL Reference	365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070				
Customer Sample Reference	TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30				
Date Sampled	02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013				
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil				
Determinand	Method	Test Sample	LOD	Units							
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 365668

Project Site: Croxley Rail Link Ground Investigation Phase 1

Customer Reference: TB7219

Soil
TPH UKCWG

Analysed as Soil

SAL Reference	365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018				
Customer Sample Reference	BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00				
Date Sampled	05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013				
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil				
Determinand	Method	Test Sample	LOD	Units								
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	⁽⁹⁾ <10	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	⁽⁹⁾ <10	<2	<2	<2	<2	<2	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	⁽⁹⁾ <10	2	<1	<1	<1	<1	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	19	6	<4	<4	<4	<4	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	⁽⁹⁾ <10	<1	<1	<1	<1	<1	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	19	8.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	⁽⁹⁾ <10	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	⁽⁹⁾ <10	1	<1	<1	<1	<1	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	32	22	2	<1	<1	<1	<1	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	140	48	9	1	<1	<1	<1	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	17	6	2	<1	<1	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	190	77	13	1.0	N.D.	N.D.	N.D.	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	210	85	13	1.0	N.D.	N.D.	N.D.	N.D.

<p>SAL Reference: 365668 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219</p>												
<p>Soil Analysed as Soil BTEX, MTBE</p>												
SAL Reference		365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018			
Customer Sample Reference		BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00			
Date Sampled		05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

<p>SAL Reference: 365668 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219</p>												
<p>Soil Analysed as Soil BTEX, MTBE</p>												
SAL Reference		365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028			
Customer Sample Reference		TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3			
Date Sampled		07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013			
Type		Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil			
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

<p>SAL Reference: 365668 Project Site: Croxley Rail Link Ground Investigation Phase 1 Customer Reference: TB7219</p>												
<p>Soil Analysed as Soil BTEX, MTBE</p>												
SAL Reference		365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053			
Customer Sample Reference		CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.00	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30			
Date Sampled		28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013			
Type		Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil			
Determinand	Method	Test Sample	LOD	Units								
Benzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
M/P Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
O Xylene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	T209	M105	10	µg/kg	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil Analysed as Soil
 PAH US EPA 16 (B and K split)

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.00	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	0.2	<0.1	0.2	<0.1	1.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	0.1	<0.1	0.2	<0.1	1.0	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	0.1	<0.1	0.2	<0.1	1.0	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	0.3	<0.1	0.4	<0.1	3.8	<0.1

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil Analysed as Soil
 PAH US EPA 16 (B and K split)

SAL Reference					365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
Customer Sample Reference					TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
Date Sampled					02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units							
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.2
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1	0.3	0.7
Pyrene	T207	M105	0.1	mg/kg	<0.1	0.5	<0.1	<0.1	<0.1	0.3	0.6
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.3
Chrysene	T207	M105	0.1	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.3
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.3
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.2
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
PAH(total)	T207	M105	0.1	mg/kg	<0.1	1.8	<0.1	<0.1	<0.1	0.8	3.2

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil
 PAH US EPA 16 (B and K split)

Analysed as Soil

					SAL Reference	365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
					Customer Sample Reference	BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
					Date Sampled	05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
					Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units									
Naphthalene	T207	M105	0.1	mg/kg	0.2	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	0.1	1.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	0.1	2.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	1.8	33	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	0.8	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	5.5	48	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	5.2	40	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	3.3	16	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	3.1	16	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	4.1	14	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	2.2	7.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	3.4	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	2.1	5.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	0.6	1.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	2.4	6.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	35	220	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil
 PAH US EPA 16 (B and K split)

Analysed as Soil

					SAL Reference	365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
					Customer Sample Reference	TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
					Date Sampled	07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
					Type	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units									
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	0.3	<0.1	0.3	0.7	0.2	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	0.2	0.7	0.1	0.7	1.6	0.5	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	0.3	0.6	0.1	0.6	1.4	0.5	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.7	0.2	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.8	0.3	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	0.4	0.2	<0.1	0.6	0.9	0.3	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	0.2	0.1	<0.1	0.3	0.6	0.2	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	0.3	0.2	<0.1	0.5	0.7	0.2	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	0.2	0.1	<0.1	0.3	0.5	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	0.2	0.2	<0.1	0.4	0.5	0.2	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	2.2	2.8	0.2	4.6	8.9	2.7	<0.1	<0.1	<0.1

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil
 Suite E1

Analysed as Soil

SAL Reference					365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference					CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.00	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled					28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	<1	1	<1	2	2	1	6	<1
Arsenic	T6	M40	2	mg/kg	8	14	7	14	10	11	24	8
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	27	26	30	30	15	14	37	11
Copper	T6	M40	1	mg/kg	12	24	11	18	28	10	81	8
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	21	52	25	18	51	12	75	10
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	14	21	20	24	16	15	44	13
pH	T7	AR			7.4	8.2	8.1	7.5	7.3	8.3	8.0	8.0
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	6.3	0.9	1.0	0.4	32	1.4	11	1.3
Vanadium	T6	M40	1	mg/kg	28	38	27	38	25	25	49	19
Zinc	T6	M40	1	mg/kg	28	50	53	48	200	38	150	31

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil
 Suite E1

Analysed as Soil

SAL Reference					365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
Customer Sample Reference					TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
Date Sampled					02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units							
Antimony	T6	M40	1	mg/kg	1	6	5	2	2	4	<1
Arsenic	T6	M40	2	mg/kg	11	27	18	14	12	15	4
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	19	41	61	29	29	28	6
Copper	T6	M40	1	mg/kg	12	64	36	16	17	47	5
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	17	55	32	23	25	58	11
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	17	45	43	22	30	28	7
pH	T7	AR			8.1	8.1	8.3	7.9	8.1	8.2	8.1
Phenols(Mono)	T546	AR	1	mg/kg	<1	1	1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	0.7	5.4	1.6	0.9	0.8	4.0	4.1
Vanadium	T6	M40	1	mg/kg	32	57	62	47	42	44	10
Zinc	T6	M40	1	mg/kg	48	120	78	54	55	130	28

SAL Reference: 365668
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 Customer Reference: TB7219

Soil
 Suite E1
 Analysed as Soil

SAL Reference					365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference					BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled					05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	4	3	4	3	2	2	2	2
Arsenic	T6	M40	2	mg/kg	25	11	11	17	10	9	12	10
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	<2	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	28	20	21	36	24	22	29	22
Copper	T6	M40	1	mg/kg	34	31	17	22	30	36	18	13
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	140	300	120	85	80	86	20	17
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	28	19	18	27	18	18	33	19
pH	T7	AR			7.3	7.7	7.8	7.2	7.1	7.1	7.0	7.3
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	1.8	2.8	1.1	0.4	1.1	1.1	0.2	0.1
Vanadium	T6	M40	1	mg/kg	47	27	33	39	32	31	37	31
Zinc	T6	M40	1	mg/kg	140	620	100	58	73	71	66	38

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 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil
 Suite E1
 Analysed as Soil

SAL Reference					365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference					TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled					07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type					Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Determinand	Method	Test Sample	LOD	Units								
Antimony	T6	M40	1	mg/kg	6	3	2	8	5	4	2	2
Arsenic	T6	M40	2	mg/kg	25	12	10	27	30	11	8	13
Beryllium	T6	M40	2	mg/kg	<2	<2	<2	<2	3	<2	<2	<2
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	34	28	28	35	32	19	20	42
Copper	T6	M40	1	mg/kg	190	30	14	82	110	59	20	20
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Lead	T6	M40	1	mg/kg	180	37	20	1100	460	260	60	17
Mercury	T6	M40	1	mg/kg	<1	<1	<1	1	2	<1	<1	<1
Nickel	T6	M40	1	mg/kg	35	23	17	32	35	19	16	20
pH	T7	AR			8.0	8.0	7.8	7.7	7.8	7.4	7.9	8.0
Phenols(Mono)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Total Organic Carbon	T21	M40	0.1	%	5.5	0.8	0.5	5.5	6.8	5.7	1.0	0.3
Vanadium	T6	M40	1	mg/kg	49	38	32	57	47	28	27	41
Zinc	T6	M40	1	mg/kg	100	57	46	260	270	180	71	58

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil Analysed as Soil
 MCERTS Preparation

SAL Reference	365668 003	365668 006	365668 009	365668 010	365668 013	365668 015	365668 016	365668 018
Customer Sample Reference	BH111 ES1 0.40	HP104 ES2 0.50	HP105 ES5 1.50	TP160 ES1 0.30	TP158 ES4 0.40	TP157 ES4 0.80	TP157 ES7 1.40	TP159 ES3 1.00
Date Sampled	05-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013	07-NOV-2013	07-NOV-2013	07-NOV-2013	08-NOV-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	9.6	17	15	3.6	9.7	12	6.5	8.3
Moisture @ 105 C	T162	AR	0.1	%	8.7	14	17	5.7	14	13	4.5	10

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 Project Site: Croxley Rail Link Ground Investigation Phase 1
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Soil Analysed as Soil
 MCERTS Preparation

SAL Reference	365668 019	365668 022	365668 023	365668 024	365668 025	365668 026	365668 027	365668 028
Customer Sample Reference	TP156 ES2 0.40	BH115 ES1 0.30	BH115 ES3 1.10	WS118A ES1 0.30	WS118A ES3 1.00	RO101 ES2 0.4	RO101 ES4 0.8	CP102 ES1 0.3
Date Sampled	07-NOV-2013	06-NOV-2013	06-NOV-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	28-NOV-2013
Type	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	5.0	9.4	6.1	12	11	17	10	6.0
Moisture @ 105 C	T162	AR	0.1	%	5.9	14	2.6	14	18	26	11	4.6

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Soil Analysed as Soil
 MCERTS Preparation

SAL Reference	365668 029	365668 031	365668 033	365668 036	365668 042	365668 044	365668 051	365668 053
Customer Sample Reference	CP102 ES2 1.50	TP147 ES7 1.50	BH103 ES4 0.60	BH126 ES1 0.30	TP102 ES1 0.00	WS106 ES4 1.20	TP101 ES2 0.30	TP168 ES2 0.30
Date Sampled	28-NOV-2013	29-OCT-2013	20-NOV-2013	19-NOV-2013	29-OCT-2013	30-OCT-2013	02-DEC-2013	02-DEC-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units								
Moisture	T277	AR	0.1	%	20	8.1	6.5	3.2	75	15	11	16
Moisture @ 105 C	T162	AR	0.1	%	24	11	5.9	2.7	62	18	11	11

SAL Reference: 365668
 Project Site: Croxley Rail Link Ground Investigation Phase 1
 Customer Reference: TB7219

Soil Analysed as Soil
 MCERTS Preparation

SAL Reference	365668 058	365668 059	365668 062	365668 064	365668 065	365668 066	365668 070
Customer Sample Reference	TP169 ES2 0.30	WS101 ES2 0.50	WS103 ES4 0.80	TR102A ES3 1.0	TP170 ES1 0.60	TP172 ES1 0.15	RP102 ES1 0.30
Date Sampled	02-DEC-2013	28-NOV-2013	27-NOV-2013	27-NOV-2013	27-NOV-2013	25-NOV-2013	18-NOV-2013
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil

Determinand	Method	Test Sample	LOD	Units							
Moisture	T277	AR	0.1	%	10	7.1	6.1	9.3	6.0	13	15
Moisture @ 105 C	T162	AR	0.1	%	12	11	4.0	5.7	11	11	11



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Report Number: Second supplement to 365668-1

Date of Report: 01-Apr-2014

Customer: Soil Engineering Geoservices Limited
Foundation Court
Watchmoor Park
Camberley
Surrey
GU15 3RG

Customer Contact: Ms Samantha Finch

Customer Job Reference: TB7219

Customer Site Reference: Croxley Rail Link Ground Investigation Phase 1

Date Job Received at SAL: 14-Nov-2013

Date Analysis Started: 11-Dec-2013

Date Analysis Completed: 16-Dec-2013

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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22



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