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QTS Environmental Report No: 15-35897

Site Reference:	76 Fleet Road
Project / Job Ref:	CGL5839
Order No:	5202
Sample Receipt Date:	28/09/2015
Sample Scheduled Date:	28/09/2015
Report Issue Number:	1
Reporting Date:	02/10/2015

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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Soil Analysis Certificate								
QTS Environmental Report No: 15-35897	Date Sampled	15/09/15	15/09/15	15/09/15	15/09/15	15/09/15
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: 76 Fleet Road	TP / BH No	66594	66595	66597	66598	66600
Project / Job Ref: CGL5839	Additional Refs	BH1	BH1	BH1	BH2	BH2
Order No: 5202	Depth (m)	1.00	2.00	3.50	2.00	4.50
Reporting Date: 02/10/2015	QTSE Sample No	169283	169284	169285	169286	169287

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	7.7	7.9	8.0	7.8	7.6
Total Sulphate as SO_4	mg/kg	< 200	NONE	11240	2268	1051	983	12150
Total Sulphate as SO_4	%	< 0.02	NONE	1.12	0.23	0.11	0.10	1.22
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	1580	1140	656	283	2630
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	1.58	1.14	0.66	0.28	2.63
Total Sulphur	%	< 0.02	NONE	0.39	0.10	0.04	0.07	0.63
Ammonium as NH_4	mg/kg	< 0.5	NONE	12	6.1	9	25.4	9.2
Ammonium as NH_4	mg/l	< 0.05	NONE	1.20	0.61	0.90	2.54	0.92
W/S Chloride (2:1)	mg/kg	< 1	MCERTS	263	60	33	15	44
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS	132	30.1	16.4	7.3	22
Water Soluble Nitrate (2:1) as NO_3	mg/kg	< 3	MCERTS	1320	173	24	7	< 3
Water Soluble Nitrate (2:1) as NO_3	mg/l	< 1.5	MCERTS	660	86.4	12.2	3.5	< 1.5
W/S Magnesium	mg/l	< 0.1	NONE	27	17	29	9.2	130

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Subcontracted analysis $^{(S)}$

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Soil Analysis Certificate							
QTS Environmental Report No: 15-35897	Date Sampled	15/09/15					
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied					
Site Reference: 76 Fleet Road	TP / BH No	66602					
Project / Job Ref: CGL5839	Additional Refs	BH2					
Order No: 5202	Depth (m)	8.00					
Reporting Date: 02/10/2015	QTSE Sample No	169288					

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	7.8				
Total Sulphate as SO_4	mg/kg	< 200	NONE	3037				
Total Sulphate as SO_4	%	< 0.02	NONE	0.30				
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	1410				
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	1.41				
Total Sulphur	%	< 0.02	NONE	0.34				
Ammonium as NH_4	mg/kg	< 0.5	NONE	16.1				
Ammonium as NH_4	mg/l	< 0.05	NONE	1.61				
W/S Chloride (2:1)	mg/kg	< 1	MCERTS	42				
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS	21				
Water Soluble Nitrate (2:1) as NO_3	mg/kg	< 3	MCERTS	< 3				
Water Soluble Nitrate (2:1) as NO_3	mg/l	< 1.5	MCERTS	< 1.5				
W/S Magnesium	mg/l	< 0.1	NONE	63				

Analytical results are expressed on a dry weight basis where samples are dried at less than 30^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Subcontracted analysis $^{(S)}$

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Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 15-35897	
Chelmer Site Investigation Laboratories Ltd	
Site Reference: 76 Fleet Road	
Project / Job Ref: CGL5839	
Order No: 5202	
Reporting Date: 02/10/2015	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
$ 169283	66594	BH1	1.00	8.7	Brown gravelly sand with rubble
$ 169284	66595	BH1	2.00	4.7	Brown gravelly clay with stones
$ 169285	66597	BH1	3.50	20.6	Brown clay
$ 169286	66598	BH2	2.00	22.8	Grey clay
$ 169287	66600	BH2	4.50	20.6	Brown clay with crystalline material
$ 169288	66602	BH2	8.00	19.5	Brown clay with crystalline material

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

$ samples exceeded recommended holding times

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Soil Analysis Certificate - Methodology & Miscellaneous Information
QTS Environmental Report No: 15-35897
Chelmer Site Investigation Laboratories Ltd
Site Reference: 76 Fleet Road
Project / Job Ref: CGL5839
Order No: 5202
Reporting Date: 02/10/2015

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

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'Groundbreaking Services'

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Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.

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QTS Environmental Report No: 15-37876

Site Reference:	76 Fleet Road, London, NW3
Project / Job Ref:	CGL5839-C
Order No:	5552
Sample Receipt Date:	19/11/2015
Sample Scheduled Date:	19/11/2015
Report Issue Number:	1
Reporting Date:	23/11/2015

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
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On behalf of QTS Environmental Ltd

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4480

Soil Analysis Certificate							
QTS Environmental Report No: 15-37876	Date Sampled	13/11/15	13/11/15	13/11/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67835	67836	37837		
Project / Job Ref: CGL5839-C	Additional Refs	BH1	BH2	BH2		
Order No: 5552	Depth (m)	1.50	1.00	1.50		
Reporting Date: 23/11/2015	QTSE Sample No	178629	178630	178631		

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	6.6	6.8	6.9		
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2		
Total Sulphate as SO_4	mg/kg	< 200	NONE	8437	1723	1400		
Total Sulphate as SO_4	%	< 0.02	NONE	0.84	0.17	0.14		
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	1500	560	543		
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	1.50	0.56	0.54		
Elemental Sulphur	mg/kg	< 10	NONE	< 10	32	38		
Sulphide	mg/kg	< 5	NONE	< 5	53	48		
Arsenic (As)	mg/kg	< 2	MCERTS	13	14	14		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	45	32	31		
Copper (Cu)	mg/kg	< 4	MCERTS	13	26	25		
Lead (Pb)	mg/kg	< 3	MCERTS	2160	167	116		
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	15	22	21		
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3		
Zinc (Zn)	mg/kg	< 3	MCERTS	57	68	69		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Subcontracted analysis $^{(S)}$

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Soil Analysis Certificate - Speciated PAHs							
QTS Environmental Report No: 15-37876	Date Sampled	13/11/15	13/11/15	13/11/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67835	67836	37837		
Project / Job Ref: CGL5839-C	Additional Refs	BH1	BH2	BH2		
Order No: 5552	Depth (m)	1.50	1.00	1.50		
Reporting Date: 23/11/2015	QTSE Sample No	178629	178630	178631		

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

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Soil Analysis Certificate - TPH CWG Banded							
QTS Environmental Report No: 15-37876	Date Sampled	13/11/15	13/11/15	13/11/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67835	67836	37837		
Project / Job Ref: CGL5839-C	Additional Refs	BH1	BH2	BH2		
Order No: 5552	Depth (m)	1.50	1.00	1.50		
Reporting Date: 23/11/2015	QTSE Sample No	178629	178630	178631		

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C

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Soil Analysis Certificate - BTEX / MTBE							
QTS Environmental Report No: 15-37876	Date Sampled	13/11/15	13/11/15	13/11/15		
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied	None Supplied	None Supplied		
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67835	67836	37837		
Project / Job Ref: CGL5839-C	Additional Refs	BH1	BH2	BH2		
Order No: 5552	Depth (m)	1.50	1.00	1.50		
Reporting Date: 23/11/2015	QTSE Sample No	178629	178630	178631		

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C

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mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING 4480

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3

QTS Environmental Report No: 15-37876	**Date Sampled**	13/11/15	
Chelmer Site Investigation Laboratories Ltd	**Time Sampled**	None Supplied	
Site Reference: 76 Fleet Road, London, NW3	**TP / BH No**	67835	
Project / Job Ref: CGL5839-C	**Additional Refs**	BH1	
Order No: 5552	**Depth (m)**	1.50	
Reporting Date: 23/11/2015	**QTSE Sample No**	178629	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits**		
				Inert Waste Landfill	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	0.3	3%	5%	6%
Loss on Ignition	%	< 0.01	1.40	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7	100	--	--
pH[MU]	pH Units	N/a	6.6	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1	--	To be evaluated	To be evaluated

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]	0.16	0.04		0.6	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]	0.020	0.012		0.1	0.5	10	30
Nickel[U]	0.009	< 0.007		< 0.2	0.4	10	40
Lead[U]	0.033	0.012		< 0.2	0.5	10	50
Antimony[U]	0.007	< 0.005		< 0.06	0.06	0.7	5
Selenium[U]	0.024	< 0.005		< 0.1	0.1	0.5	7
Zinc[U]	0.011	< 0.005		< 0.2	4	50	200
Chloride[U]	61	5		120	800	15000	25000
Fluoride[U]	< 0.5	< 0.5		< 1	10	150	500
Sulphate[U]	1351	138		2976	**1000**	20000	50000
TDS	1270	241		3771	4000	60000	100000
Phenol Index	0.02	< 0.01		< 0.5	1	-	-
DOC	34.5	6.3		100	500	800	1000
Leach Test Information							
Sample Mass (kg)	0.18						
Dry Matter (%)	95.3						
Moisture (%)	5						
Stage 1							
Volume Eluate L2 (litres)	0.34						
Filtered Eluate VE1 (litres)	0.23						

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 discrepencies with current legislation
M Denotes MCERTS accredited test
U Denotes ISO17025 accredited test

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mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

UKAS TESTING 4480

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/3

QTS Environmental Report No: 15-37876	**Date Sampled**	13/11/15	
Chelmer Site Investigation Laboratories Ltd	**Time Sampled**	None Supplied	
Site Reference: 76 Fleet Road, London, NW3	**TP / BH No**	37838	
Project / Job Ref: CGL5839-C	**Additional Refs**	BH2	
Order No: 5552	**Depth (m)**	2.00	
Reporting Date: 23/11/2015	**QTSE Sample No**	178632	

Determinand	**Unit**	**MDL**		**Landfill Waste Acceptance Criteria Limits**		
				Inert Waste Landfill	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
TOC[MU]	%	< 0.1	1.3	3%	5%	6%
Loss on Ignition	%	< 0.01	3.30	--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05	6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1	1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10	500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7	100	--	--
pH[MU]	pH Units	N/a	7.0	--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1	--	To be evaluated	To be evaluated

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]	0.19	0.07		0.7	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]	0.008	0.005		< 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]	0.019	< 0.005		< 0.2	4	50	200
Chloride[U]	6	1		16	800	15000	25000
Fluoride[U]	< 0.5	< 0.5		< 1	10	150	500
Sulphate[U]	706	129		1735	**1000**	20000	50000
TDS	714	200		2399	4000	60000	100000
Phenol Index	< 0.01	< 0.01		< 0.5	1	-	-
DOC	15.7	3.7		46.5	500	800	1000
Leach Test Information							
Sample Mass (kg)	0.22						
Dry Matter (%)	80.4						
Moisture (%)	24.4						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.14						

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 discrepencies with current legislation
M Denotes MCERTS accredited test
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Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 15-37876	
Chelmer Site Investigation Laboratories Ltd	
Site Reference: 76 Fleet Road, London, NW3	
Project / Job Ref: CGL5839-C	
Order No: 5552	
Reporting Date: 23/11/2015	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
178629	67835	BH1	1.50	4.7	Grey sandy clay with concrete and stones
178630	67836	BH2	1.00	24	Brown sandy loam
178631	37837	BH2	1.50	23.8	Brown sandy loam
178632	37838	BH2	2.00	19.6	Brown sandy loam

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

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Soil Analysis Certificate - Methodology & Miscellaneous Information
QTS Environmental Report No: 15-37876
Chelmer Site Investigation Laboratories Ltd
Site Reference: 76 Fleet Road, London, NW3
Project / Job Ref: CGL5839-C
Order No: 5552
Reporting Date: 23/11/2015

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

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QTS Environmental Report No: 15-37936

Site Reference:	76 Fleet Road, London, NW3
Project / Job Ref:	CGL5839-C
Order No:	5552
Sample Receipt Date:	19/11/2015
Sample Scheduled Date:	20/11/2015
Report Issue Number:	1
Reporting Date:	24/11/2015

Authorised by:

Russell Jarvis
Director
On behalf of QTS Environmental Ltd

Authorised by:

Kevin Old
Director
On behalf of QTS Environmental Ltd

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Soil Analysis Certificate							
QTS Environmental Report No: 15-37936	Date Sampled	13/11/15					
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied					
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67683					
Project / Job Ref: CGL5839-C	Additional Refs	BH2					
Order No: 5552	Depth (m)	2.50					
Reporting Date: 24/11/2015	QTSE Sample No	178886					

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	8.5				
Total Cyanide	mg/kg	< 2	NONE	< 2				
Total Sulphate as SO_4	mg/kg	< 200	NONE	1644				
Total Sulphate as SO_4	%	< 0.02	NONE	0.16				
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	495				
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.50				
Elemental Sulphur	mg/kg	< 10	NONE	< 10				
Sulphide	mg/kg	< 5	NONE	< 5				
Arsenic (As)	mg/kg	< 2	MCERTS	14				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2				
Chromium (Cr)	mg/kg	< 2	MCERTS	47				
Copper (Cu)	mg/kg	< 4	MCERTS	23				
Lead (Pb)	mg/kg	< 3	MCERTS	48				
Mercury (Hg)	mg/kg	< 1	NONE	< 1				
Nickel (Ni)	mg/kg	< 3	MCERTS	33				
Selenium (Se)	mg/kg	< 3	NONE	< 3				
Zinc (Zn)	mg/kg	< 3	MCERTS	76				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C
Analysis carried out on the dried sample is corrected for the stone content
Subcontracted analysis $^{(S)}$

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Soil Analysis Certificate - Speciated PAHs							
QTS Environmental Report No: 15-37936	Date Sampled	13/11/15					
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied					
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67683					
Project / Job Ref: CGL5839-C	Additional Refs	BH2					
Order No: 5552	Depth (m)	2.50					
Reporting Date: 24/11/2015	QTSE Sample No	178886					

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C

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Soil Analysis Certificate - TPH CWG Banded							
QTS Environmental Report No: 15-37936	Date Sampled	13/11/15					
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied					
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67683					
Project / Job Ref: CGL5839-C	Additional Refs	BH2					
Order No: 5552	Depth (m)	2.50					
Reporting Date: 24/11/2015	QTSE Sample No	178886					

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C

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Soil Analysis Certificate - BTEX / MTBE							
QTS Environmental Report No: 15-37936	Date Sampled	13/11/15					
Chelmer Site Investigation Laboratories Ltd	Time Sampled	None Supplied					
Site Reference: 76 Fleet Road, London, NW3	TP / BH No	67683					
Project / Job Ref: CGL5839-C	Additional Refs	BH2					
Order No: 5552	Depth (m)	2.50					
Reporting Date: 24/11/2015	QTSE Sample No	178886					

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

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30^{O}C

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Soil Analysis Certificate - Sample Descriptions	
QTS Environmental Report No: 15-37936	
Chelmer Site Investigation Laboratories Ltd	
Site Reference: 76 Fleet Road, London, NW3	
Project / Job Ref: CGL5839-C	
Order No: 5552	
Reporting Date: 24/11/2015	

QTSE Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
178886	67683	BH2	2.50	21.1	Brown clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

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Soil Analysis Certificate - Methodology & Miscellaneous Information
QTS Environmental Report No: 15-37936
Chelmer Site Investigation Laboratories Ltd
Site Reference: 76 Fleet Road, London, NW3
Project / Job Ref: CGL5839-C
Order No: 5552
Reporting Date: 24/11/2015

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

Chelmer Consultancy Services
'Groundbreaking Services'

Contamination Test Results on Soil Samples

Location: 76 Fleet Road		Date : January 2016				Job No. : 5839			Sheet 1 of 1
Borehole No.	**Units**	BH1	BH2	BH2	BH2	*ATRISK Contaminated Land Screening Values (SSV) derived using CLEA v1.04 for 6% SOM*			
Sample No.		178629	178630	178631	178886				
Depth (m)		1.50	1.00	1.50	2.50				
Material Type		MADE GROUND	MADE GROUND	MADE GROUND	MADE GROUND	*Residential with plant uptake*	*Residential without plant uptake*	*Allotments*	*Commercial/ Industrial*
Aromatic Hydrocarbons (mg/kg)	>C5-C7	< 0.01	< 0.01	< 0.01	< 0.01	*0.33*	*0.988*	*0.07*	*95*
	>C7-C8	< 0.05	< 0.05	< 0.05	< 0.05	*610*	*2710*	*120*	*420000*
	>C8-C10	< 2	< 2	< 2	< 2	*177*	*233*	*64.5*	*64100*
	>C10-C12	< 2	< 2	< 2	< 2	*389*	*1080*	*86.4*	*68300*
	>C12-C16	< 2	< 2	< 2	< 3	*687*	*2040*	*160*	*65600*
	>C16-C21	< 3	< 3	< 3	< 3	*804*	*1330*	*288*	*28400*
	>C21-C35	< 10	< 10	< 10	< 10	*1220*	*1330*	*1550*	*28400*
Aliphatic Hydrocarbons (mg/kg)	>C5-C6	< 0.01	< 0.01	< 0.01	< 0.01	*259*	*261*	*5120*	*>1000000*
	>C6-C8	< 0.05	< 0.05	< 0.05	< 0.05	*14700*	*49400*	*16600*	*>100000*
	>C8-C10	< 2	< 2	< 2	< 2	*144*	*144*	*2130*	*170000*
	>C10-C12	< 2	< 2	< 2	< 2	*4140*	*4340*	*8870*	*171000*
	>C12-C16	< 3	< 3	< 3	< 3	*5260*	*5310*	*15900*	*171000*
	>C16-C21	< 3	< 3	< 3	< 3	*88200*	*146000*	*462000*	*>1000000*
	>C21-C35	< 10	< 10	< 10	< 10	*88200*	*146000*	*462000*	*>1000000*
Naphthalene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*8.71*	*9.22*	*23.4*	*22700*
Acenaphthylene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-
Acenaphthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*2130*	*4770*	*612*	*106000*
Fluorene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*1930*	*3100*	*725*	*72100*
Phenanthrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	-	-	-	-
Anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*18300*	*24000*	*10400*	*545000*
Fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*2160*	*3210*	*924*	*72700*
Pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*1550*	*2400*	*620*	*54500*
Benzo(a)anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*8.54*	*9.04*	*15.1*	*142*
Chrysene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*927*	*1010*	*1170*	*14300*
Benzo(b)fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*9.86*	*10.3*	*18.6*	*144*
Benzo(k)fluoranthene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*100*	*104*	*227*	*1440*
Benzo(a)pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*0.998*	*1.04*	*2.10*	*14.4*
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*9.75*	*10.3*	*16.6*	*144*
Dibenz(a,h)anthracene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*1.00*	*1.03*	*2.57*	*14.4*
Benzo(ghi)perylene	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1	*103*	*104*	*342*	*1450*
TOTAL PAH	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6				
Cyanide (Free)	mg/kg	< 2	< 2	< 2	<2	*34*	*34*	*34*	*34*
pH	unit	6.6	6.8	6.9	8.5	-	-	-	-
Copper (Total)	mg/kg	13	26	25	23	*4020*	*8370*	*1110*	*109000*
Lead (Total)	mg/kg	2160	167	116	48	*200*	*310*	*80*	*2330*
Zinc (Total)	mg/kg	57	68	69	76	*17200*	*46800*	*3990*	*>1000000*
						LQM/CIEH Generic Assessment Criteria			
Chromium (Total)	mg/kg	45	32	31	47	*3000*	*3000*	*34600*	*30400*
						CLEA Soil Guideline Values (SGV)			
Arsenic (Total)	mg/kg	13	14	14	14	*32*	*35*	*43*	*640*
Cadmium (Total)	mg/kg	< 0.2	< 0.2	< 0.2	<0.2	*10*	*83.6*	*1.8*	*230*
Mercury (Total)	mg/kg	< 1	< 1	< 1	<1	*170*	*238*	*80*	*3600*
Nickel (Total)	mg/kg	15	22	21	33	*130*	*130*	*230*	*1800*
Phenols (Total)	mg/kg	< 2	< 2	< 2	<2	*420*	*519*	*280*	*3200*
Selenium (Total)	mg/kg	< 3	< 3	< 3	<3	*350*	*595*	*120*	*13000*
Total Sulphate as SO4	mg/kg	8437	1723	1400	1644	-	-	-	-
Total Sulphate as SO4	%	0.84	0.17	0.14	0.16	-	-	-	-
W/S Sulphate as SO4 (2:1)	mg/l	1500	560	543	495	-	-	-	-
W/S Sulphate as SO4 (2:1)	g/l	1.5	0.56	0.54	0.50	-	-	-	-
Elemental Sulphur	mg/kg	< 10	32	38	< 10	-	-	-	-
Sulphide	mg/kg	< 5	53	48	< 5	-	-	-	-

Key

PAH - Polyaromatic Hydrocarbons
TPH - Total Petroleum Hydrocarbons
- Not determined

Result exceeds ATRISK screening value
Result exceeds EQS/CIEH generic assessment criteria
Result exceeds CLEA Soil Guideline Value (SGV)

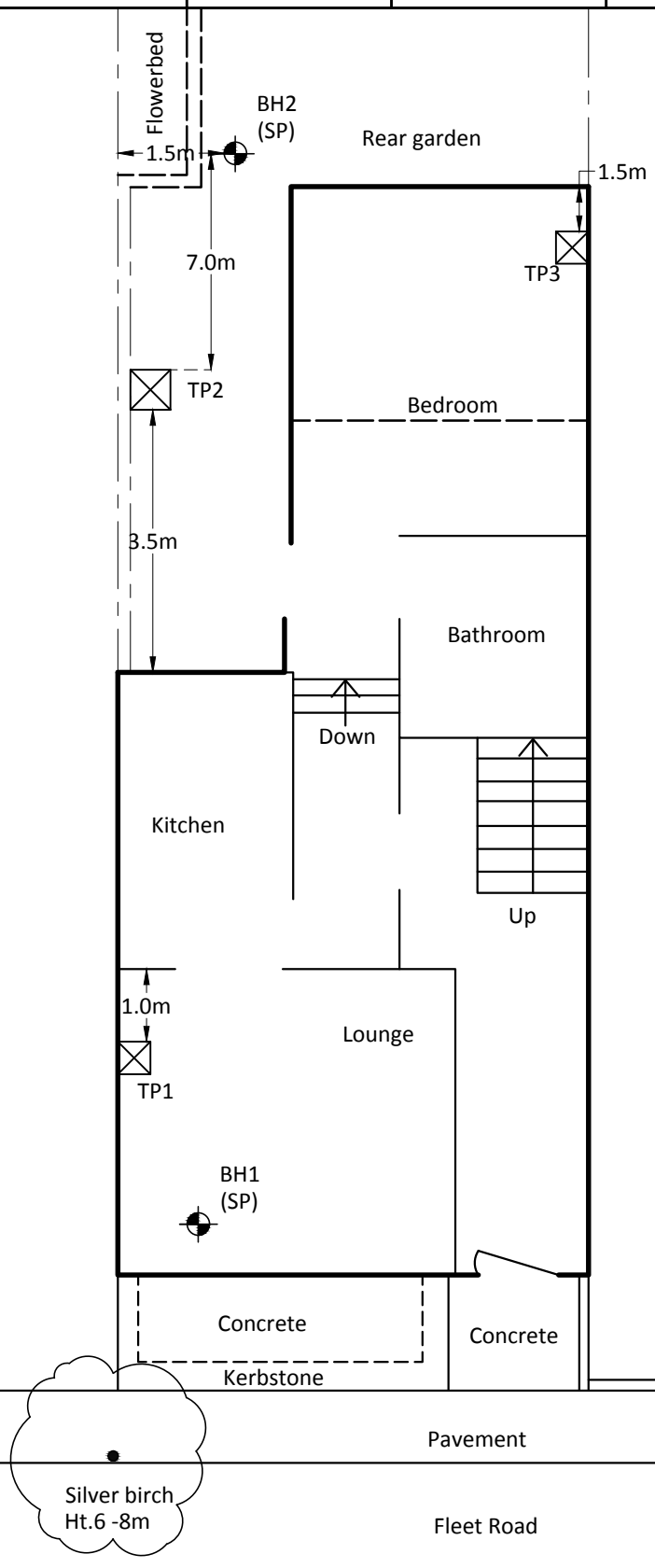
Groundwater/Ground Gas Monitoring Results Sheet

Site Ref: 5839
Site Name: 76 Fleet Road, London.

Well	Date	Methane Peak	Methane Steady	Methane GSV	Carbon Dioxide Peak	Carbon Dioxide Steady	Carbon Dioxide GSV	Oxygen	Atmos.	Flow	Response Zone	Depth to Water	CO	H2S
		%v/v	%v/v	l/hr	%v/v	%v/v	l/hr	%v/v	mbar	l/hr	m bgl	m bgl	ppm	ppm
BH1 (House)	26/10/2015	0.0	0.0	0.0000	0.2	0.1	0.0012	21.1	1008	0.6	1.0 - 5.1	3.60	0	0
	04/11/2015	0.0	0.0	0.0000	2.4	0.1	0.0120	20.6	1008	0.5		3.27	0	0
BH2 (Garden)	26/10/2015	0.0	0.0	0.0000	3.8	3.8	0.0228	17.7	1007	0.6	1.0 - 6.0	2.26	0	0
	04/11/2015	0.0	0.0	0.0000	2.8	2.8	0.0168	18.2	1008	0.6		1.45	0	0

Chelmer Site Investigations
'Groundbreaking Services'

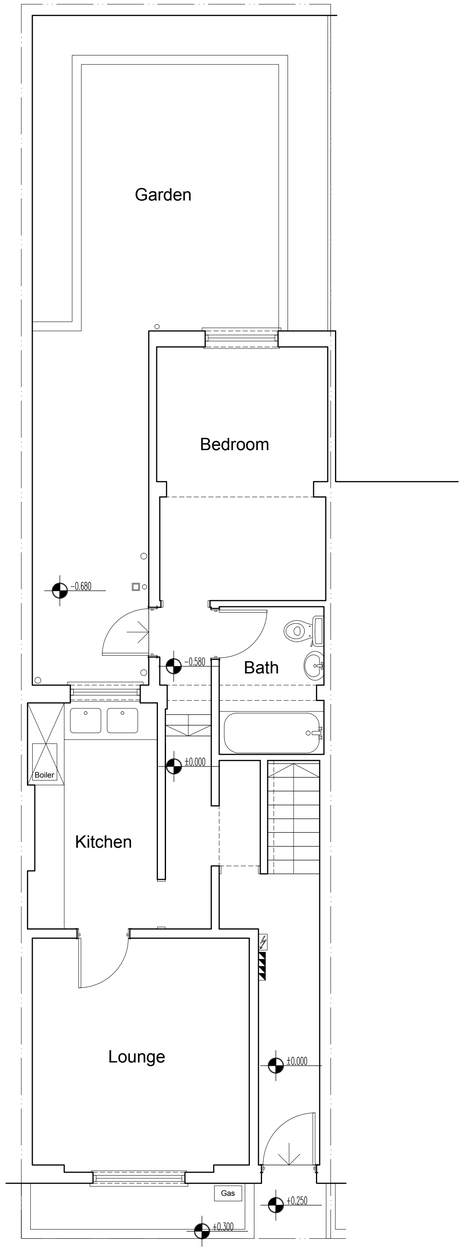
Client: Matt Godfrey	**Scale:** N.T.S.	**Sheet:** 1 of 1	**Date:** 17.09.15/21.09.15		
Location: 76 Fleet Road, London, NW3 2QT	**Job No:** 5839	**Weather:** Fine	**Drawn by: DB**	**Checked by: JH**	



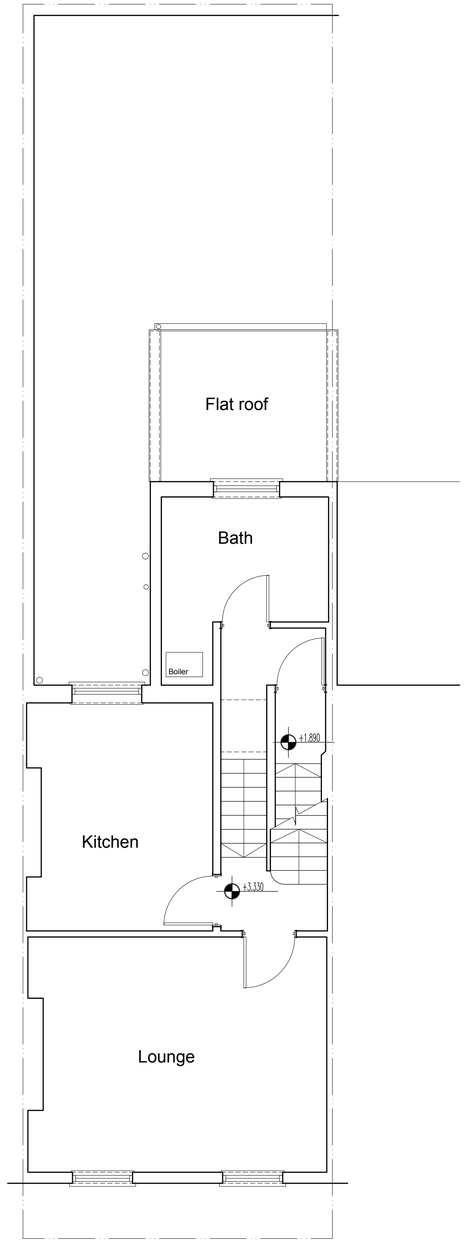
Notes: *On site tree identification for guidance only. Not authenticated.*

Key:

Tree/Shrub | Borehole | Trial Pit | G Gully | Tree Stump | Rain Water/ Soil Pipe | MH Manhole

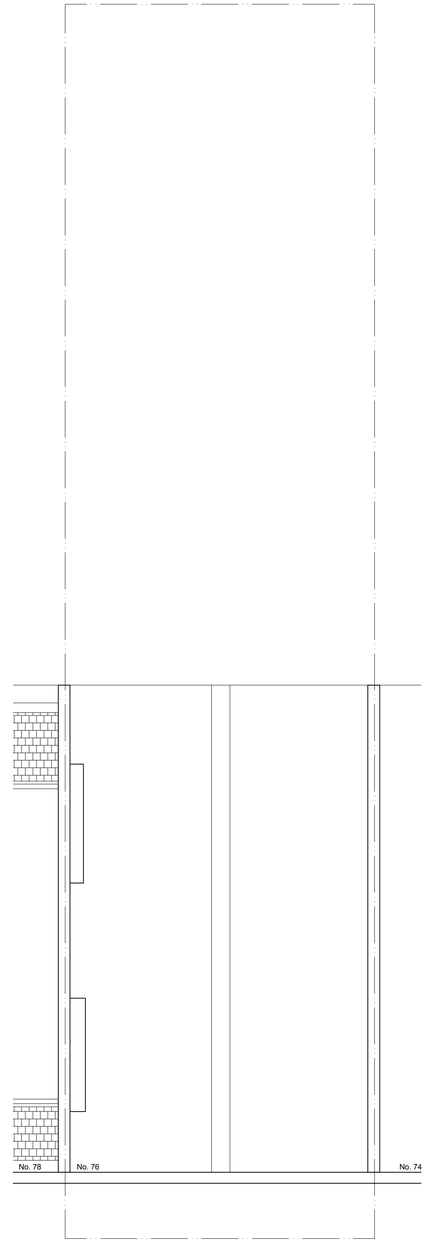


Existing Ground Floor
Scale 1:50



Existing First Floor
Scale 1:50

Existing Second Floor
Scale 1:50



Existing Roof Plan
Scale 1:50

Metres
1:50

0 1 2 3 4 5 10

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Additional Notes

REV	DATE	Initials	REVISION

PROJECT
Extensions and alterations at
76 Fleet Road
London NW3 2QT

CLIENT
Mr. Matt Godfrey

ZONE	DISCIPLINE	STATUS
A	ARCHITECTURE	SURVEY
LEVEL	DRAWING NUMBER	REVISION
A	76FR-PP1-01	
PAPER SIZE	A1 SHEET	
DRAWING TITLE	Existing Plans	
SCALE	DATE	DRAWN	CHECKED
1:50	07/08/2015	KM	YS

A1 SHEET

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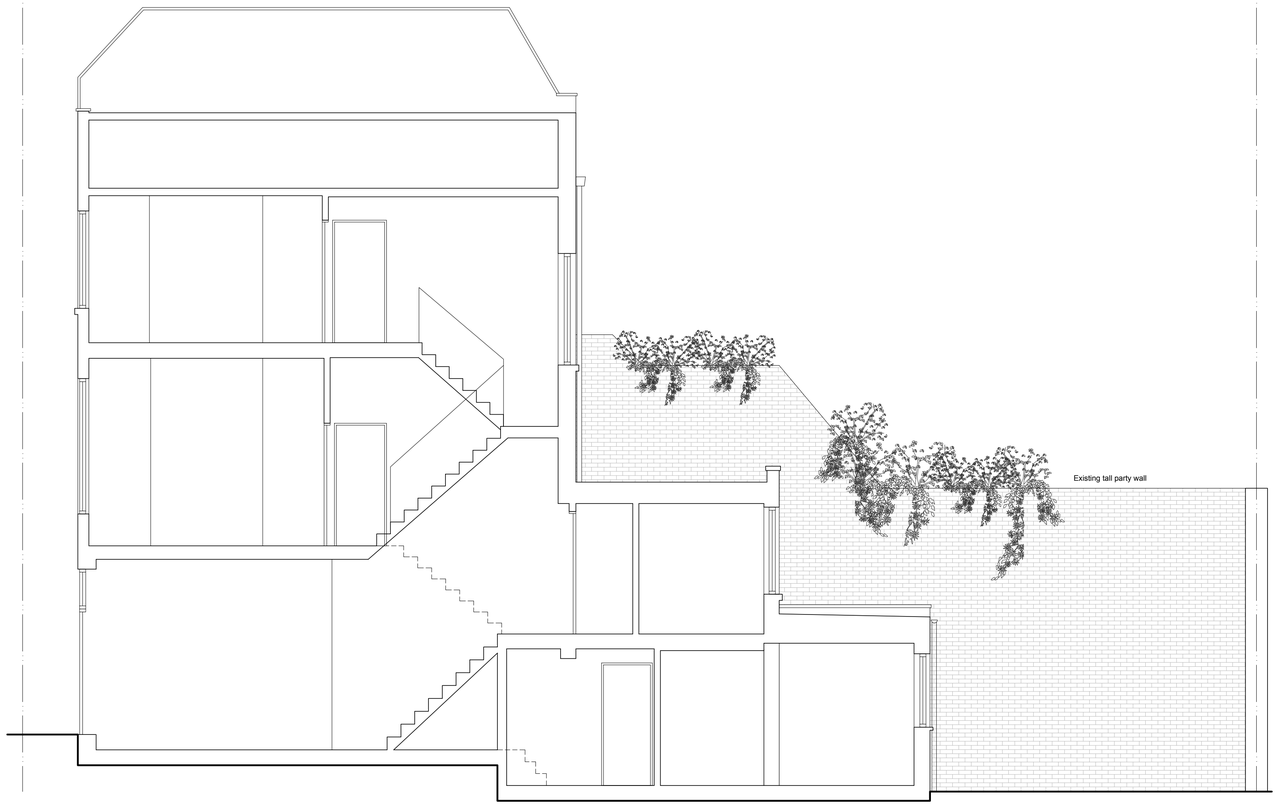
PROJECT TITLE 76 Fleet Road, NW3



Existing Section
Scale 1:50

Metres 1:50 0 1 2 3 4 5 10

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A	ARCHITECTURE	SURVEY
LEVEL	DRAWING NUMBER	REVISION
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PAPER SIZE	A1 SHEET	
DRAWING TITLE	Existing Section	
SCALE	DATE	DRAWN	CHECKED
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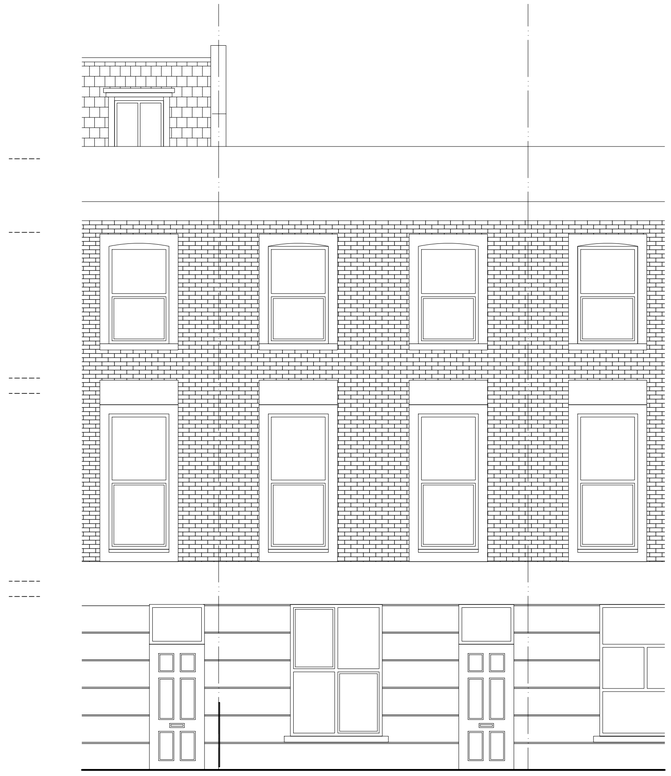
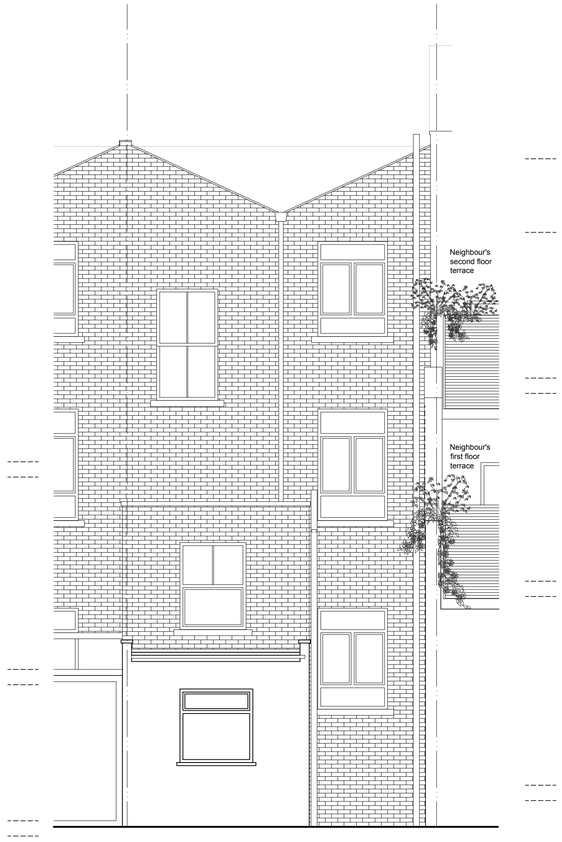
PROJECT TITLE 76 Fleet Road, NW3



Existing Front Elevation
Scale 1:50



Existing Rear Elevation
Scale 1:50

Metres 1:50 0 1 2 3 4 5 10

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A	ARCHITECTURE	SURVEY
LEVEL	DRAWING NUMBER	REVISION
A	76FR-PP1-03	
PAPER SIZE	A1 SHEET	
DRAWING TITLE	Elevations Sections	
SCALE	DATE	DRAWN	CHECKED
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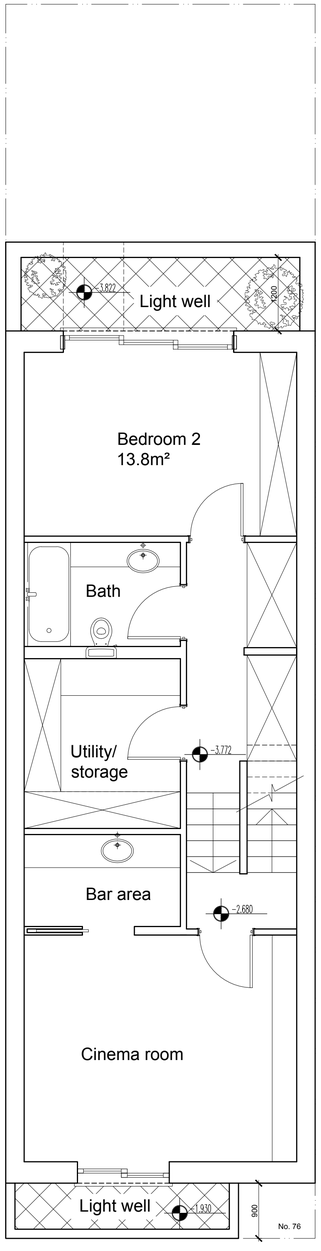
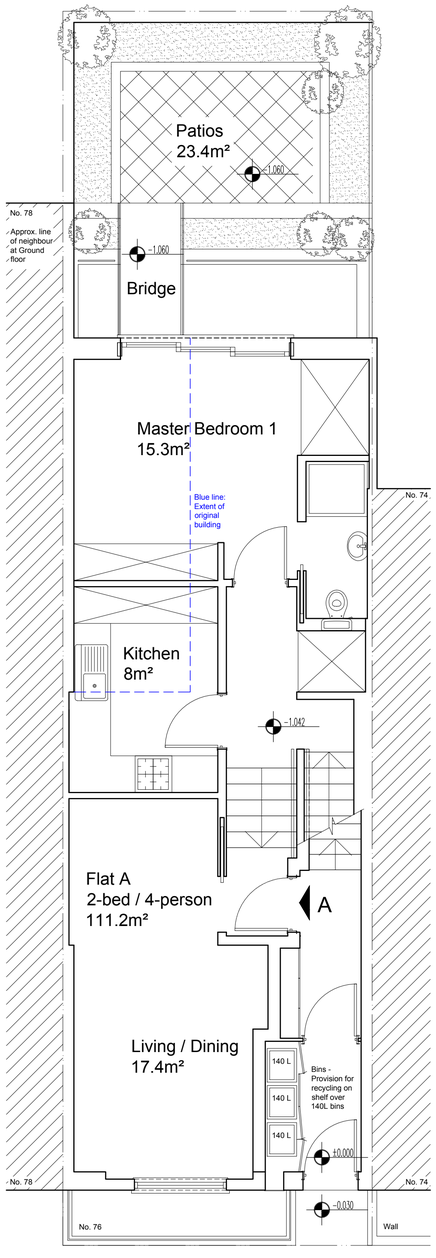
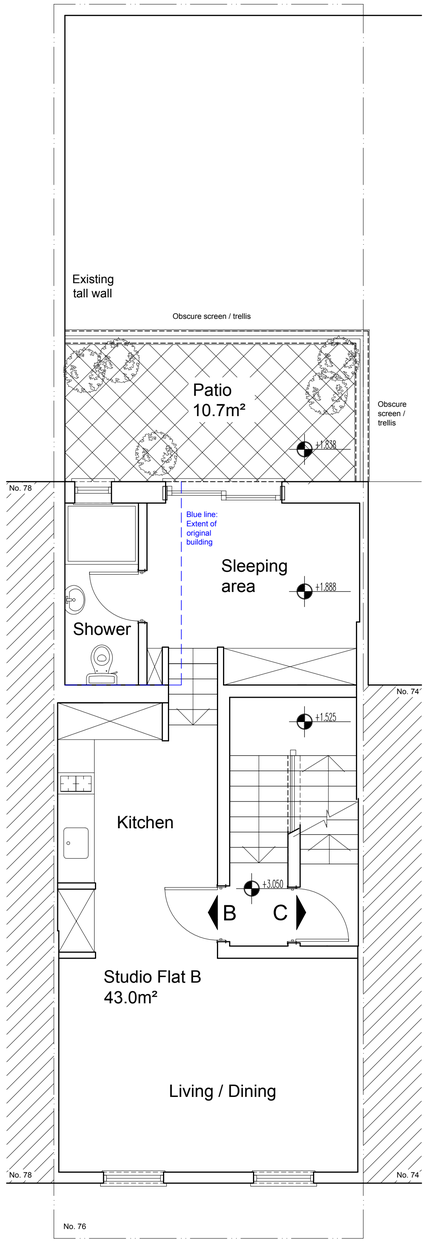
PROJECT TITLE 76 Fleet Road, NW3



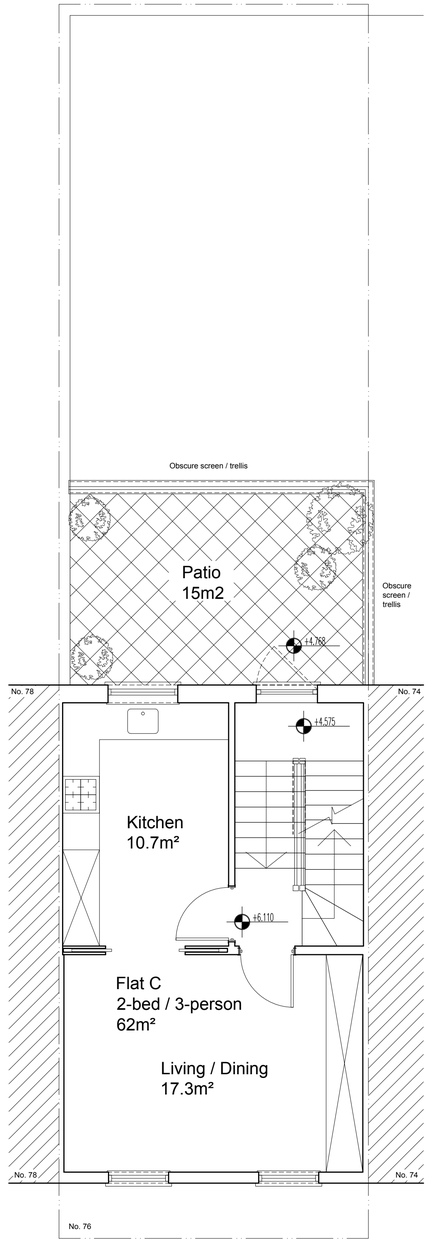
Proposed Basement Floor
Scale 1:50



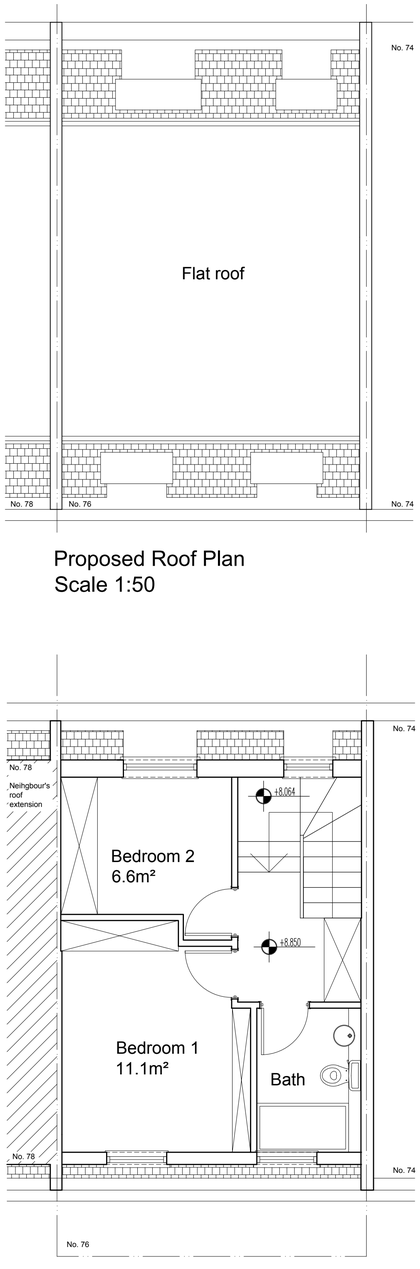
Proposed Ground Floor
Scale 1:50



Proposed First Floor
Scale 1:50



Proposed Second Floor
Scale 1:50



Proposed Roof Plan
Scale 1:50

Proposed Loft
Scale 1:50

Metres 0 1 2 3 4 5 10
1:50

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ZONE	DISCIPLINE	STATUS
A	ARCHITECTURE	PLANNING
LEVEL	DRAWING NUMBER	REVISION
A	76FR-PP1-04	
PAPER SIZE	A1 SHEET	
DRAWING TITLE	Proposed Plans	
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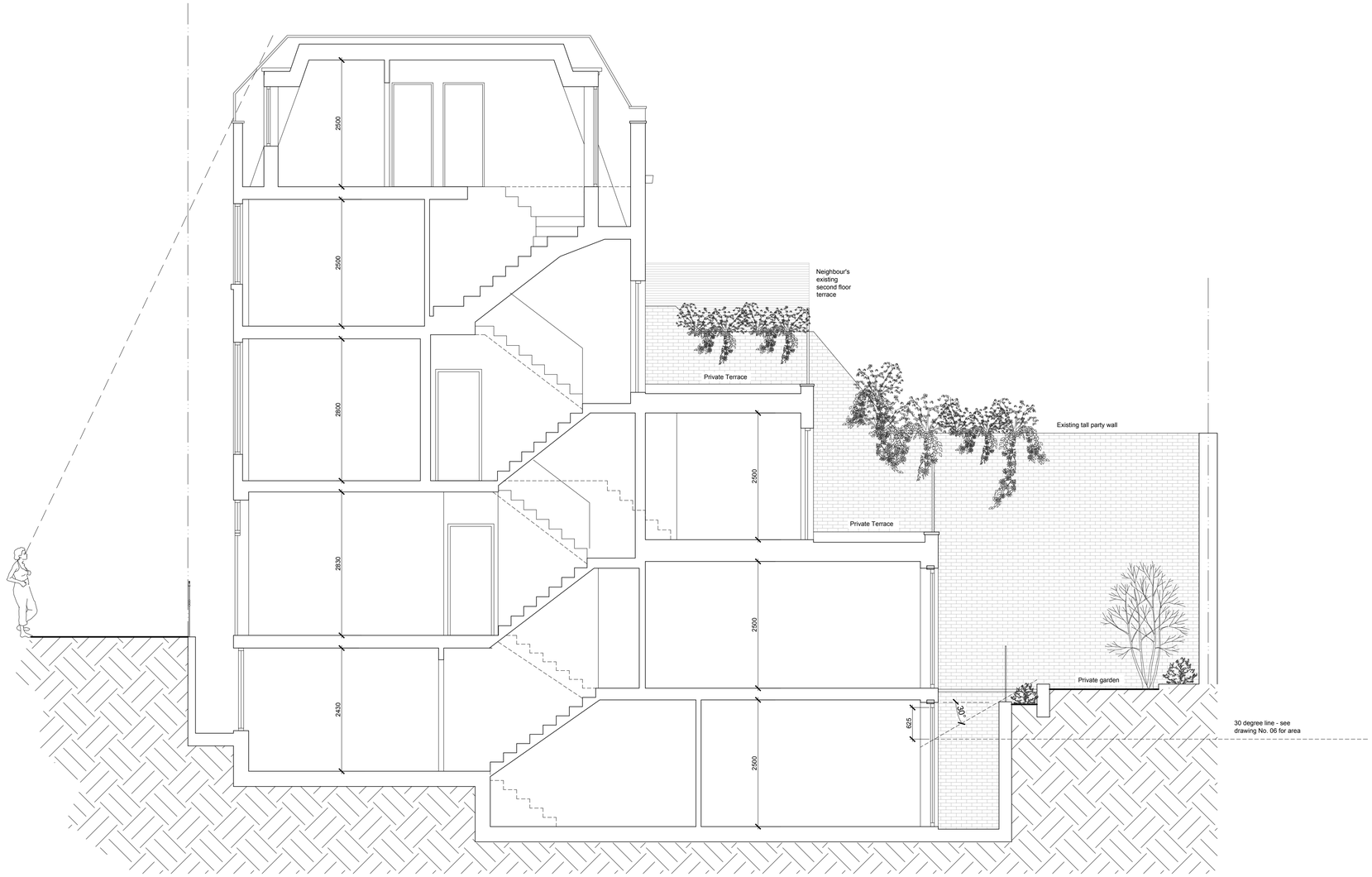

Proposed Section
Scale 1:50

Metres 1:50 0 1 2 3 4 5 10

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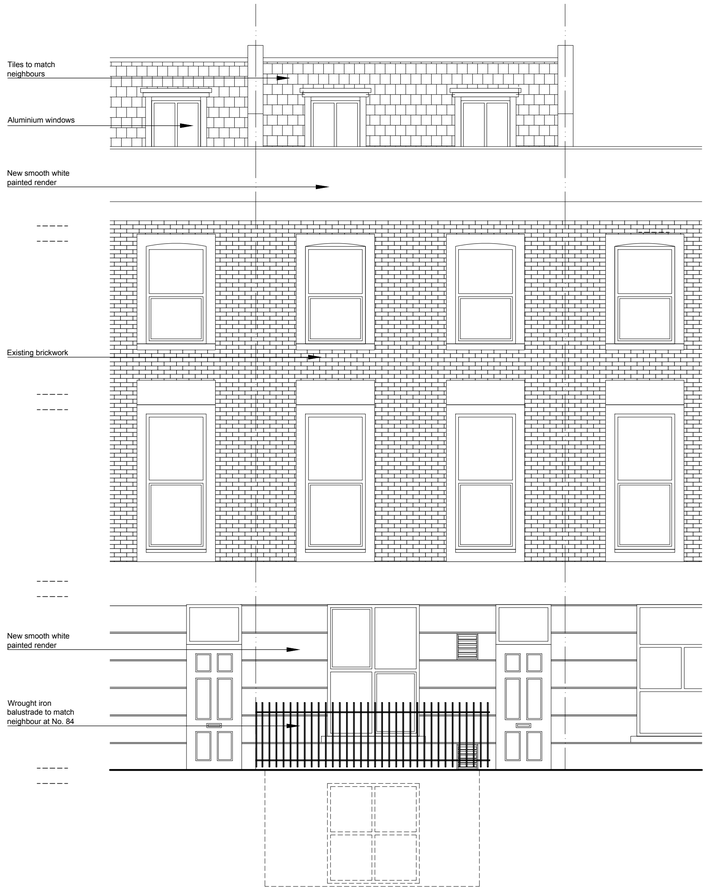
Mr. Matt Godfrey

ZONE	DISCIPLINE	STATUS
A	ARCHITECTURE	PLANNING
LEVEL	DRAWING NUMBER	REVISION
A	76FR-PP1-05	
PAPER SIZE	A1 SHEET	
DRAWING TITLE	Proposed Section	
SCALE	DATE	DRAWN	CHECKED
1:50	07/08/2015	KM	YS

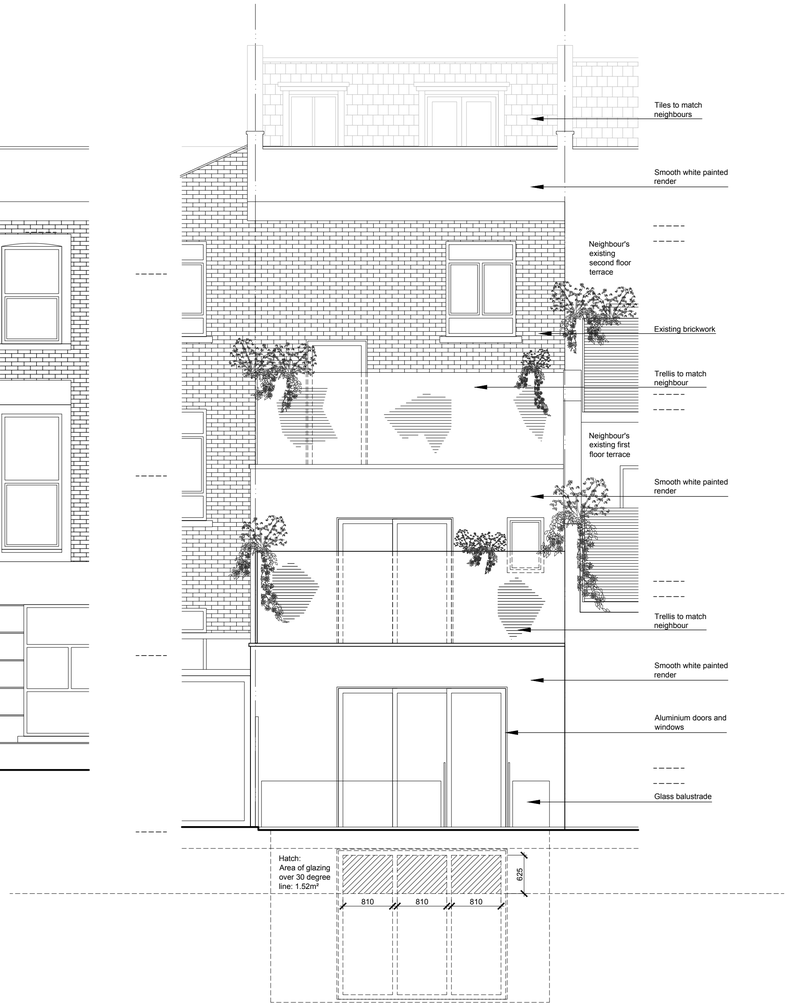
TAL ARC LTD.
ARCHITECTURE | DESIGN
338A REGENT'S PARK ROAD
2ND FLOOR
LONDON N3 2LN, U.K.
T. 020 8349 4338
E. INFO@TALARC.CO.UK
W. WWW.TALARC.CO.UK

A1 SHEET

PROJECT TITLE 76 Fleet Road, NW3

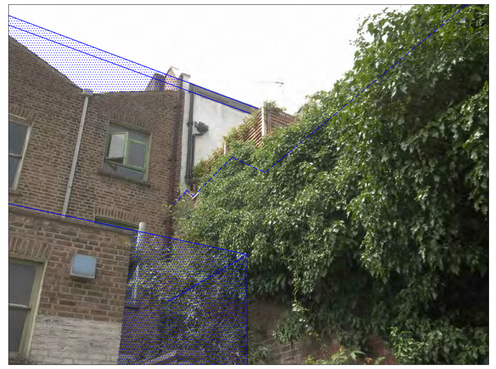


Proposed Front Elevation
Scale 1:50

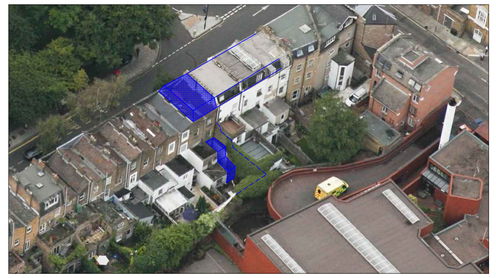


Proposed Rear Elevation
Scale 1:50

Proposed schematic of the added volume:



• Top floor to continue the building line of the neighbour



• Ground and First floor to extend to side only and abut the existing party wall (depicted in dashed line) over 7m in height towards no. 78

Metres
1:50
0 1 2 3 4 5 10

General Notes

Local authorities (Planning Group or Building Control) might request for additional items / information to be added / revised.

Contractor, sub-contractor or supplier is to report any errors, omission or discrepancies on the drawings, and shall not vary any work shown on the drawings without obtaining prior approval from the architect. Contractor, sub-contractor or supplier is responsible for requesting any additional information from the architect for the correct execution of the works.

Contractor, sub-contractor or supplier shall supply to the architect all shop drawings, illustrations, specifications, etc. of all specialist work to be incorporated into the main contract works, and shall immediately inform the architect if any work shown on this drawing is not in accordance with the relevant codes of practice recognised as good practice throughout the industry or if it does not comply with the relevant local authority bye-laws or building regulations.

Contractor to verify all dimensions on site before commencing any work on site or preparing any shop drawings. Figured dimensions to take precedence over scaled dimensions.

Contractor, sub-contractor or supplier shall immediately advise the architect / quantity surveyor of the effect upon programme and cost of any alterations to the proposed works shown on this drawing.

All materials, components and workmanship to comply with the relevant British Standarts, Codes of Practice and appropriate manufacturers' recommendations that from time to time shall apply.

This drawing superseeds all previous issues of the same drawing number with earlier revisions.

Additional Notes

REV	DATE	Initials	REVISION

PROJECT
Extensions and alterations at
76 Fleet Road
London NW3 2QT

CLIENT
Mr. Matt Godfrey

ZONE	DISCIPLINE	STATUS
A	ARCHITECTURE	PLANNING
LEVEL	DRAWING NUMBER	REVISION
A	76FR-PP1-06	
PAPER SIZE	A1 SHEET	
DRAWING TITLE	Proposed Elevations	
SCALE	DATE	DRAWN	CHECKED
1:50	07/08/2015	KM	YS

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