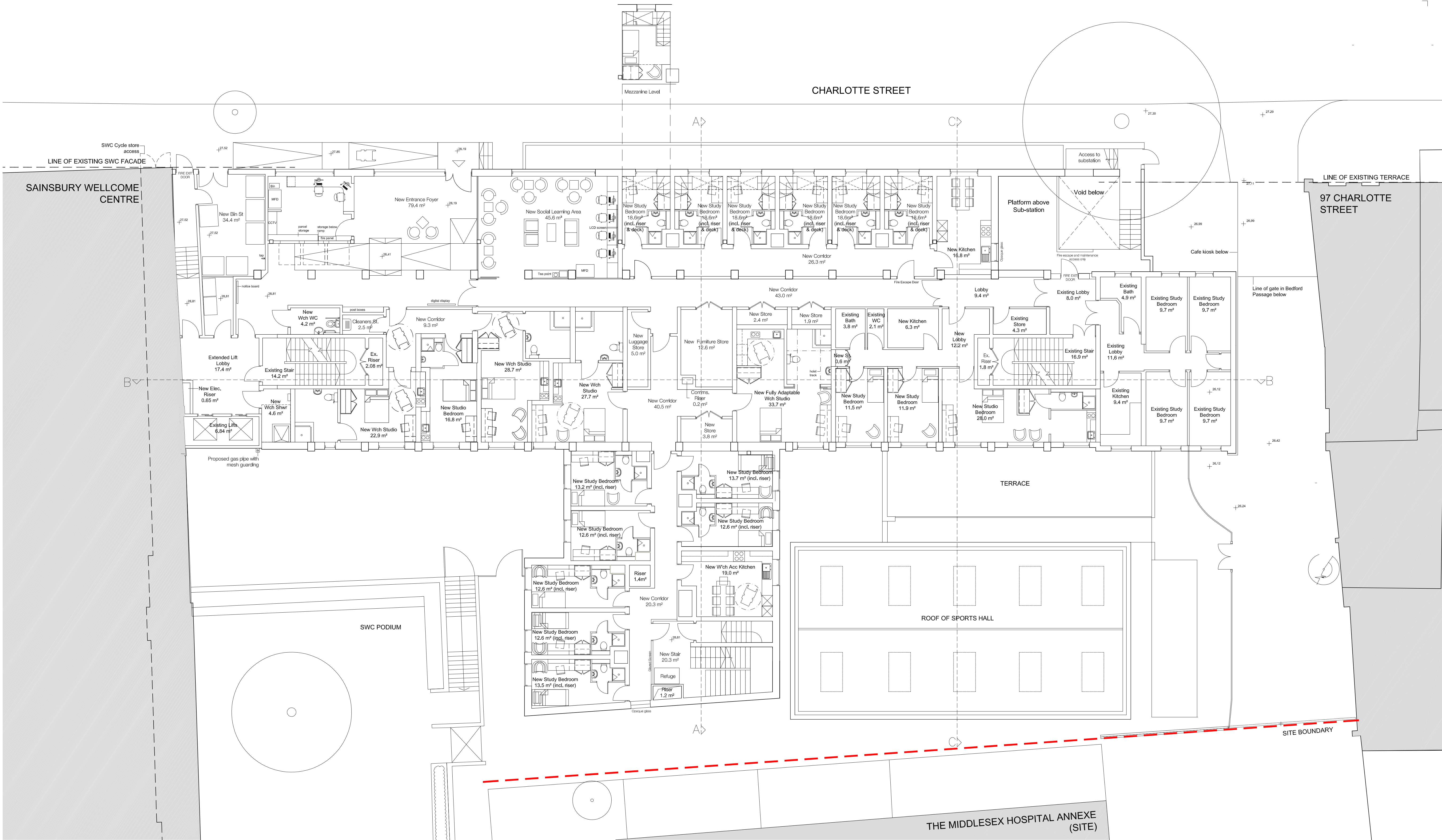


standard notes

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3. Unless shown otherwise, all dimensions are to structural surfaces.

drawing notes

revisions		
P1	30.06.14	First Issue
P2	17.07.14	Pre-App Meeting
P3	23.07.14	Issue to Design Team
P4	30.07.14	Studio and Common area revision
P5	12.08.14	Revised rear locations
P6	12.08.14	Layout revisions following cost exercise
P7	16.09.14	VAT layout revisions
P8	30.09.14	Podium and existing flat revised
P9	08.10.14	Pre-App meeting
P10	10.11.14	Plinth area revised following planners feedback
P11	13.11.14	Reception area and Wch flat revised
P12	14.11.14	Studio kitchenettes revised
P13	28.11.14	Revisions following pre-app feedback
P14	05.12.14	Minor revisions following client feedback
P15	08.12.14	Principals meeting
P16	08.12.14	Issue to design team
P17	19.12.14	For Design Team comment
P18	12.01.14	Revised ground floor fire escapes
P19	15.01.14	Rear extension moved
P20	19.01.15	Planning pack issue to UCL
P21	23.01.15	Issue for Planning

ASTOR COLLEGE, UCL

Charlotte Street, W1T 4QB

date June 2014	client UCL	Levitt Bernstein 1 Kingsland Passage London E8 2BB
scale 1:100@A1	drawing Proposed Upper Ground Floor Plan	t: 020 7275 7676 f: 020 7275 9348 w: levittbernstein.co.uk e: post@levittbernstein.co.uk
drawn AF	checked TG	drawing number 2869 L 100
		rev P21

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▷ A

C>

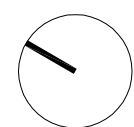
Bv

97 CHARLOTTE
STREET

 $\neg B$

SPORTS HALL | ROOF BELOW

THE MIDDLESEX HOSPITAL ANNEXE
(SITE)



drawing notes

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- First Issue
- Pre-App Meeting
- Issue to Design Team
- Revised riser locations
- Stage C Report
- Revised layout following costing exercise
- VAT layout revision
- Pre-App Meeting
- Issue to design team
- Principals meeting
- Issue to Design Team
- For Design Team comment
- Issue to Design Team
- Rear extension moved

P15	19.01.15	Planning pack issue to UCL
P16	23.01.15	Issue for Planning

June 2014

scale
1:100@A1

drawn	checked
AF	TG

UCL

drawing
Proposed Typical Upper Floor Plan (1st -6th)

drawing number	rev
2869 L 101	P16

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Drawings

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CHARLOTTE STREET

SAINSBURY WELLCOME
CENTRE

LINE OF
PODIUM BELOW

97 CHARLOTTE
STREET

Proposed gas pipe with
mesh guarding

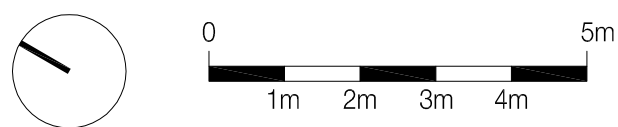
— Plant layout indicative

New Plan
41,1 m²

— Acoustic enclosure to plant

Plant
access
hatch

THE MIDDLESEX HOSPITAL ANNEXE
(SITE)



standard notes

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drawing notes

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revisions

revisions		P12	14.11.14	Issue to design team
		P13	08.12.14	Principals meeting
P1	04.07.14	P14	09.12.14	Issue to design team
P2	17.07.14	P15	19.12.14	For Design Team comment
P3	23.07.14	P16	15.01.15	Rear extension moved
P4	30.07.14	P17	19.01.15	Planning pack issue to UCL
P5	26.08.14	P18	23.01.15	Issue for Planning
P6	29.08.14			
P7	04.09.14			
P8	12.09.14			
P9	16.09.14			
P10	30.09.14			
P11	06.10.14			

ASTOR COLLEGE, UCL
Charlotte Street, W1T 4QB

date	client
June 2014	UCL
scale	drawing
1:100@A1	Proposed 7th Floor Plan

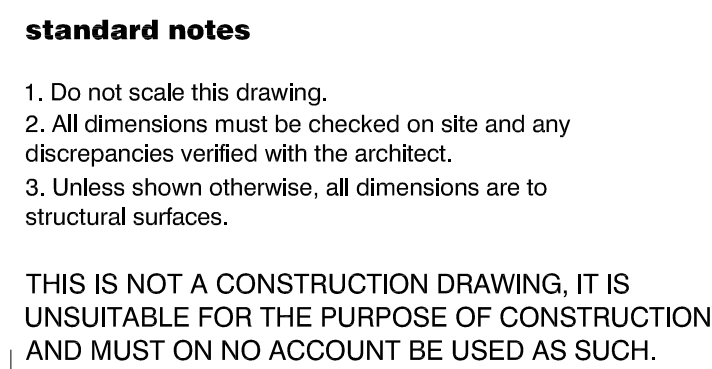
drawn	checked	drawing number	rev
FH	TG	2869 L103	P18

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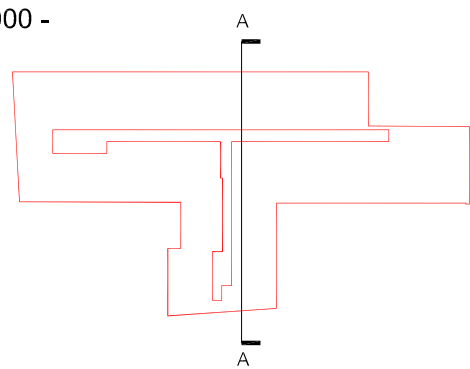
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Key @1:1000 -



revisions		
P1	17.07.14	Pre-App Meeting
P2	23.07.14	Design Team Issue
P3	30.07.14	Pre-App Submission
P4	29.08.14	Stage C Report
P5	30.09.14	Podium and VAT revision
P6	06.10.14	Pre-App Meeting
P7	14.11.14	Podium accommodation revised
P8	09.12.14	Issue to design team
P9	19.12.14	For Design Team comment
P10	19.01.15	Planning pack issue to UCL
P11	23.01.15	Issue for Planning

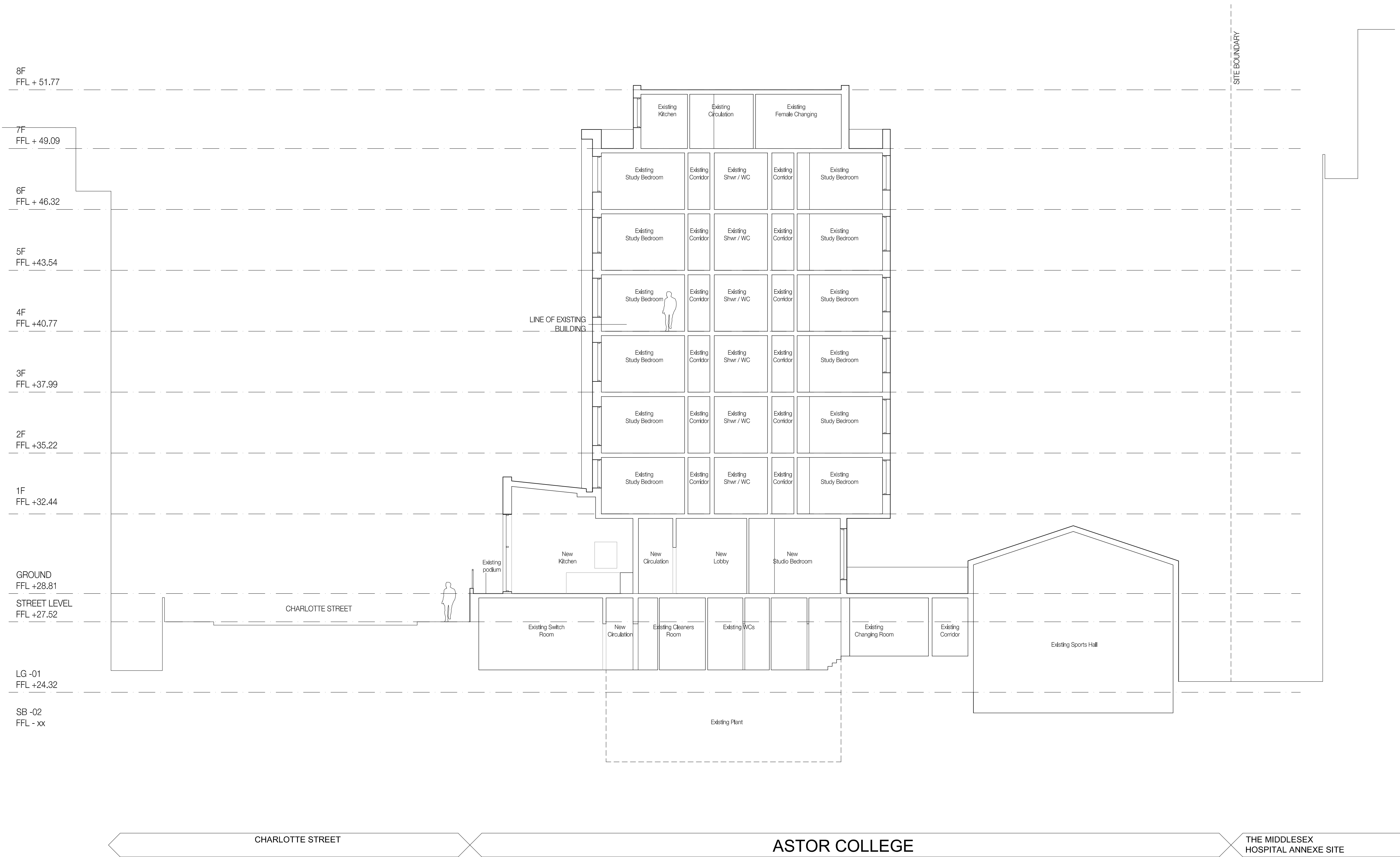
ASTOR COLLEGE, UCL
Charlotte Street, W1T 4QB

date	client		
July 2014	UCL		
scale	drawing		
1:100@A1	Proposed Section A		
drawn	checked	drawing number	rev
FH	KS	2869 L201	P11

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1 Kingsland Passage
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E8 2BB

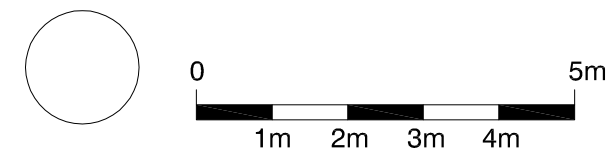
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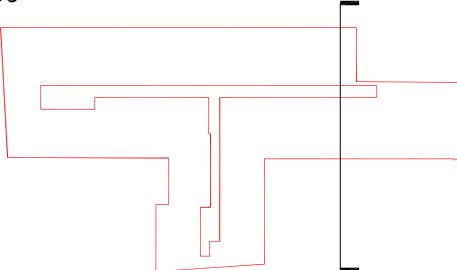
standard notes

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drawing notes

Key @1:1000 -



revisions

P1	06.01.15	First issue
P2	19.01.15	Planning pack to UCL
P3	23.01.15	Issue for Planning

date	client	Levitt Bernstein
July 2014	UCL	1 Kingsland Passage
scale	drawing	London
1:100@A1	Proposed Section C	E8 2BB
drawn	checked	drawing number
FH	KS	2869 L 203
rev	rev	rev
	P3	

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Key:

Bedford Passage building overhang line

Betula albosinensis (chinese red birch): standard; RB; 20-25 cm girth; 4 x tr - Q31

Shade tolerant shrubs, herbaceous plants and ferns (refer to planting schedule) - Q31

FSC certified hardwood timber seat; dimensions: A (2650 x 500 mm), B (2755 x 500 mm), C (2075 x 3960/4045 mm); timber slats 75x40mm with 10 mm gaps; galvanised steel support to in-situ concrete and blockwork; fixings by others - Q50 221

FSC certified hardwood timber backrest; inclined (45° and 60° respectively) towards the wall to a H circa 600mm; timber slats 75x40mm with 10 mm gaps; galvanised steel support to blockwork; fixed mesh screen to supports at both ends; ; fixings by others - Q50 221

Paving slabs to match existing on Charlotte St

400 x 400 x 50 mm granite slabs; colour: silver grey; sawn to all faces and fine picked finish to all exposed faces; slabs to butt up against each other - Q25

Addaset Resin Bound Porous Decorative Surfacing by Addagrip (5mm aggregate; Autumn Gold colour); base buildups, mixing and application of the product to follow manufacturer's instructions and recommended specification - Q23 225A

150 x 125 mm square concrete channel; colour: natural grey - Q10 110A

In-situ cast smooth finish high quality 'visual' concrete low-rise (max 500 mm) wall; 45°/20mm chamfered top edges (reinforcement and footing to engineer's detail and specification) - Q50 222

Aluminium edge restraint (AluExcel AE18RM - 18 x 30 mm) - Q10 200A

railings and associated secure gates: to architectural plans

Galvanized steel gully grating (200 x 200 mm) to engineer's specification

Linear drainage (width 120 mm; galvanized steel grating) - Q10 180A

Falls (surface water runoff direction)

Gradients

Existing levels

Proposed levels

Proposed contour lines (each 100 mm)

Gradient change

Mild steel 'Sheffield' cycle stand with base plate and holding down bolts to concrete foundation; powder coated finish; RAL colour to match metalwork - Q50 213

Voss Bs30 seat: steel and hardwood timber bench - Q50 220

Furnitubes Voss 555: stainless steel litter bin - Q50 240A

Wall-recessed light (to M&E engineer's specification)

Wall-mounted light (to M&E engineer's specification)

Uplighter to tree (to M&E engineer's specification)

Luminaires fixed to soffit (to M&E engineer's specification)

2869 - Astor College Plant Schedule

Trees							
Qty	Name	Form	Min. Height/cm	X transplant	Support	Root condition	Girth
5	Betula albosinensis (chinese red birch)	Standard	250	4x	Underground guy	RB	120-25 cm

Medium Shrubs (1.5-2.5 m)

Qty	Name	Min. Height/cm	Form	No. breaks	Root condition	Container Size
1	Camellia williamsii 'Golden Spangle'	100-125	Bushy	4	Container	C10
5	Chaetrea arbutifolia	100-125	Bushy	4	Container	C10
1	Viburnum x burkwoodii	100-125	Bushy	4	Container	C10
1	Viburnum lina 'Yanetspium'	100-125	Bushy	4	Container	C10

Small Shrubs (1.0-1.5 m)

Name	Density/m sq	Height	Form
Malvuna bracteata	2	40-60	Bushy
Sarcococca hookeriana	4	40-60	Bushy
Stemodia japonica 'Winkelskurt White'	4	40-60	Bushy
Chamaeneris daniellii	2	40-60	Bushy

Herbaceous Plants

Name	Density/m sq	Container Size
Carex lasiocarpa	5	C1.5-P13
Impatiens cylindrica 'Rubra'	5	C1-P11
Koeleria glauca	6	C1.5-P13
Lantana maculatum 'White Nancy'	6	C1.5-P13
Luzula sylvatica	4	C1.5-P13
Malva camelliae	5	C1.5-P13
Pulmonaria 'Stalderhursch White'	6	C1.5-P13
Leostegia verticillata	12	C1-P11

Ferns

Name	Density/m sq	Container Size
Adiantum radicans	5	C1-P11
Adiantum pedatum	4	C1-P11
Blackthorn perna maritima	7	C1-P11
Epimedium dryopteris	6	C1-P11
Polystichum tomentosum	6	C1-P11

0 1m 2m 3m 4m 5m

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ASTOR COLLEGE, UCL

Charlotte Street, W1T 4QB

date

June 2014

scale

1:100@A1

drawn

GPM

checked

GPM

drawing number

2869 L900

rev

T1

client

1 Kingsland Passage
London
E8 2BB

drawing

Proposed Landscape Plan

Levitt Bernstein

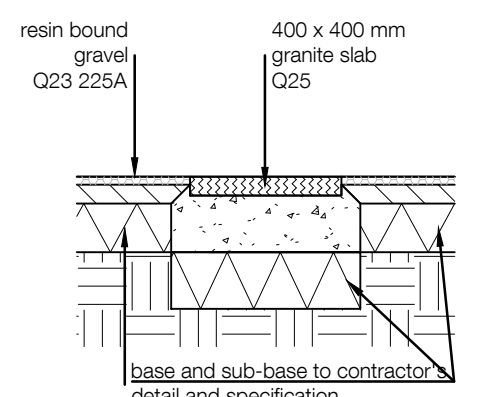
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revisions

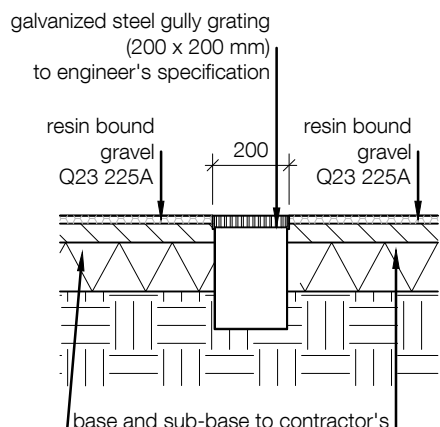
P1	19.01.15	Planning pack issue to UCL
P2	23.01.15	Issue for Planning
P3	04.02.15	Issue for Stage D
P4	14.07.15	Issue for Stage 3
P5	22.12.15	Updated Design
P6	15.01.16	Issued for Costing
P7	19.01.16	Issued for Costing
T1	19.02.16	Tender Issue

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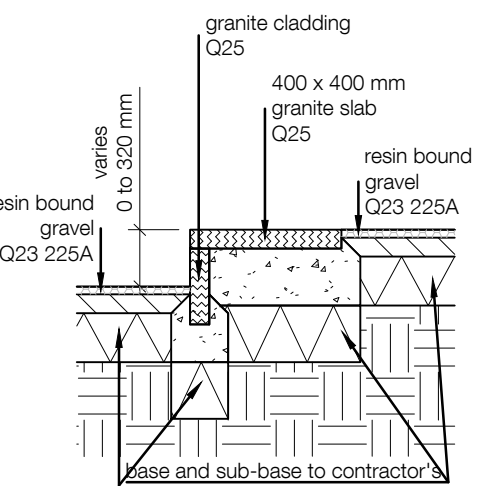
A. SURFACING



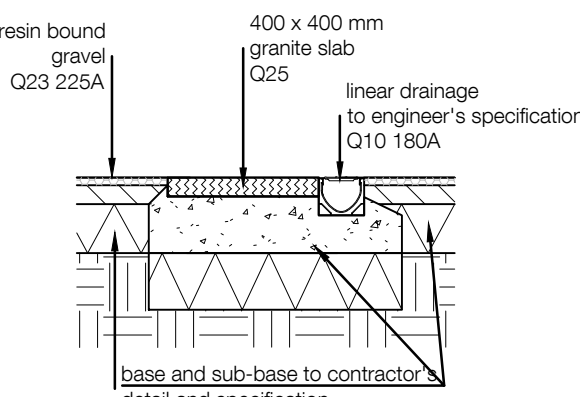
A.1.GRANITE STRIPS - RESIN BOUND



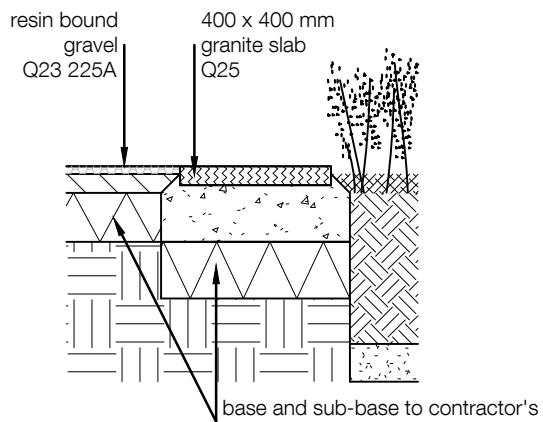
A.6.RESIN BOUND
GULLY



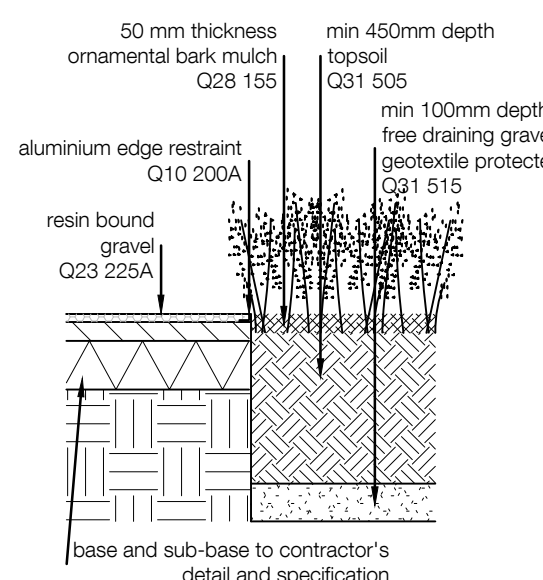
A.2.GRANITE STRIPS - RESIN BOUND
STEP



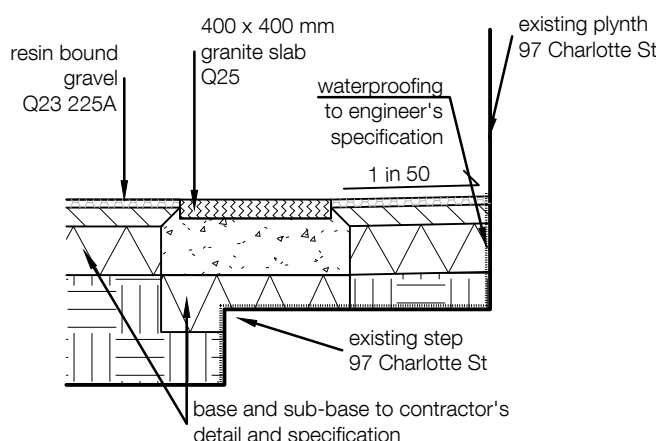
A.3.GRANITE STRIPS - RESIN BOUND
LINEAR DRAIN



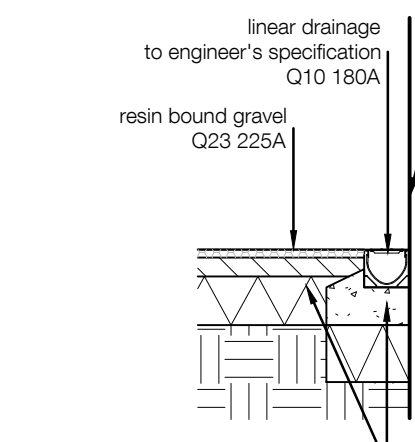
A.7.FLUSH PLANTER
GRANITE EDGING



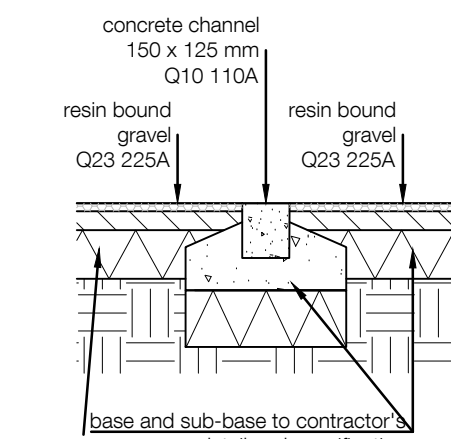
A.8.RESIN BOUND / PLANTER
ALUMINIUM EDGING



A.9.-97 CHARLOTTE STREET
PLYNTH AND STEP

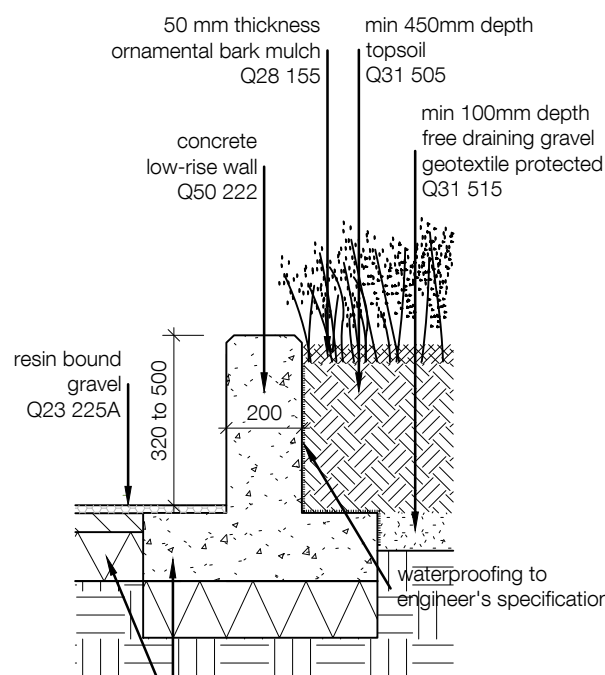


A.4.RESIN BOUND
LINEAR DRAIN - BUILDING

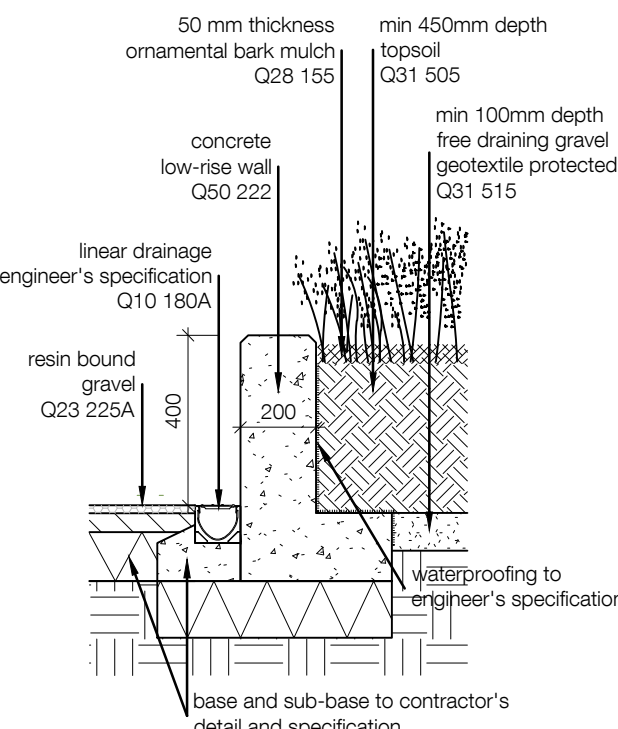


A.5.RESIN BOUND
SQUARE CHANNEL EDGE

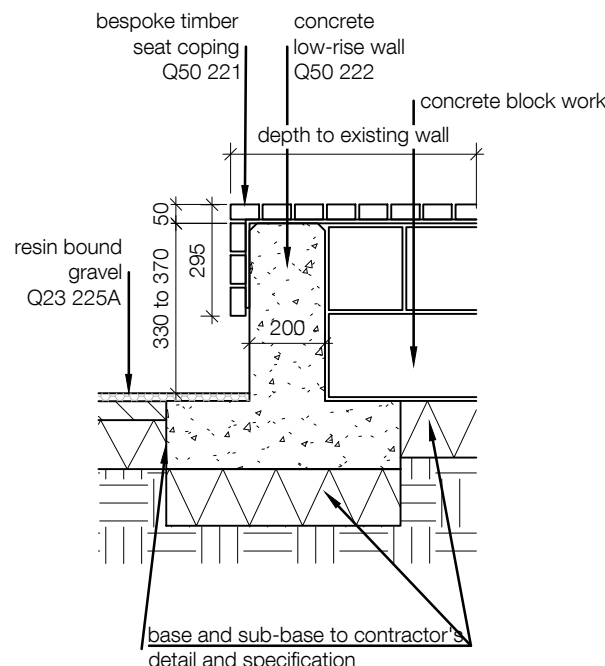
B. RAISED ELEMENTS



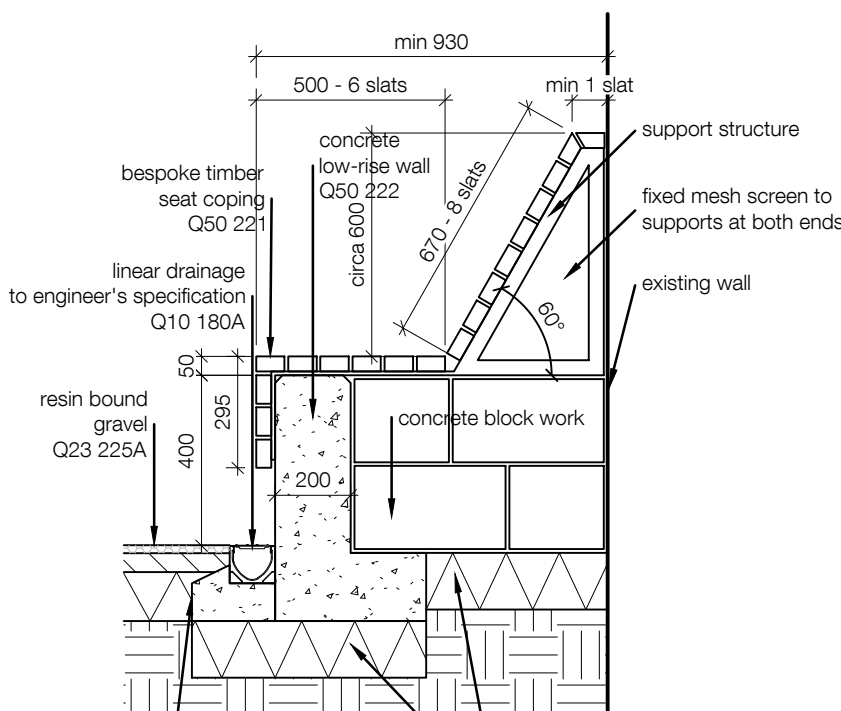
B.1.LOW-RISE CONCRETE WALL



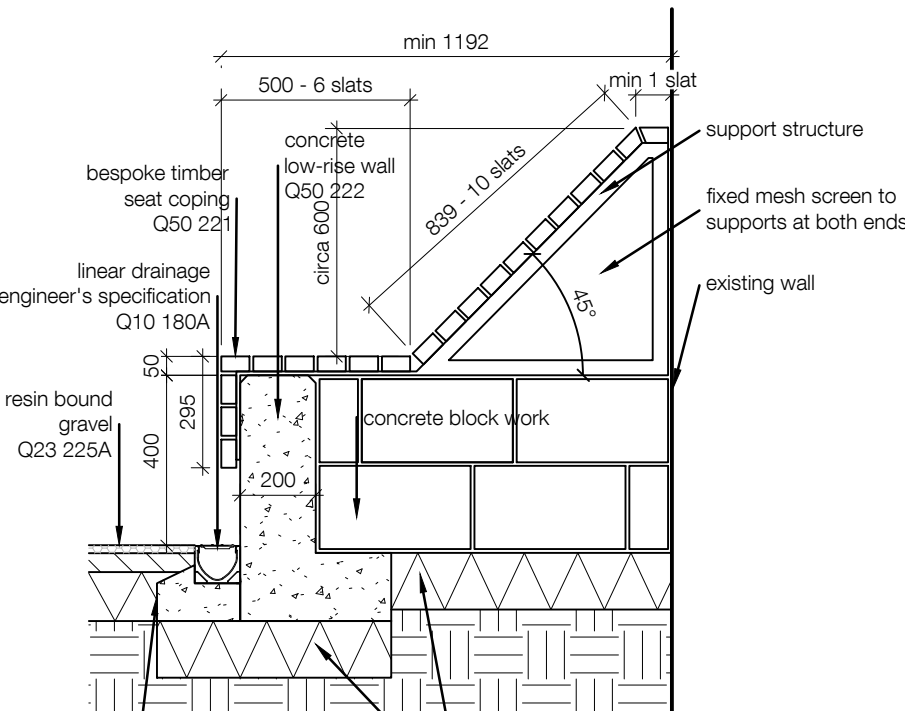
B.2.LOW-RISE CONCRETE WALL
LINEAR DRAIN



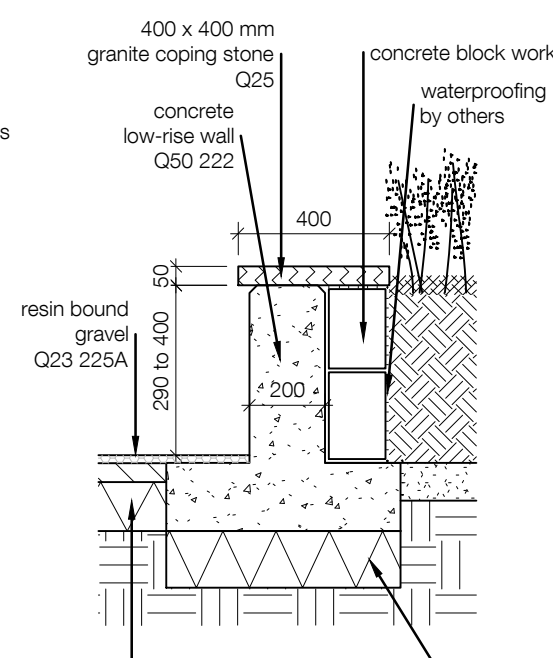
B.3.TIMBER SEAT C



B.4.TIMBER SEAT A

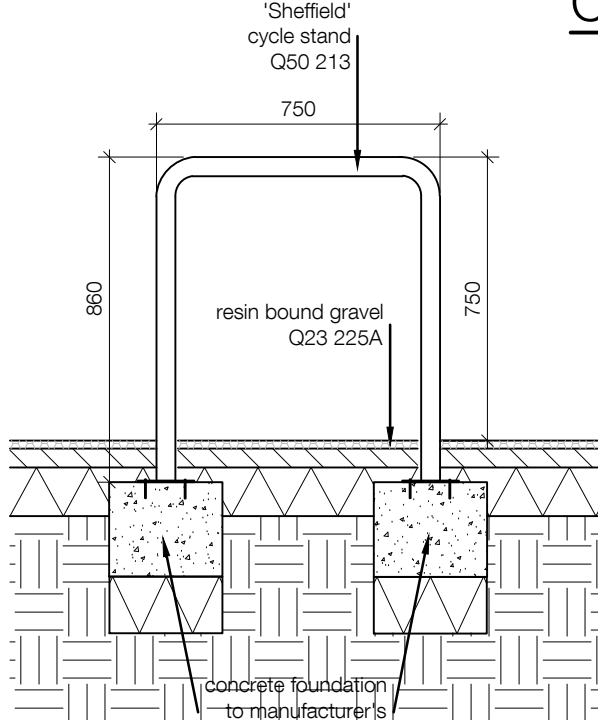


B.5.TIMBER SEAT B

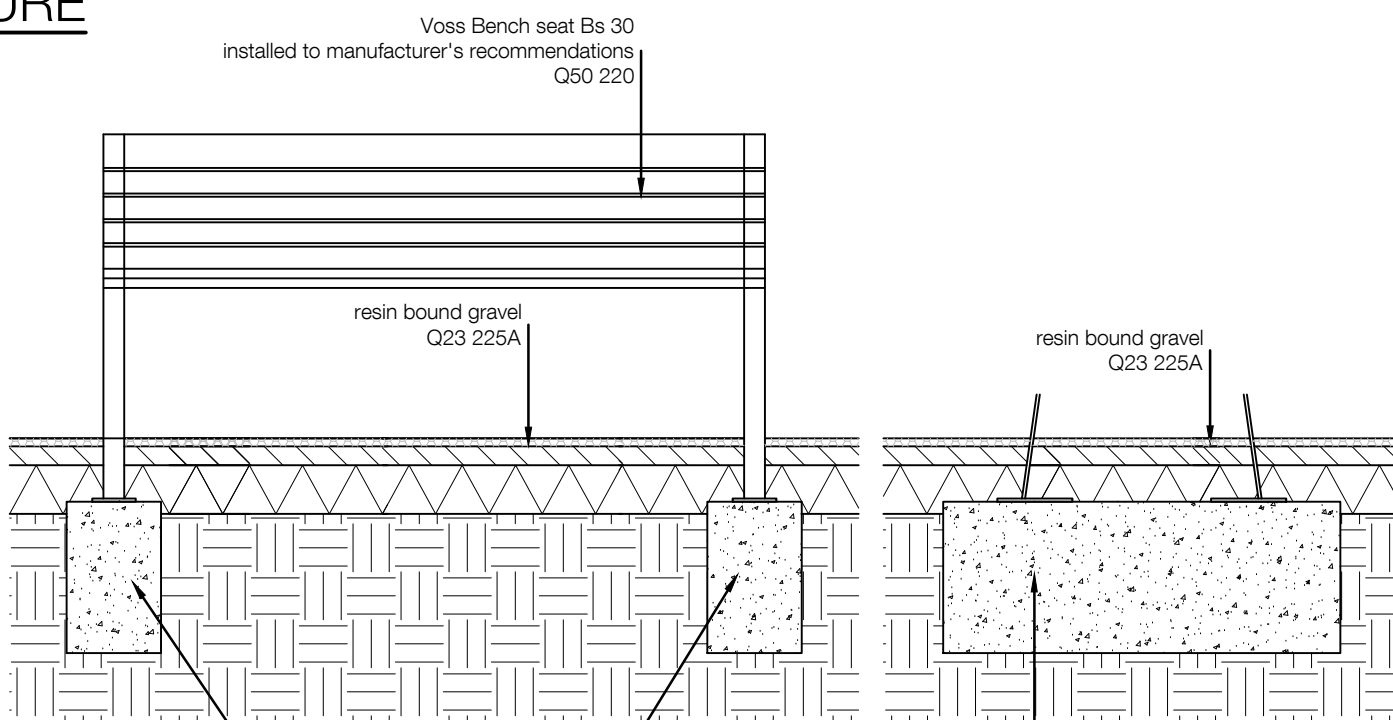


B.6.LOW-RISE CONCRETE WALL
GRANITE COPING

C. FURNITURE

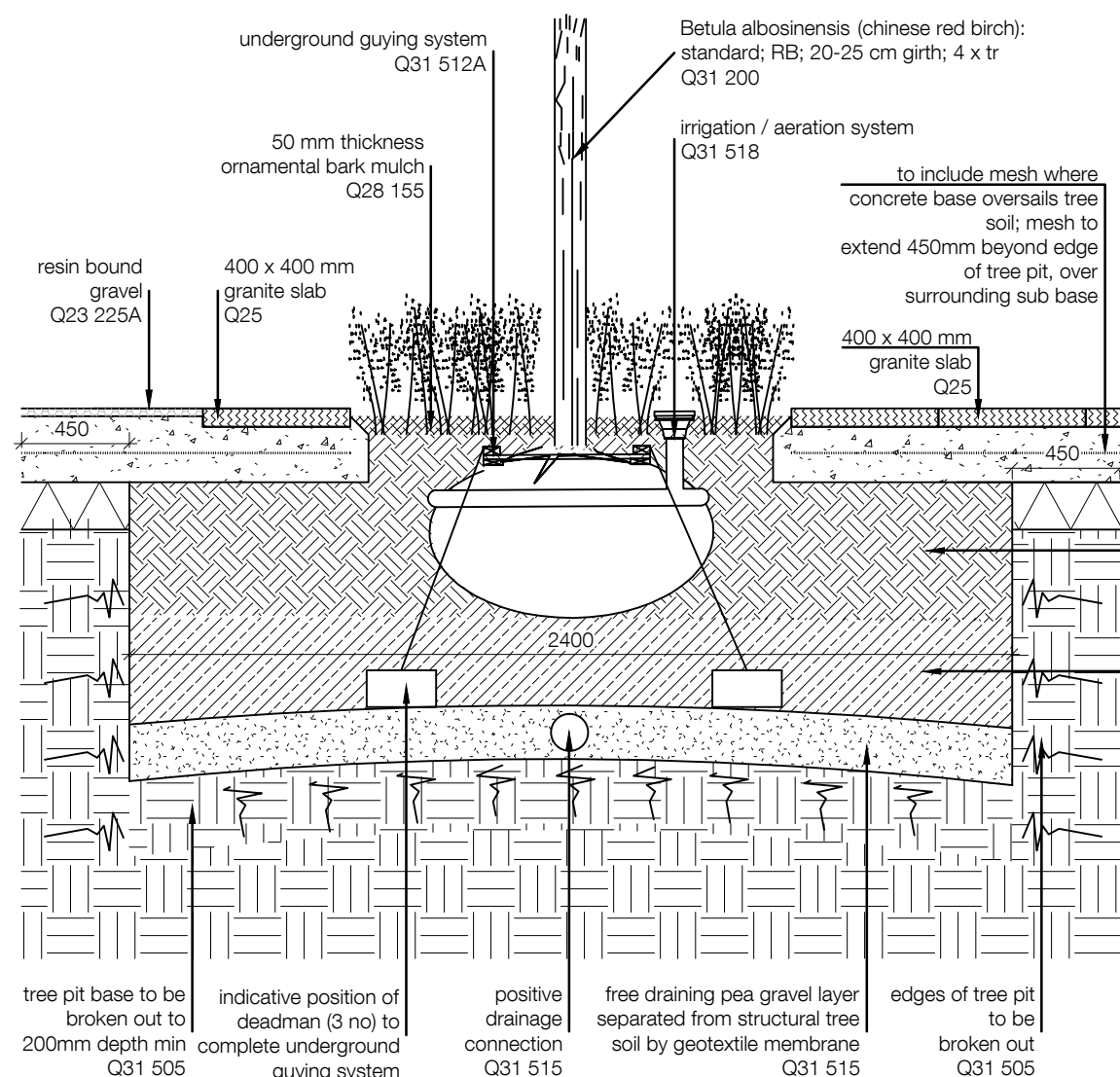


C.1.SHEFFIELD CYCLE STAND ON RESIN BOUND

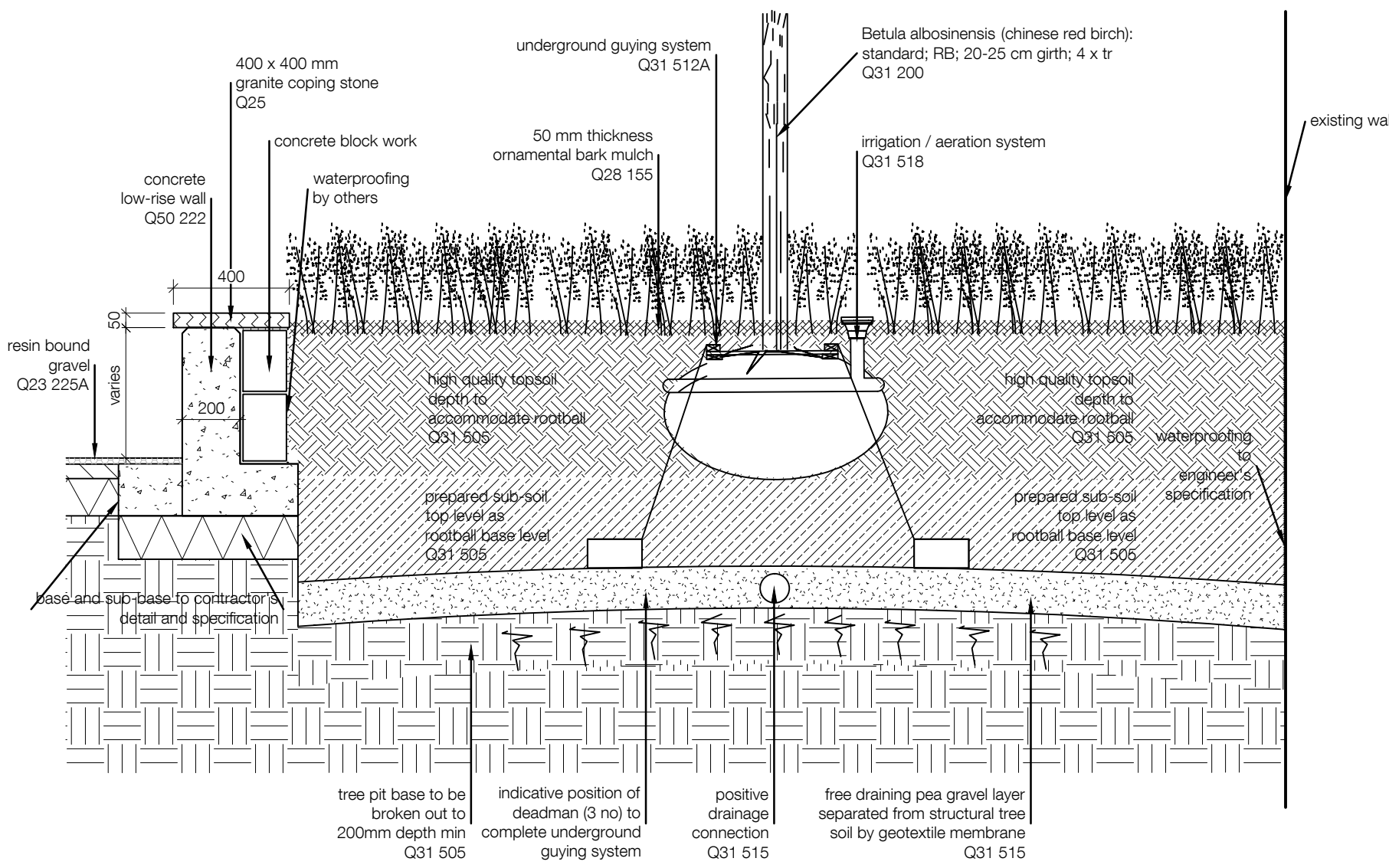


C.2.BENCH BEDFORD PASSAGE

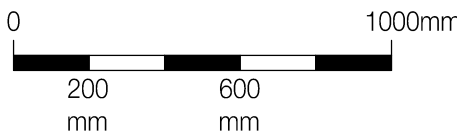
D. TREES / PLANTERS



D.1.TREE PIT



D.2.TREE IN RAISED PLANTER



standard notes

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drawing notes

revisions

P1	15.01.16	Issued for Costing
P2	20.01.16	Issued for Costing
T1	19.02.16	Tender Issue

date

June 2014

client

UCL

scale

1:20@A1

drawing

Landscape Details 1

drawn

GPM

checked

GPM

drawing number

2869 L901

rev

T1

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Appendix D

Soil Mechanics Ground Investigation Information

D1 Logs

Borehole Log



Soil Mechanics

Drilled PH/IP Logged JB/SH Checked PM		Start 12/01/2011 End 24/02/2011	Equipment, Methods and Remarks Dando 3000 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 48.30 m depth. BH terminated early due to hard stratum and problems retrieving the cutting tool.			Depth from 0.00m 6.90m 25.90m 43.00m	to 6.90m 25.90m 43.00m 48.30m	Diameter 300mm 250mm 200mm 150mm	Casing Depth 1.20m 6.90m 26.00m 43.00m	Ground Level +26.33 mOD Coordinates E 529320.68 N 181833.71 Chainage	
Samples and Tests						Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth,Level (Thickness)	Legend	Backfill/ Instruments			
0.30 0.30 0.30-0.50 0.70-0.90	ES 1 D 2 B 3 B 4	4 samples taken			(MADE GROUND) MACADAM	0.03 +26.30					
					(MADE GROUND) CONCRETE	0.25 +26.08					
					(MADE GROUND) Soft greyish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to well rounded fine to coarse of brick, concrete, flint, rare clinker and marble fragments. Rare cobbles of brick.	(0.75)					
					(MADE GROUND) Soft dark grey slightly sandy to sandy slightly gravelly to gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of brick, concrete, flint, rare clinker, oyster shells, pottery and clay pipe fragments.	1.00 +25.33					
1.00 1.00 1.00-1.20 1.20-1.62 1.20 1.20-1.70	ES 5 D 6 B 7 SPT S D 8 B 9	4 samples taken * 9 (1,1/2,1,2,4 for 45mm)	1.20	dry							
2.00 2.00 2.20-2.64 2.20 2.20-2.70 2.20-2.70	D 10 ES 11 SPT S D 12 B 13 D 14	4 samples taken 0 (1,-) SW=20	1.20	dry							
3.00 3.00 3.20-3.70 3.20 3.20-4.00	D 15 ES 16 SPT S D 17 B 18	4 samples taken N=10 (1,2/2,2,3,3) SW=50	3.20	dry							
4.00 4.00 4.20-4.65 4.20 4.20-4.70 4.65	D 19 ES 20 SPT S D 21 B 22 W 23	4 samples taken N=16 (1,1/2,4,5,5)	12/01/2011 4.00	1200 dry							
5.00 5.00 5.20-5.65 5.20-5.70	D 24 ES 25 SPT S B 26	4 samples taken * N=19 (2,2/4,4,7)	13/01/2011 4.00	0800 dry							
5.80 5.80-6.30 6.00	D 27 B 29 ES 28	4 samples taken	13/01/2011 6.30	1800 dry							
6.30-6.90	B 30		21/01/2011 6.30	0800 dry							
6.90-7.35	U 31	25 blows	21/01/2011 6.90	1800 dry							
7.40-7.85 7.40 7.40 7.90	SPT S D 32 D 33 D 34	N=26 (2,3/5,6,7,8)	16/02/2011 6.90	0800 dry							
8.40-8.85	U 35	45 blows	8.00	dry							
8.90-9.35 8.90 8.90 9.40	SPT S D 36 D 37 D 38	N=29 (2,3/4,11,7,7)	8.00	dry							
9.90-10.35	U 39	50 blows	8.00	dry							
Depth	Type & No	Records	Date Casing	Time Water	Stratum continues to 10.40 m						
Groundwater Entries					Depth Related Remarks *					Chiselling Depths (m)	
No.	Struck (m)	Post strike behaviour	Depth sealed (m)		From to (m)					Time	Tools used
1	4.80	Rose to 4.65 m after 20 minutes.	-		1.20 50.00 SPT hammer ID SM04 (Er 67%); rod type B 5.20 5.70 Water added to assist boring.						
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Project UCL HS, London, W1T					Borehole	
Scale 1:50					Project No. D0050-10					BH1	
(c) ESGL www.esgl.co.uk 408.24 12/04/2011 12:02:17					Carried out for UCL Properties Ltd					Sheet 1 of 5	

Borehole Log



Soil Mechanics

Drilled PH/IP Logged JB/SH Checked PM		Start 12/01/2011 End 24/02/2011	Equipment, Methods and Remarks Dando 3000 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 48.30 m depth. BH terminated early due to hard stratum and problems retrieving the cutting tool.			Depth from 0.00m 6.90m 25.90m 43.00m	to 6.90m 25.90m 43.00m 48.30m	Diameter 300mm 250mm 200mm 150mm	Casing Depth 1.20m 6.90m 26.00m 43.00m	Ground Level +26.33 mOD Coordinates E 529320.68 National Grid N 181833.71 Chainage	
Samples and Tests						Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 1)				Depth,Level (Thickness)	Legend	Backfill/ Instruments
10.40-10.85 10.40 10.40	SPT S D 40 D 41	N=27 (2,3/5,6,7,9)	8.00	dry	Very stiff fissured grey CLAY. Fissures are extremely to very closely spaced, randomly orientated, smooth and matt. (LONDON CLAY FORMATION)				10.40 +15.93		
10.90	D 42				Very stiff fissured grey CLAY. Fissures are randomly orientated, planar to undulating and matt. Rare burrows infilled with blueish grey clay. (LONDON CLAY FORMATION)				(1.70)		
11.40-11.85	U 43	50 blows	8.00	dry							
11.90-12.30 11.90 11.90	SPT S D 44 D 45	52 (9,14 for 50mm/ 20,20,6,6 for 50mm)	8.00	dry					12.10 +14.23 12.20 +14.13		2
12.40	D 46				Weak grey CLAYSTONE recovered as grey subangular to subrounded fine to coarse gravel. (LONDON CLAY FORMATION)						
12.90-13.35	U 47	45 blows	8.00	damp	Very stiff fissured grey CLAY. Fissures are extremely closely spaced, planar to undulating and matt. (LONDON CLAY FORMATION)						
13.40-13.85 13.40 13.40	SPT S D 48 D 49	N=28 (2,5/6,7,7,8)	8.00	damp					(3.20)		
13.90	D 50				13.90 m Becoming slightly sandy.						
14.40-14.85	U 51	50 blows	8.00	damp	14.40-14.85 m Slightly sandy and silty.						
14.90-15.35 14.90 14.90	SPT S D 52 D 53	N=37 (3,5/7,9,10,11)	8.00	dry							
15.40	D 54				Very stiff grey slightly sandy silty CLAY. Sand is fine. (LONDON CLAY FORMATION)				15.40 +10.93		
15.90-16.35	U 55	55 blows	8.00	dry							
16.40-16.85 16.40 16.40	SPT S D 56 D 57	N=33 (4,5/7,8,9,9)	8.00	dry							
16.90	D 58		16/02/2011 8.00	1800 dry							
17.40-17.85	U 59	65 blows	17/02/2011 8.00	0800 dry							
17.90-18.35 17.90 17.90	SPT S D 60 D 61	N=35 (5,6/7,8,9,11)	8.00	dry	17.90-18.35 m Rare burrows infilled with blueish grey clay.						
18.40	D 62										
18.90-19.35	U 63	65 blows	8.00	dry							
19.40-19.85 19.40 19.40	SPT S D 64 D 65	N=41 (5,8/9,10,10,12)	8.00	dry							
19.90	D 66										
Depth	Type & No	Records	Date Casing	Time Water	Stratum continues to 24.90 m						
Groundwater Entries					Depth Related Remarks *				Chiselling		
No.	Struck (m)	Post strike behaviour	Depth sealed (m)		From to (m)				Depths (m)	Time	Tools used
2	12.10	very slow seepage	-						12.10 -12.20	15 mins	Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Project UCL HS, London, W1T				Borehole		
Project No. Carried out for					D0050-10 UCL Properties Ltd				BH1		
Scale 1:50					(c) ESGL www.esgl.co.uk 408.24 12/04/2011 12:02:19				Sheet 2 of 5		

Borehole Log



Soil Mechanics

Drilled PH/IP Logged JB/SH Checked PM		Start 12/01/2011 End 24/02/2011	Equipment, Methods and Remarks Dando 3000 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 48.30 m depth. BH terminated early due to hard stratum and problems retrieving the cutting tool.			Depth from 0.00m 6.90m 25.90m 43.00m	to 6.90m 25.90m 43.00m 48.30m	Diameter 300mm 250mm 200mm 150mm	Casing Depth 1.20m 6.90m 26.00m 43.00m	Ground Level +26.33 mOD Coordinates E 529320.68 National Grid N 181833.71 Chainage		
Samples and Tests					Strata							
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 2)					Depth,Level (Thickness)	Legend	Backfill/ Instruments
20.40-20.85	U 67	65 blows	8.00	dry	Very stiff grey slightly sandy silty CLAY. Sand is fine. (LONDON CLAY FORMATION) 							

Borehole Log



Soil Mechanics

Drilled PH/IP Logged JB/SH Checked PM		Start 12/01/2011 End 24/02/2011	Equipment, Methods and Remarks Dando 3000 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 48.30 m depth. BH terminated early due to hard stratum and problems retrieving the cutting tool.			Depth from 0.00m 6.90m 25.90m 43.00m	to 6.90m 25.90m 43.00m 48.30m	Diameter 300mm 250mm 200mm 150mm	Casing Depth 1.20m 6.90m 26.00m 43.00m	Ground Level +26.33 mOD Coordinates E 529320.68 National Grid N 181833.71 Chainage	
Samples and Tests						Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 3)				Depth,Level (Thickness)	Legend	Backfill/ Instruments
29.90 29.90 30.40	D 92 D 93 D 94				Very stiff fissured multicoloured brown, red, blue and grey CLAY. Fissures are extremely closely spaced, randomly orientated and matt. Colours are red, brown, blue and grey. (LAMBETH GROUP)						
30.90-31.35	U 95	60 blows	26.00	dry	Very stiff fissured grey CLAY. Fissures are extremely closely spaced, planar to undulating and polished. (LAMBETH GROUP)				30.80 -4.47		3
31.40-31.85 31.40 31.40	SPT S D 96 D 97	N=34 (4,6/6,7,10,11)	26.00	dry					(1.00)		
31.90	D 98				Very stiff fissured dark grey CLAY. Fissures are closely spaced, planar to undulating and polished. (LAMBETH GROUP)				31.80 -5.47		
32.40-32.85	U 99	70 blows	26.00	dry	31.80 m Pockets (10 x 15 mm) of black material - possible lignite. 31.90 m Gleying on fissure surfaces. 32.40-32.85 m Slightly sandy and slightly gravelly. 32.40 m Becoming very dark in colour.				(0.80)		
32.90-33.35 32.90 32.90	SPT S D 100 D 101	N=44 (6,10/10,11,11,12)	26.00	dry	Very stiff fissured multicoloured orange, red, brown, blue and grey sandy CLAY. Fissures are extremely closely spaced, randomly orientated and matt. Sand is fine to medium. (LAMBETH GROUP)				32.60 -6.27		
33.40	D 102								(0.80)		
33.90-34.35	U 103	100 blows 400 mm rec	26.00	damp	Very stiff fissured multicoloured orange, red, brown, blue and grey sandy CLAY. Fissures are extremely closely spaced, randomly orientated and matt. Sand is fine to medium. (LAMBETH GROUP)				33.40 -7.07		
34.35-34.78 34.35 34.35	SPT S D 104 D 105	50 (6,10/13,17,20 for 50mm)	26.00	damp					(2.10)		
34.90	D 106		21/02/2011 26.00	1800 damp							
35.40-35.85	U 107	100 blows 200 mm rec	26.00	damp							
35.65-36.10 35.65 35.65	SPT S D 108 D 109	N=50 (25,-/50,-,-,-)	26.00	damp	Dense to very dense brownish grey clayey SAND. Sand is fine to medium. (LAMBETH GROUP)				35.50 -9.17		4
36.40	D 110								(1.20)		
36.90-37.35	U 111	100 blows 200 mm rec	26.00	damp	Very dense brown mottled bluish grey very clayey SAND. Sand is fine. (LAMBETH GROUP)				36.70 -10.37		
37.15-37.54 37.15 37.15	SPT S D 112 D 113	50 (15,10 for 35mm/ 26,24 for 50mm)	26.00	damp	37.15 m Locally clayey.				(0.80)		
37.90	D 114				Very stiff fissured multicoloured red, brown, blue and grey CLAY. Fissures are extremely closely spaced, randomly orientated and matt. (LAMBETH GROUP)				37.50 -11.17		
38.40-38.85	U 115	100 blows 250 mm rec	26.00	damp							
38.70-39.15 38.70 38.70	SPT S D 116 D 117	50 (10,15/23,27 for 70mm)	26.00	damp	38.40-38.85 m Sandy and slightly silty. 38.70 m Locally dark grey to black.						
39.40	D 118								(4.00)		
39.90-40.35	U 119	100 blows 400 mm rec	26.00	damp	39.40 m Locally slightly sandy. Sand is fine. Locally green, blue, grey, purple and yellow.						
Depth	Type & No	Records	Date Casing	Time Water	Stratum continues to 41.50 m						
Groundwater Entries					Depth Related Remarks *				Chiselling		
No.	Struck (m)	Post strike behaviour	Depth sealed (m)		From to (m)				Depths (m)	Time	Tools used
3	30.80	very slow seepage	-								
4	35.50	very slow seepage	-								
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Project UCL HS, London, W1T				Borehole		
					Project No. D0050-10				BH1		
					Carried out for UCL Properties Ltd				Sheet 4 of 5		

Borehole Log



Soil Mechanics

Drilled PH/IP Logged JB/SH Checked PM		Start 12/01/2011 End 24/02/2011	Equipment, Methods and Remarks Dando 3000 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 48.30 m depth. BH terminated early due to hard stratum and problems retrieving the cutting tool.		Depth from 0.00m 6.90m 25.90m 43.00m	to 6.90m 25.90m 43.00m 48.30m	Diameter 300mm 250mm 200mm 150mm	Casing Depth 1.20m 6.90m 26.00m 43.00m	Ground Level +26.33 mOD Coordinates E 529320.68 National Grid N 181833.71 Chainage	
Samples and Tests					Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 4)			Depth/Level (Thickness)	Legend	Backfill/ Instruments
40.35-40.75 40.35 40.35	SPT S D 120 D 121	50 (8,12/17,25,8 for 25mm)	26.00	damp	Very stiff fissured multicoloured red, brown, blue and grey CLAY. Fissures are extremely closely spaced, randomly orientated and matt. (LAMBETH GROUP)			40.35 m Locally sandy and silty.		
40.90	D 122									
41.40-41.85	U 123	100 blows 400 mm rec	26.00	damp	Very stiff grey mottled blueish grey very sandy CLAY. Sand is fine. (LAMBETH GROUP)			41.50 -15.17		
41.85-42.28 41.85 41.85	SPT S D 124 D 125	50 (8,17/27,23 for 50mm)	22/02/2011 26.00	1800 dry				41.85 m Locally sandy and silty.		
42.40	D 126		23/02/2011 26.00	0800 damp				(1.40)		
42.90-43.05 42.90-43.35 43.10-43.49 43.10	D 127 U 127A SPT S D 128	100 blows 150 mm rec 50 (10,15 for 40mm/ 50 for 50mm)	26.00 43.00	dry dry	Very stiff fissured grey slightly sandy slightly gravelly slightly silty CLAY. Fissures are closely spaced, randomly orientated and matt. Rare pockets of fine sand on fissure surfaces. (LAMBETH GROUP)			42.90 -16.57 43.00 -16.67		
43.90	D 129				Very dense greenish grey very clayey SAND. Sand is fine. (THANET SAND FORMATION)			43.90 m Becoming light grey. Locally sandy clay.		
44.40-44.82 44.40	SPT S D 130	50 (25,- for 70mm/50 for 50mm)	23/02/2011 43.00	1800 dry				(2.90)		
45.40	D 132		24/02/2011 43.00	0800 dry						
45.90-46.29 45.90 45.90-46.40	SPT C D 133 B 134	50 (25,-/42,8 for 10mm)	43.00	dry	Very dense grey very sandy, silty, slightly clayey GRAVEL with low cobble content. Gravel is subangular to subrounded fine to coarse of flint. Sand is fine. (THANET SAND FORMATION)			45.90 -19.57		
47.40-47.81 47.40	SPT S D 135	50 (25,-/50 for 35mm)	47.40	dry	Weak low density white CHALK recovered as silty gravel of chalk. (WHITE CHALK SUBGROUP)			46.60 -20.27		
48.30-48.72 48.30	SPT S D 136	50 (25,- for 70mm/50 for 50mm)	24/02/2011 47.40	1800 dry	EXPLORATORY HOLE ENDS AT 48.30 m			48.30 m Becoming weak high density white chalk.		SP
Depth	Type & No	Records	Date Casing	Time Water						
Groundwater Entries					Depth Related Remarks *			Chiselling		
No.	Struck (m)	Post strike behaviour	Depth sealed (m)		From to (m)			Depths (m) Time Tools used		
					44.50 46.00 Water added to assist boring.			44.00 -44.40 60 mins Chisel		
					48.00 48.30 Water added to assist boring.			45.90 -46.50 60 mins Chisel		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Project No. Carried out for			Borehole BH1 Sheet 5 of 5		
Scale 1:50 (c) ESGL www.esgl.co.uk 408.24 12/04/2011 12:02:23					Project UCL HS, London, W1T D0050-10 UCL Properties Ltd					

Borehole Log



Soil Mechanics

Drilled IP Logged JB Checked PM		Start 14/01/2011 End 18/01/2011		Equipment, Methods and Remarks D100 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring form 1.20 m to 11.95 m depth. Hole terminated at 11.95 m due to noise and vibrations.		Depth from 0.00m to 11.95m Diameter 150mm Casing Depth 6.00m		Ground Level +24.78 mOD Coordinates E 529284.07 National Grid N 181868.75 Chainage			
Samples and Tests						Strata					
Depth		Type & No	Records	Date Casing	Time Water	Description		Depth,Level (Thickness)	Legend	Backfill/ Instruments	
0.30 0.30 0.50		ES 1 B 2 D 3	4 Samples Taken			(MADE GROUND) CONCRETE PAVING SLAB (MADE GROUND) CONCRETE 0.30 m Locally with low cobble content.		0.05 +24.73 0.25 +24.53 (0.75)			
1.00 1.00 1.00-1.20 1.20-1.65 1.20		ES 4 D 5 B 6 SPT S D 7	4 Samples Taken N=15 (1,1/2,2,3,8)		dry	(MADE GROUND) Grey slightly clayey fine to coarse SAND and GRAVEL. Gravel is angular to subrounded fine to coarse of brick, concrete, flint and rare tile fragments. Occasional pockets of grey sandy clay (up to 30 mm) 1.00 m Rare unidentifiable white rock (up to 60 mm) 1.00 m Clayey very sandy gravel. 1.20 m Becoming dark grey mottled light grey and red brown.		1.00 +23.78 (1.10)			
1.70 2.00 2.20-2.65 2.20-2.70		D 8 ES 9 SPT C B 10	4 Samples Taken N=14 (1,2/2,3,4,5)	2.10 2.20	dry damp	(MADE GROUND) Dark grey very gravelly, sandy, slightly clayey SILT with low cobble content. Gravel is angular to subangular fine to coarse of brick, concrete, flint and rare tile fragments. Sand is fine to coarse. 2.00 m Pockets of orangish brown sand. 2.20-2.70 m Locally light grey, sandy gravelly clay.		2.10 +22.68 (1.10)			
2.70 3.00 3.20-3.65 3.20-3.70		D 11 ES 12 SPT C B 13	4 Samples Taken N=21 (2,2/3,5,6,7)	3.20	damp	Soft orangish brown slightly sandy slightly gravelly to gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of flint. (RIVER TERRACE DEPOSITS) 3.20-3.70 m Slightly clayey with low cobble content.		3.20 +21.58			
3.70 4.00 4.20-4.65 4.20-4.70		D 14 ES 15 SPT C B 16	4 Samples Taken N=23 (2,3/5,5,6,7)	4.20	3.50	Medium dense orangish brown sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint. Occasional pockets of clay (up to 75 mm). (RIVER TERRACE DEPOSITS) 4.20-4.70 m Slightly clayey and very sandy with low cobble content.		(2.70)			
4.70 5.00 5.20-5.64 5.20-5.70		D 17 ES 18 SPT C B 19	* 4 Samples Taken 50 (7,10/12,19,19, - for 60mm)	5.20	4.80	5.20-5.70 m Slightly clayey and very sandy.					
6.00 6.00 6.50-6.95		ES 20 D 21 U 22	4 Samples Taken 60 blows	6.00	damp dry	Firm brown slightly gravelly CLAY with occasional partings of orangish brown silt. Gravel is subangular to subrounded fine to medium of flint. (LONDON CLAY FORMATION) Stiff grey CLAY. (LONDON CLAY FORMATION)		5.90 +18.88 6.10 +18.68		SP	
7.00-7.45 7.00 7.00-7.45 7.50		SPT S D 23 D 24 D 25	N=23 (2,4/5,6,6,6)	6.00	dry	7.00 m Rare partings of sand and silt. Rare extremely closely spaced fissuring. 7.50 m Rare to occasional shell fragments (up to 5 mm)		(1.90)			
8.00-8.45 8.50-8.95 8.50 8.50-8.95 9.00		U 26 SPT S D 27 D 28 D 29	75 blows N=25 (3,4/6,6,6,7)	6.00	dry	Very stiff fissured grey CLAY. Fissures are extremely to very closely spaced, randomly orientated, smooth and matt. Occasional partings of fine sand and silt. (LONDON CLAY FORMATION) 8.50-8.95 m Slightly sandy and silty. 9.00 m Rare burrows infilled with light grey clay.		8.00 +16.78 (2.10)			
9.50-9.95		U 30	50 blows	6.00	dry						
Depth		Type & No	Records	Date Casing	Time Water	Stratum continues to 10.10 m					
Groundwater Entries						Depth Related Remarks *				Chiselling	
No.	Struck (m)	Post strike behaviour			Depth sealed (m)	From	to (m)	Depths (m)	Time	Tools used	
1	4.00	Rose to 3.50 m after 20 minutes. Slow infill			5.00	2.30	4.00	Water added to assist boring			
2	5.30	Rose to 4.80 m after 20 minutes. Slow infill			5.90	5.00	5.90	Water added to assist boring			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.						Project Project No. Carried out for				Borehole BH3 Sheet 1 of 2	
(c) ESGL www.esgl.co.uk 408.24 12/04/2011 12:02:29						Project UCL HS, London, W1T D0050-10 UCL Properties Ltd					
Scale 1:50											

Borehole Log



Soil Mechanics

Drilled IP Logged JB Checked PM		Start 14/01/2011 End 18/01/2011		Equipment, Methods and Remarks D100 CAT scanned prior to excavation. Hand excavated inspection pit from GL to 1.20 m depth. Cable percussive boring from 1.20 m to 11.95 m depth. Hole terminated at 11.95 m due to noise and vibrations.		Depth from 0.00m to 11.95m Diameter 150mm Casing Depth 6.00m		Ground Level +24.78 mOD Coordinates E 529284.07 National Grid N 181868.75 Chainage	
Samples and Tests					Strata				
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 1)		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
10.00-10.39 10.00 10.00-10.45 10.50	SPT S D 31 D 32 D 33	50 (5,10/25,25,-,- for 10mm)	6.00	damp	Very stiff fissured grey CLAY. Fissures are extremely to very closely spaced, randomly orientated, smooth and matt. Occasional partings of fine sand and silt. (LONDON CLAY FORMATION)		10.00 m Gravelly (mudstone). 10.10 +14.68 10.15 +14.63		
11.00-11.45	U 34	50 blows	6.00	damp	MUDSTONE recovered as light grey angular to subangular fine to coarse gravel. (LONDON CLAY FORMATION)		(1.80)		
11.50 11.50 11.50-11.95	D 35 D 36 SPT S	N=30 (4,6/6,7,8,9)	6.00	damp	Very stiff fissured grey CLAY. Fissures are extremely closely spaced, randomly orientated, smooth and matt. (LONDON CLAY FORMATION)		11.50 m Occasional partings of fine sand and silt. Occasional burrows infilled with light grey clay. Rare dark grey mottling on some fissure surfaces.	11.95 +12.83	
					EXPLORATORY HOLE ENDS AT 11.95 m				
Groundwater Entries					Depth Related Remarks *		Chiselling		
No.	Struck (m)	Post strike behaviour	Depth sealed (m)		From to (m)		Depths (m)	Time	Tools used
2	10.10	Very slow seepage					10.10 -10.15	30 mins	Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Project UCL HS, London, W1T Project No. D0050-10 Carried out for UCL Properties Ltd		Borehole BH3 Sheet 2 of 2		



D2 Chemical Data

TEST REPORT

SOIL SAMPLE ANALYSIS



Report No. EFS/110800 (Ver. 1)

Soil Mechanics
Glossop House
Hogwood Lane
Finchampstead
Wokingham
Berkshire
RG40 4QW

Site: Project UCL HS

The 7 samples described in this report were logged for analysis by Scientifics on 04-Feb-2011. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 21-Feb-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Table of SVOC Results (Pages 4 to 10)
Table of TPH (Si) banding (std) (Page 11)
GC-FID Chromatograms (Pages 12 to 25)
Table of VOC (HSA) Results (Pages 26 to 32)
Table of Asbestos ID & Quantification Analysis Results (Pages 33 to 34)
Table of Asbestos Screening Results (Page 35)
Table of Additional Report Notes (Page 36)
Table of Method Descriptions (Page 37)
Table of Report Notes (Page 38)

On behalf of
Scientifics :
Andrew Timms

A handwritten signature in black ink, appearing to read 'Andrew Timms', written over the printed name.

Operations Manager

Date of Issue: 21-Feb-2011

Tests marked '^' have been subcontracted to another laboratory.

Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

[illegible]

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 10.30
LIMS ID Number: CL1103767
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	90
Naphthalene-d8	91
Acenaphthene-d10	96
Phenanthrene-d10	99
Chrysene-d12	92
Perylene-d12	89

Surrogates	% Rec
2-Fluorophenol	94
Phenol-d5	94
Nitrobenzene-d5	92
2-Fluorobiphenyl	86
2,4,6-Tribromophenol	78
Terphenyl-d14	94

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 4.1.00
LIMS ID Number: CL1103768
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	95
Naphthalene-d8	96
Acenaphthene-d10	101
Phenanthrene-d10	103
Chrysene-d12	91
Perylene-d12	88

Surrogates	% Rec
2-Fluorophenol	99
Phenol-d5	94
Nitrobenzene-d5	90
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	86
Terphenyl-d14	93

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 9 2.00
LIMS ID Number: CL1103769
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	88
Naphthalene-d8	88
Acenaphthene-d10	92
Phenanthrene-d10	95
Chrysene-d12	86
Perylene-d12	84

Surrogates	% Rec
2-Fluorophenol	101
Phenol-d5	94
Nitrobenzene-d5	93
2-Fluorobiphenyl	88
2,4,6-Tribromophenol	88
Terphenyl-d14	95

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 12 3.00
LIMS ID Number: CL1103770
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	95
Naphthalene-d8	96
Acenaphthene-d10	100
Phenanthrene-d10	104
Chrysene-d12	98
Perylene-d12	94

Surrogates	% Rec
2-Fluorophenol	95
Phenol-d5	90
Nitrobenzene-d5	87
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	78
Terphenyl-d14	91

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 15 4.00
LIMS ID Number: CL1103771
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	94
Naphthalene-d8	95
Acenaphthene-d10	99
Phenanthrene-d10	101
Chrysene-d12	94
Perylene-d12	90

Surrogates	% Rec
2-Fluorophenol	99
Phenol-d5	93
Nitrobenzene-d5	89
2-Fluorobiphenyl	87
2,4,6-Tribromophenol	80
Terphenyl-d14	95

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 18 5.00
LIMS ID Number: CL1103772
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	104
Naphthalene-d8	104
Acenaphthene-d10	108
Phenanthrene-d10	111
Chrysene-d12	106
Perylene-d12	102

Surrogates	% Rec
2-Fluorophenol	94
Phenol-d5	94
Nitrobenzene-d5	87
2-Fluorobiphenyl	84
2,4,6-Tribromophenol	74
Terphenyl-d14	91

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 20 6.00
LIMS ID Number: CL1103773
Job Number: S11_0800

Date Booked in: 04-Feb-11
Date Extracted: 17-Feb-11
Date Analysed: 18-Feb-11

Matrix: Soil
Ext Method: Ultrasonic
Operator: SO/DMB
Directory/Quant File: 17SVOC.MS16\ 0217_CCC4.D
QC Batch Number: 305
Multiplier: 0.2
Dilution Factor: 1
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/kg	% Fit
Phenol	108-95-2	-	< 2.0	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.5	-
2-Chlorophenol	95-57-8	-	< 2.0	-
1,3-Dichlorobenzene	541-73-1	-	< 0.5	-
1,4-Dichlorobenzene	106-46-7	-	< 0.5	-
Benzyl alcohol	100-51-6	-	< 0.5	-
1,2-Dichlorobenzene	95-50-1	-	< 0.5	-
2-Methylphenol	95-48-7	-	< 0.5	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.5	-
Hexachloroethane	67-72-1	-	< 0.5	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.5	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 2.0	-
Nitrobenzene	98-95-3	-	< 0.5	-
Isophorone	78-59-1	-	< 0.5	-
2-Nitrophenol	88-75-5	-	< 2.0	-
2,4-Dimethylphenol	105-67-9	-	< 2.0	-
Benzoic Acid	65-85-0 *	-	< 10.0	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.5	-
2,4-Dichlorophenol	120-83-2	-	< 2.0	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.5	-
Naphthalene	91-20-3	-	< 0.2	-
4-Chlorophenol	106-48-9	-	< 2.0	-
4-Chloroaniline	106-47-8 *	-	< 0.5	-
Hexachlorobutadiene	87-68-3	-	< 0.5	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.5	-
2-Methylnaphthalene	91-57-6	-	< 0.2	-
1-Methylnaphthalene	90-12-0	-	< 0.2	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.5	-
2,4,6-Trichlorophenol	88-06-2	-	< 2.0	-
2,4,5-Trichlorophenol	95-95-4	-	< 2.0	-
2-Chloronaphthalene	91-58-7	-	< 0.2	-
Biphenyl	92-52-4	-	< 0.2	-
Diphenyl ether	101-84-8	-	< 0.2	-
2-Nitroaniline	88-74-4	-	< 0.5	-
Acenaphthylene	208-96-8	-	< 0.2	-
Dimethylphthalate	131-11-3	-	< 0.5	-
2,6-Dinitrotoluene	606-20-2	-	< 0.5	-
Acenaphthene	83-32-9	-	< 0.2	-
3-Nitroaniline	99-09-2	-	< 0.5	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/kg	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 1.0	-
Dibenzofuran	132-64-9	-	< 0.5	-
4-Nitrophenol	100-02-7	-	< 5.0	-
2,4-Dinitrotoluene	121-14-2	-	< 0.5	-
Fluorene	86-73-7	-	< 0.2	-
Diethylphthalate	84-66-2	-	< 0.5	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.5	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 5.0	-
4-Nitroaniline	100-01-6	-	< 0.5	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.5	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.5	-
Hexachlorobenzene	118-74-1	-	< 0.5	-
Pentachlorophenol	87-86-5	-	< 5.0	-
Phenanthrene	85-01-8	-	< 0.2	-
Anthracene	120-12-7	-	< 0.2	-
Di-n-butylphthalate	84-74-2	-	< 0.5	-
Fluoranthene	206-44-0	-	< 0.2	-
Pyrene	129-00-0	-	< 0.2	-
Butylbenzylphthalate	85-68-7	-	< 0.5	-
Benzo[a]anthracene	56-55-3	-	< 0.2	-
Chrysene	218-01-9	-	< 0.2	-
3,3'-Dichlorobenzidine	91-94-1	-	< 2.0	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.5	-
Di-n-octylphthalate	117-84-0	-	< 0.2	-
Benzo[b]fluoranthene	205-99-2	-	< 0.2	-
Benzo[k]fluoranthene	207-08-9	-	< 0.2	-
Benzo[a]pyrene	50-32-8	-	< 0.2	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.2	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.2	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.2	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	97
Naphthalene-d8	98
Acenaphthene-d10	100
Phenanthrene-d10	103
Chrysene-d12	97
Perylene-d12	90

Surrogates	% Rec
2-Fluorophenol	94
Phenol-d5	93
Nitrobenzene-d5	85
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	74
Terphenyl-d14	90

ALIPHATIC / AROMATIC FRACTION BY GC/FID

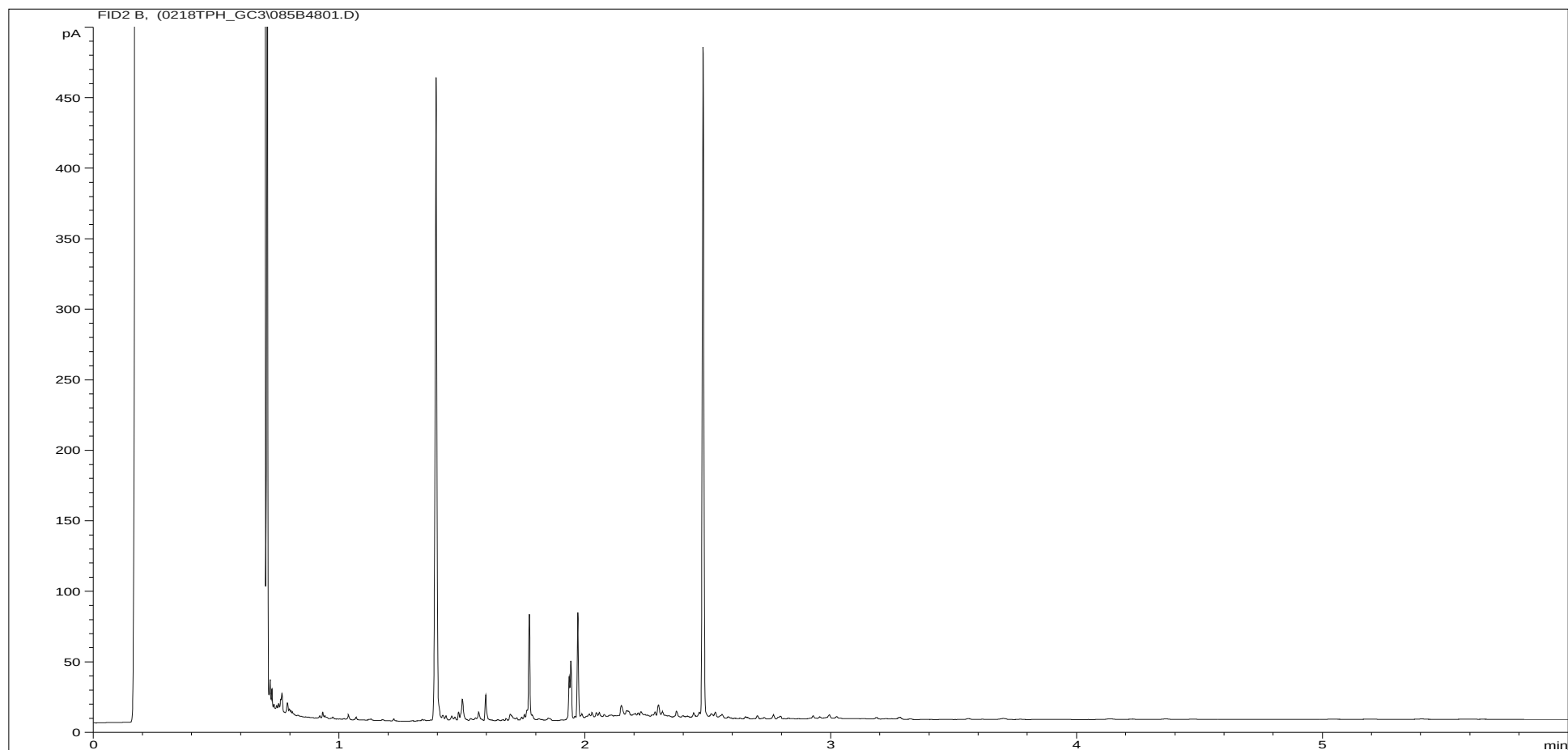
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Job Number:	S11_0800
QC Batch Number:	110307
Directory:	D:\TES\DATA\Y2011\FEB2011\02
Method:	Ultra Sonic

Separation: Silica gel
Eluents: Hexane, DCM

Matrix:	Soil
Date Booked in	04-Feb-11
Date Extracted:	17-Feb-11
Date Analysed:	18-Feb-11

[illegible]

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID: CL1103767ALI

Multiplier: 15.58

Dilution: 1

Acquisition Method: 5UL_RUNF.M

Acquisition Date/Time: 18-Feb-11

Datafile: D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\085B4801.D

Job Number: S11_0800

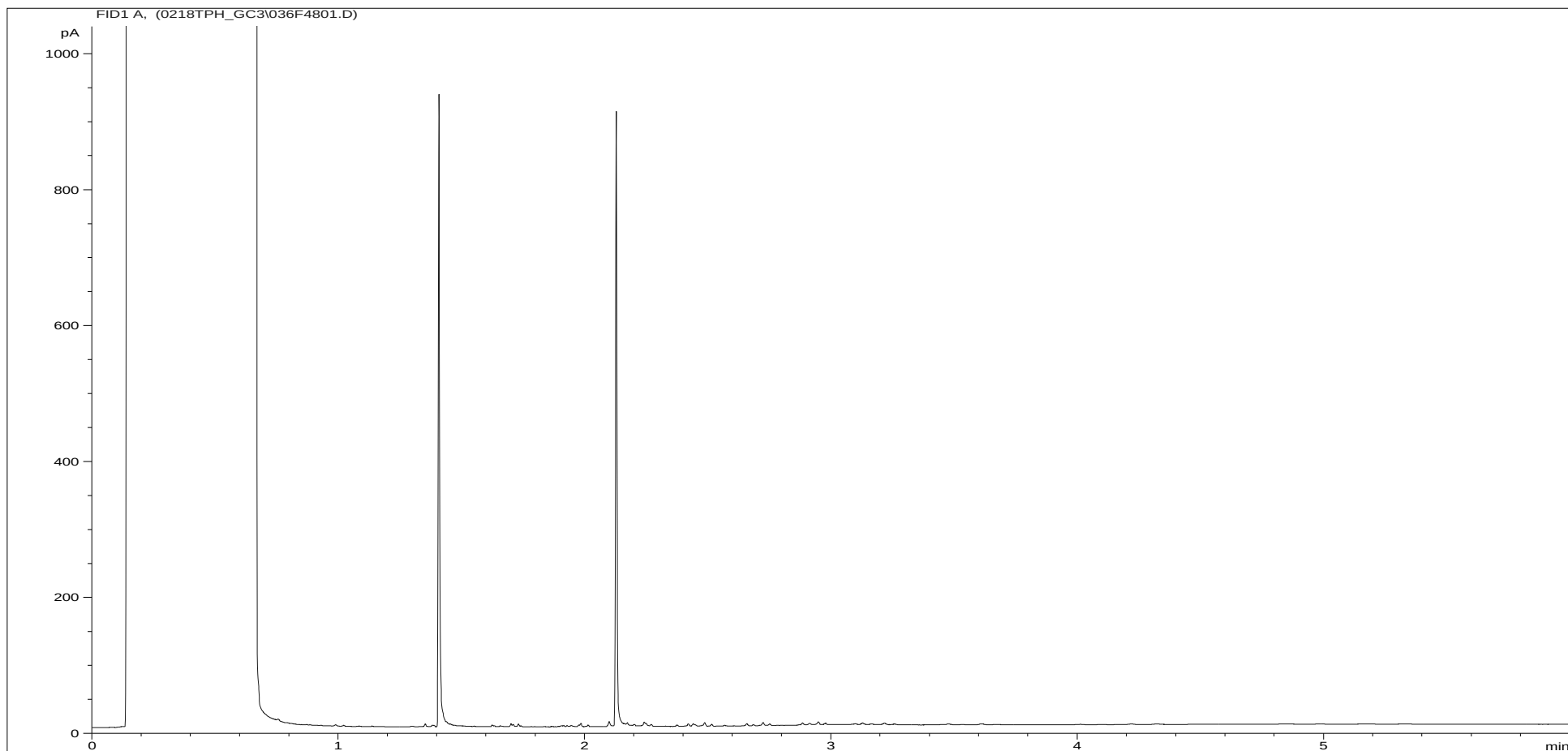
Client: Soil Mechanics

Site: Project UCL HS

Client Sample Ref: BH3 ES 1 0.30

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID: CL1103767ARO

Multiplier: 11.4

Dilution: 1

Acquisition Method: 5UL_RUNF.M

Acquisition Date/Time: 18-Feb-11

Datafile: D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\036F4801.D

Job Number: S11_0800

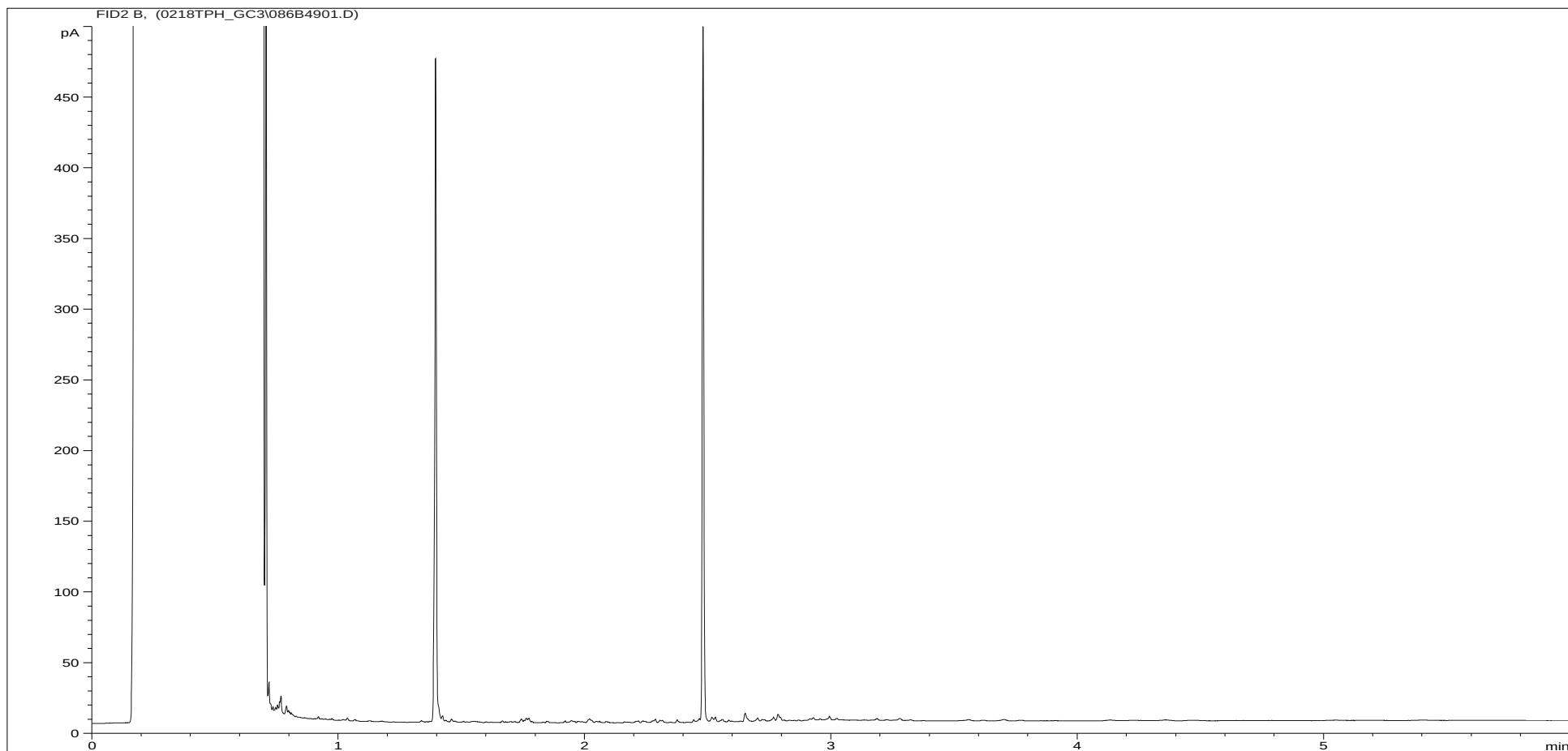
Client: Soil Mechanics

Site: Project UCL HS

Client Sample Ref: BH3 ES 1 0.30

Where individual results are flagged see report notes for status.

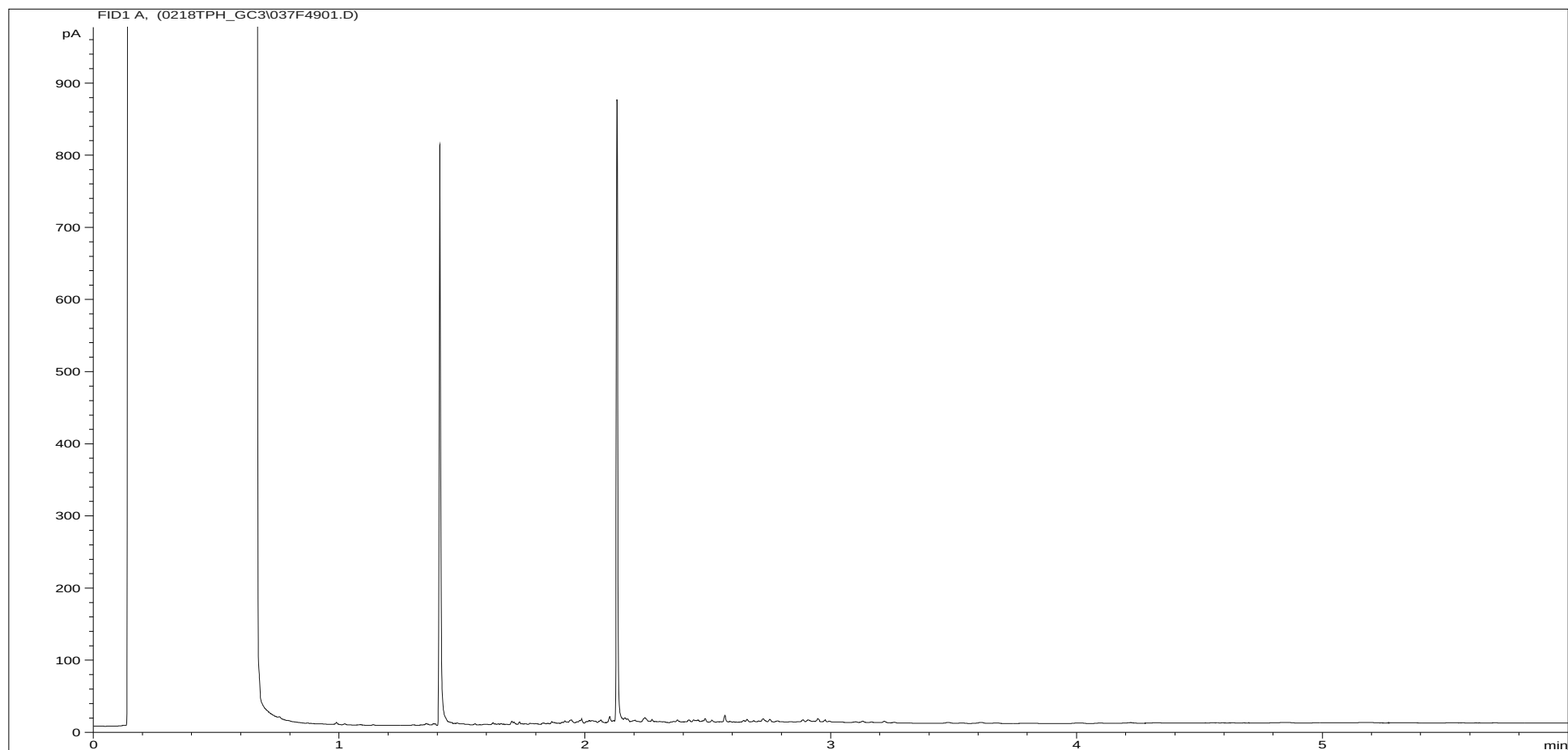
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103768ALI	Job Number:	S11_0800
Multiplier:	16.4	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 4 1.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\086B4901.D		

Where individual results are flagged see report notes for status.

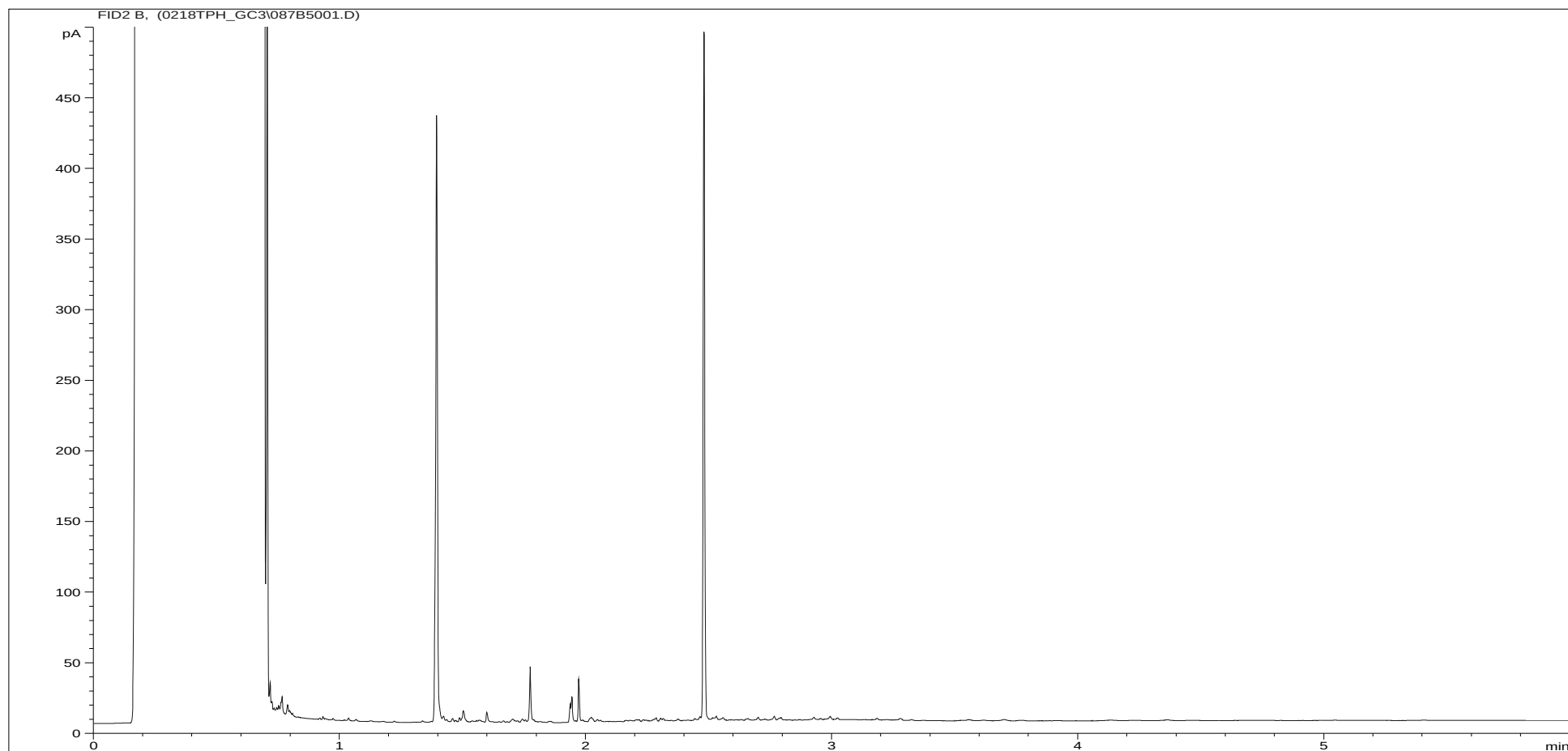
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1103768ARO	Job Number:	S11_0800
Multiplier:	12.4	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 4 1.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\037F4901.D		

Where individual results are flagged see report notes for status.

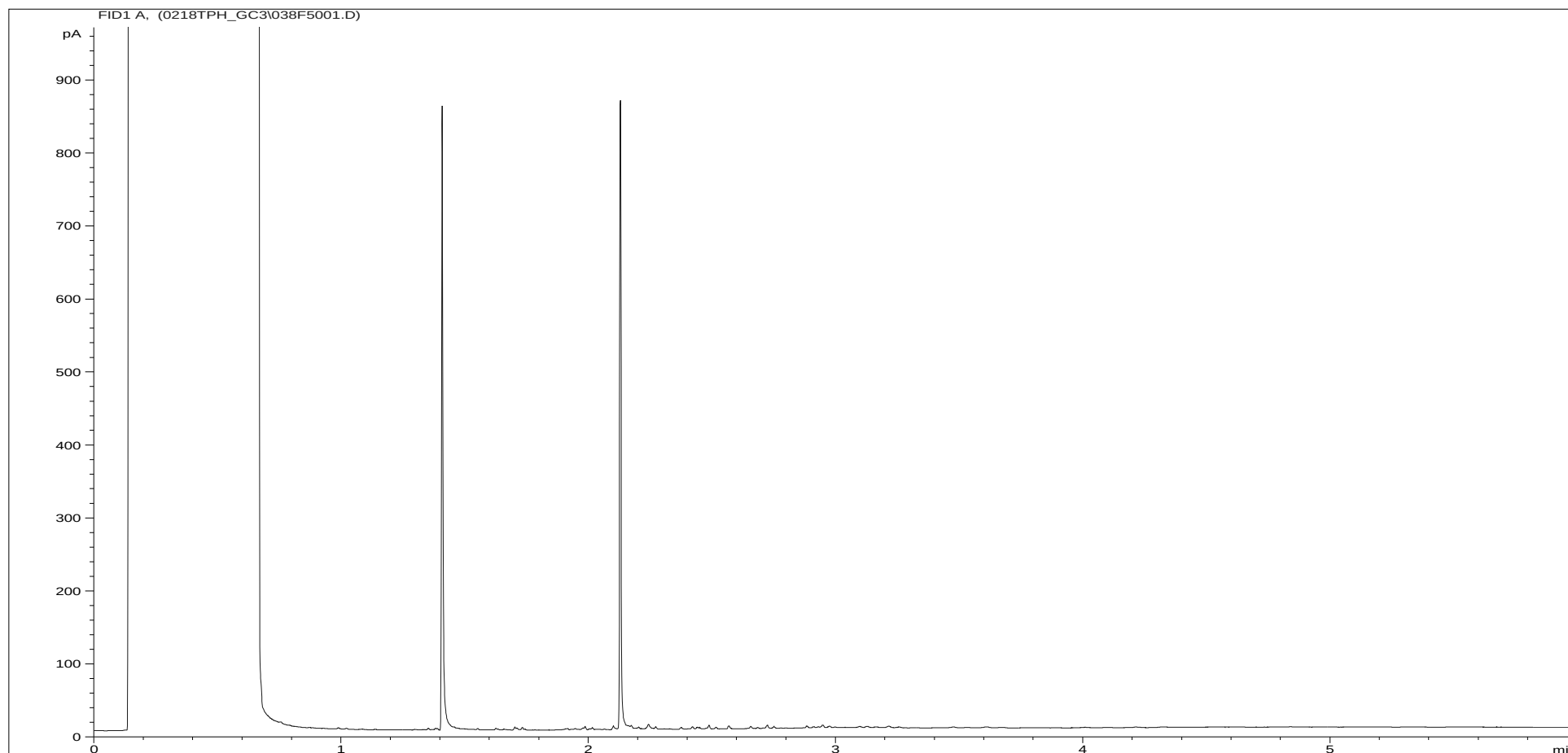
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103769ALI	Job Number:	S11_0800
Multiplier:	14.76	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 9 2.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\087B5001.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID: CL1103769ARO

Multiplier: 11.16

Dilution: 1

Acquisition Method: 5UL_RUNF.M

Acquisition Date/Time: 18-Feb-11

Datafile: D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\038F5001.D

Job Number: S11_0800

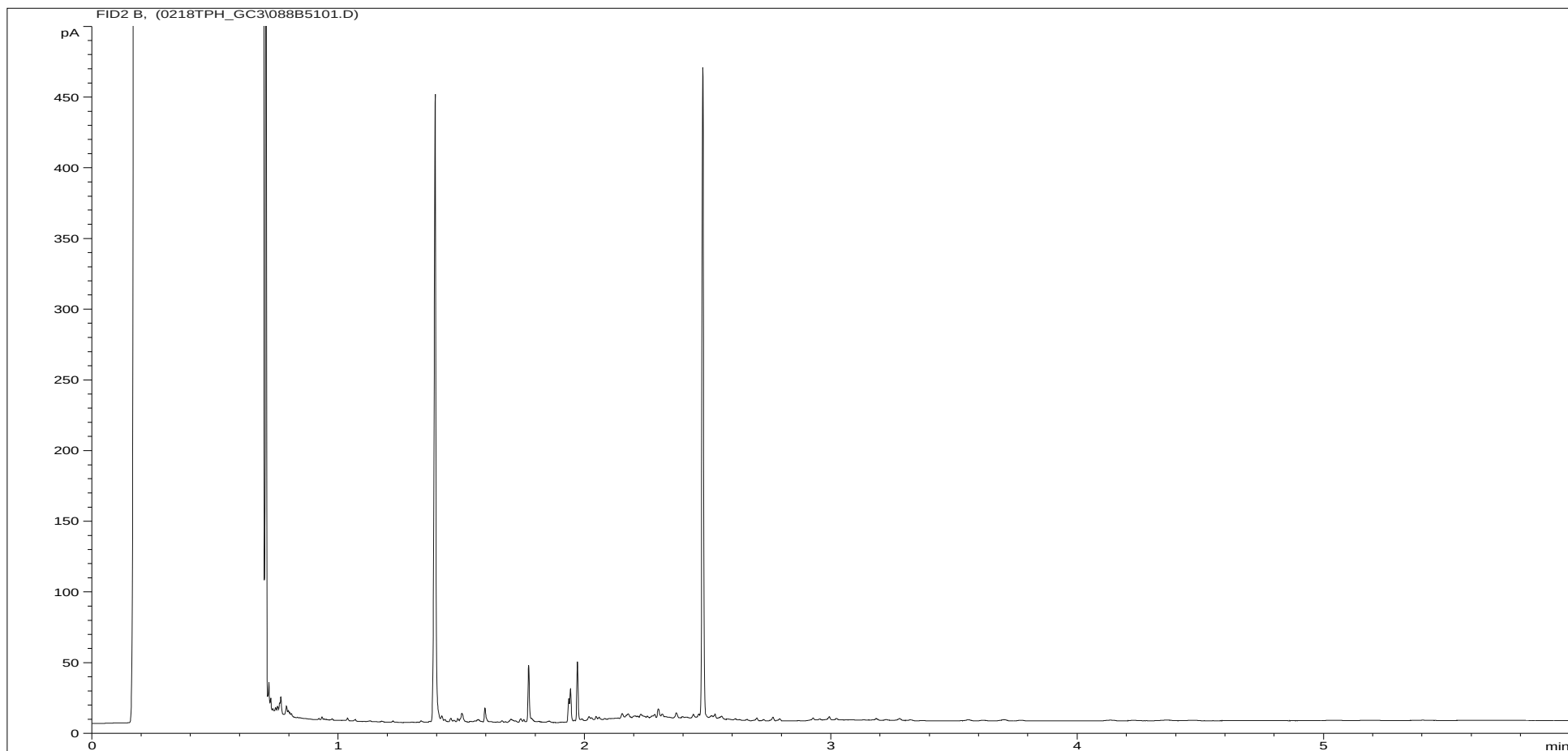
Client: Soil Mechanics

Site: Project UCL HS

Client Sample Ref: BH3 ES 9 2.00

Where individual results are flagged see report notes for status.

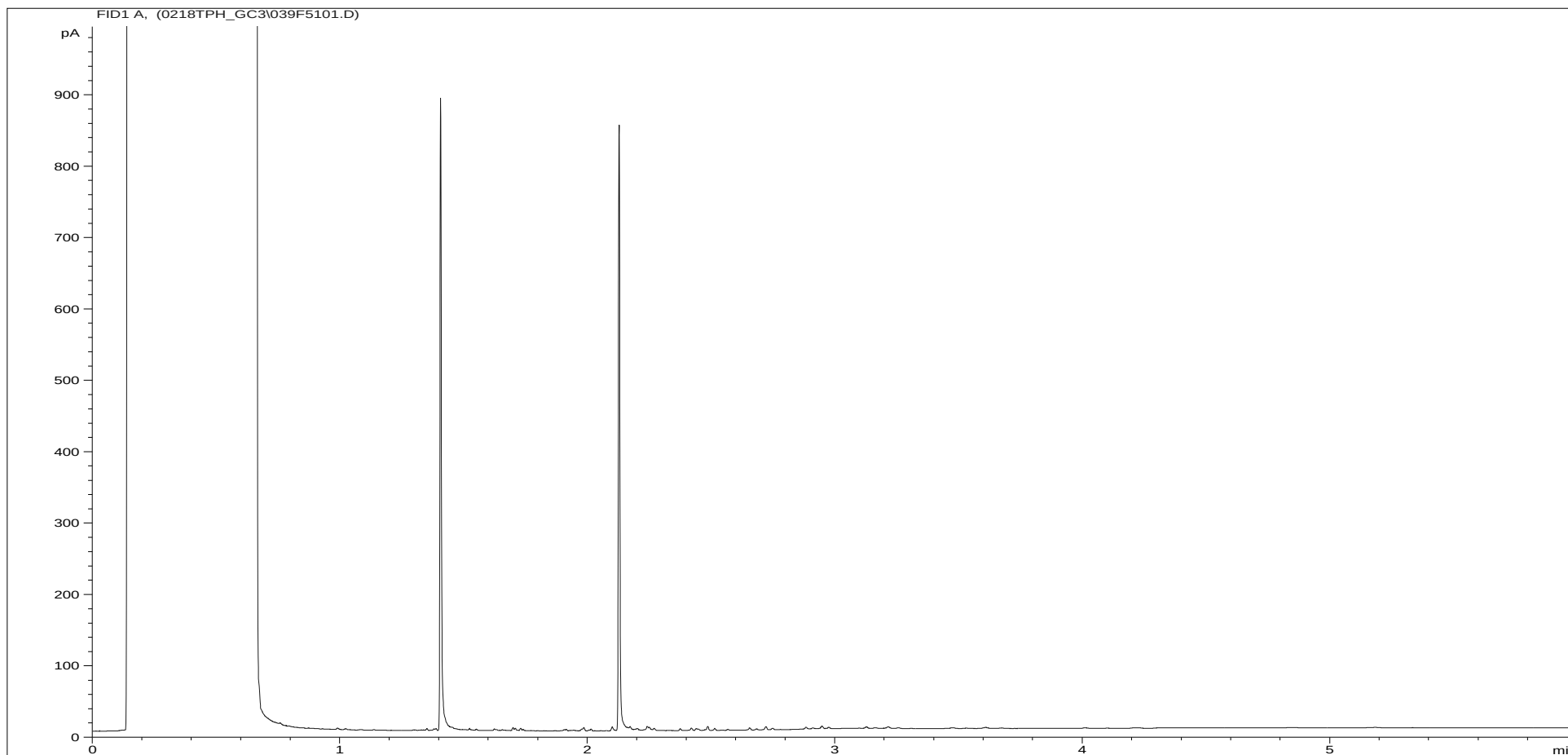
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103770ALI	Job Number:	S11_0800
Multiplier:	17.22	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 12 3.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\088B5101.D		

Where individual results are flagged see report notes for status.

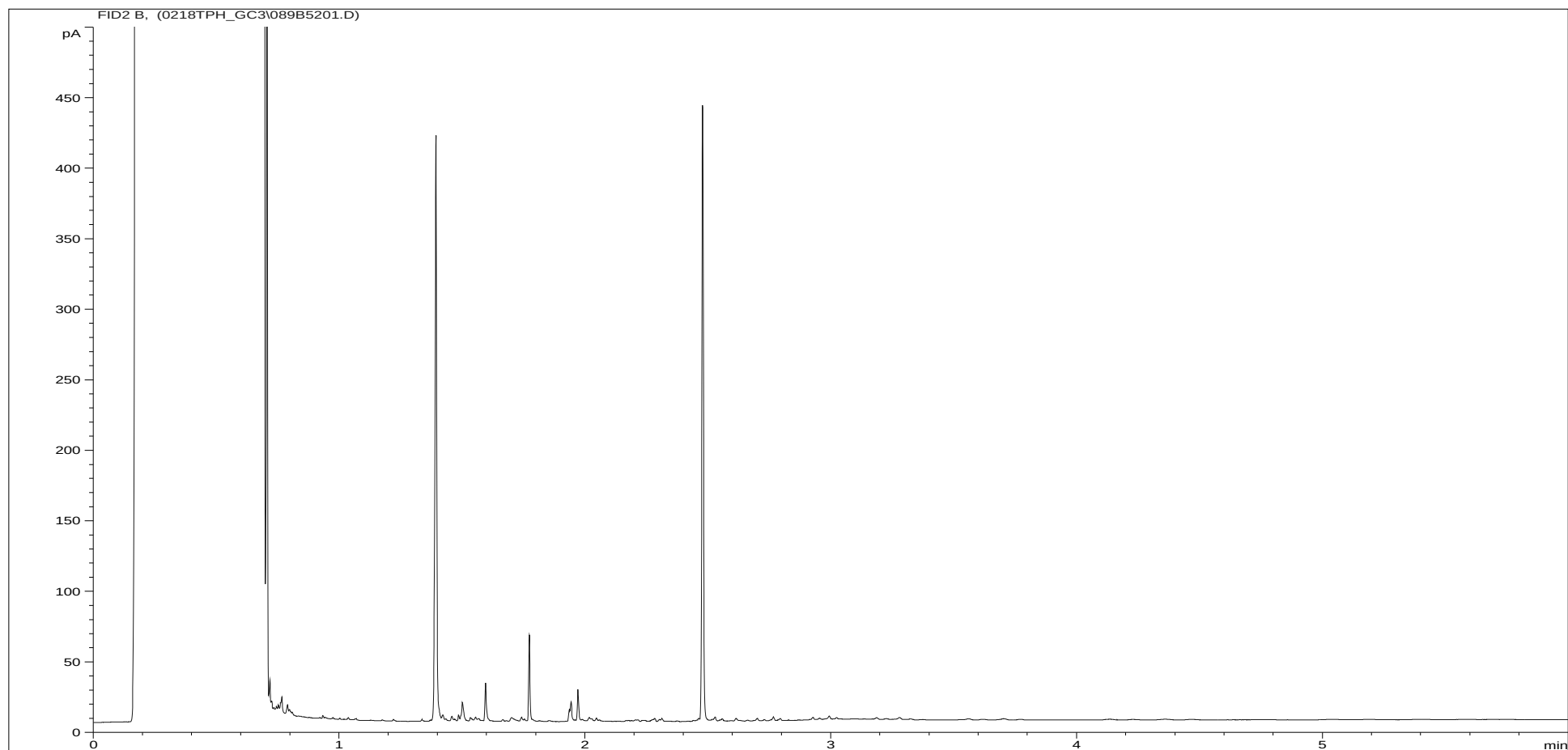
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1103770ARO	Job Number:	S11_0800
Multiplier:	12.6	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 12 3.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\039F5101.D		

Where individual results are flagged see report notes for status.

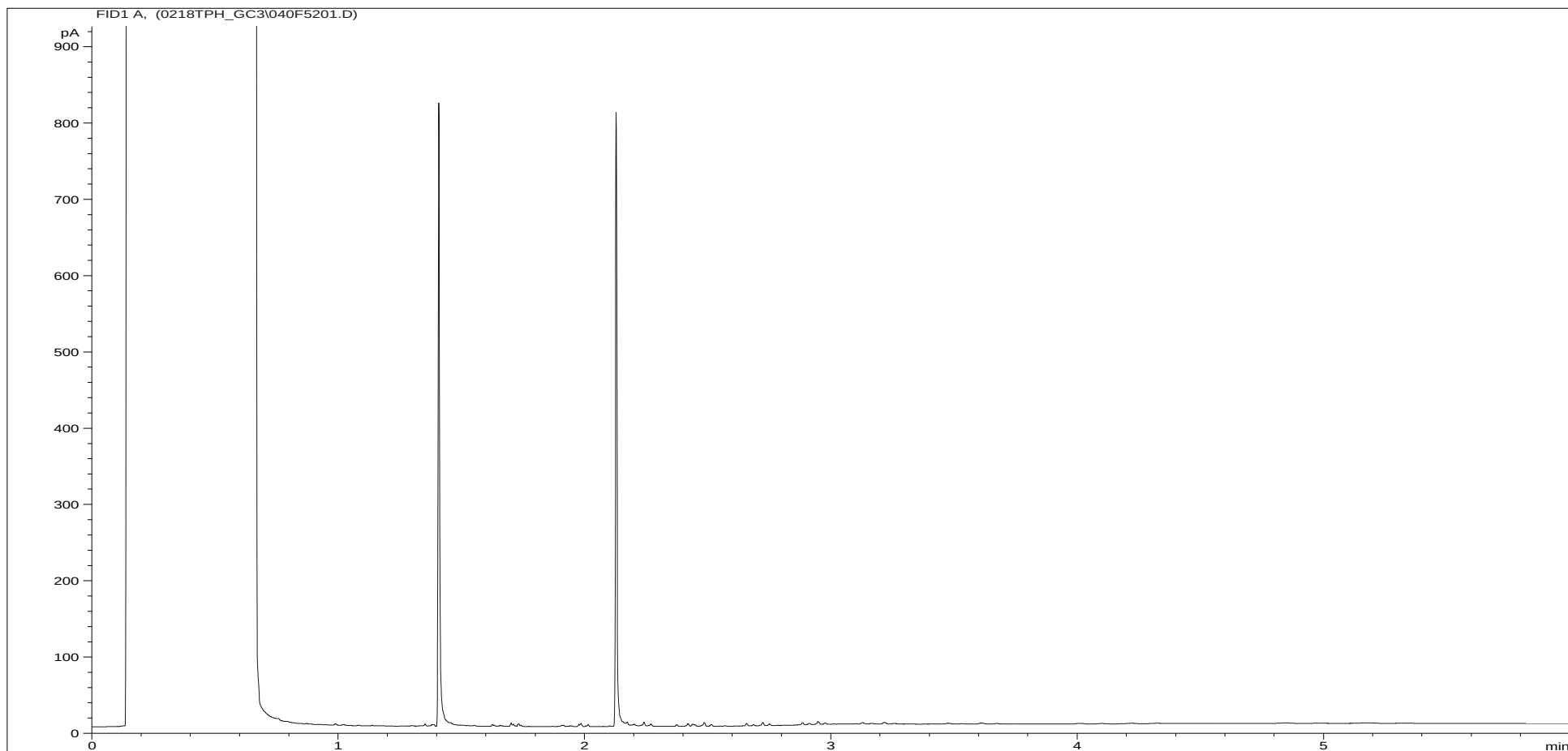
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103771ALI	Job Number:	S11_0800
Multiplier:	16.4	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 15 4.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\089B5201.D		

Where individual results are flagged see report notes for status.

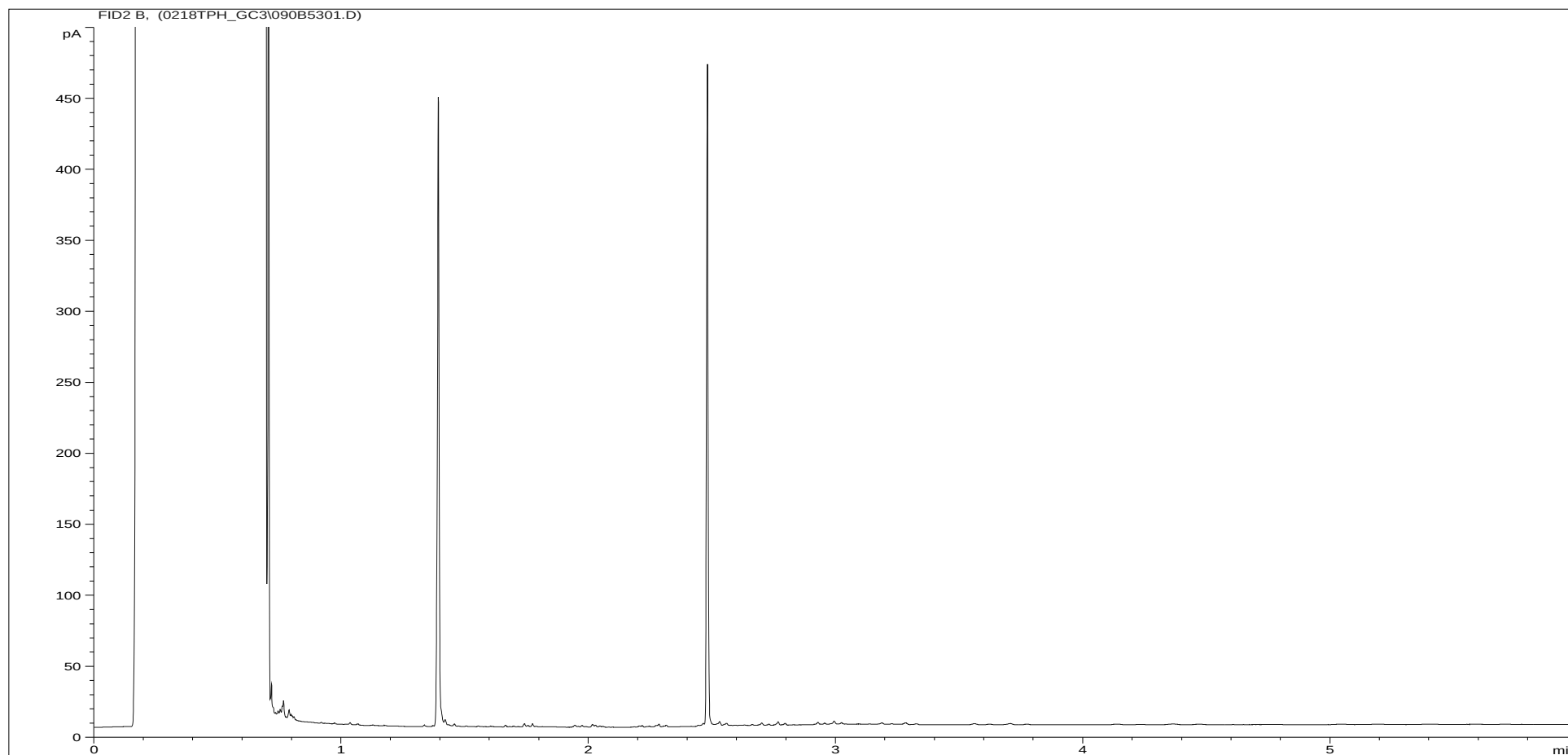
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1103771ARO	Job Number:	S11_0800
Multiplier:	12.4	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 15 4.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\040F5201.D		

Where individual results are flagged see report notes for status.

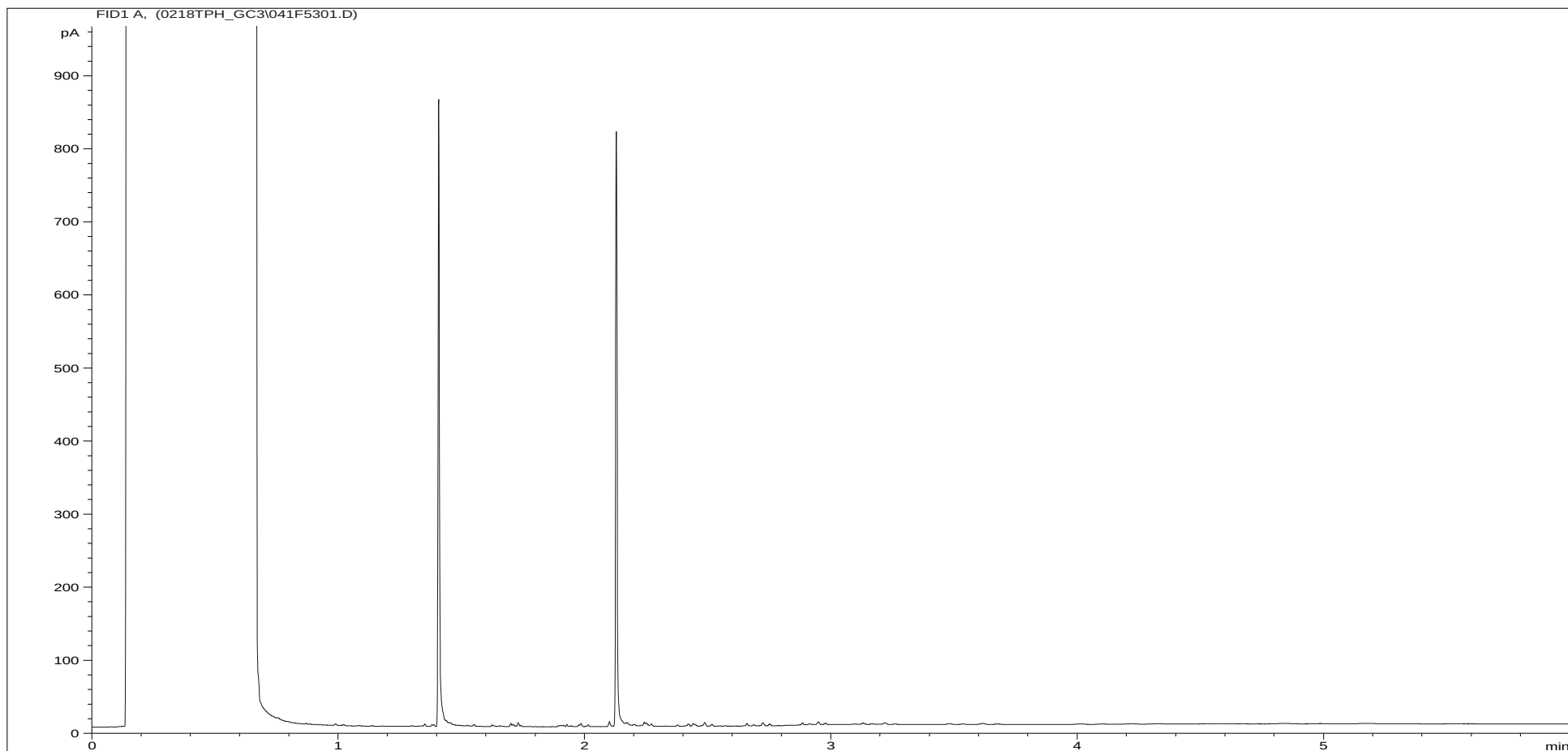
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103772ALI	Job Number:	S11_0800
Multiplier:	17.22	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 18 5.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\090B5301.D		

Where individual results are flagged see report notes for status.

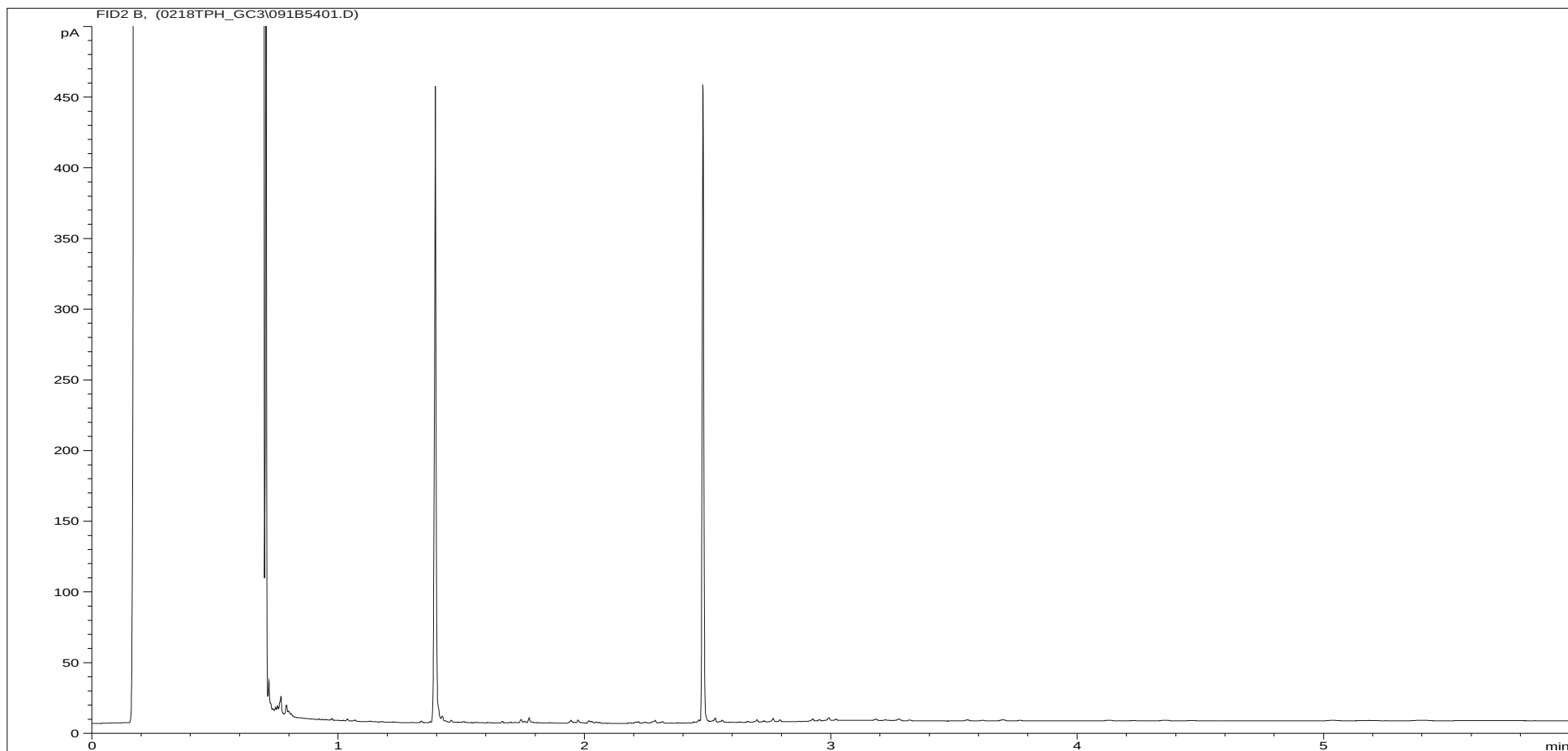
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1103772ARO	Job Number:	S11_0800
Multiplier:	13.02	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 18 5.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\041F5301.D		

Where individual results are flagged see report notes for status.

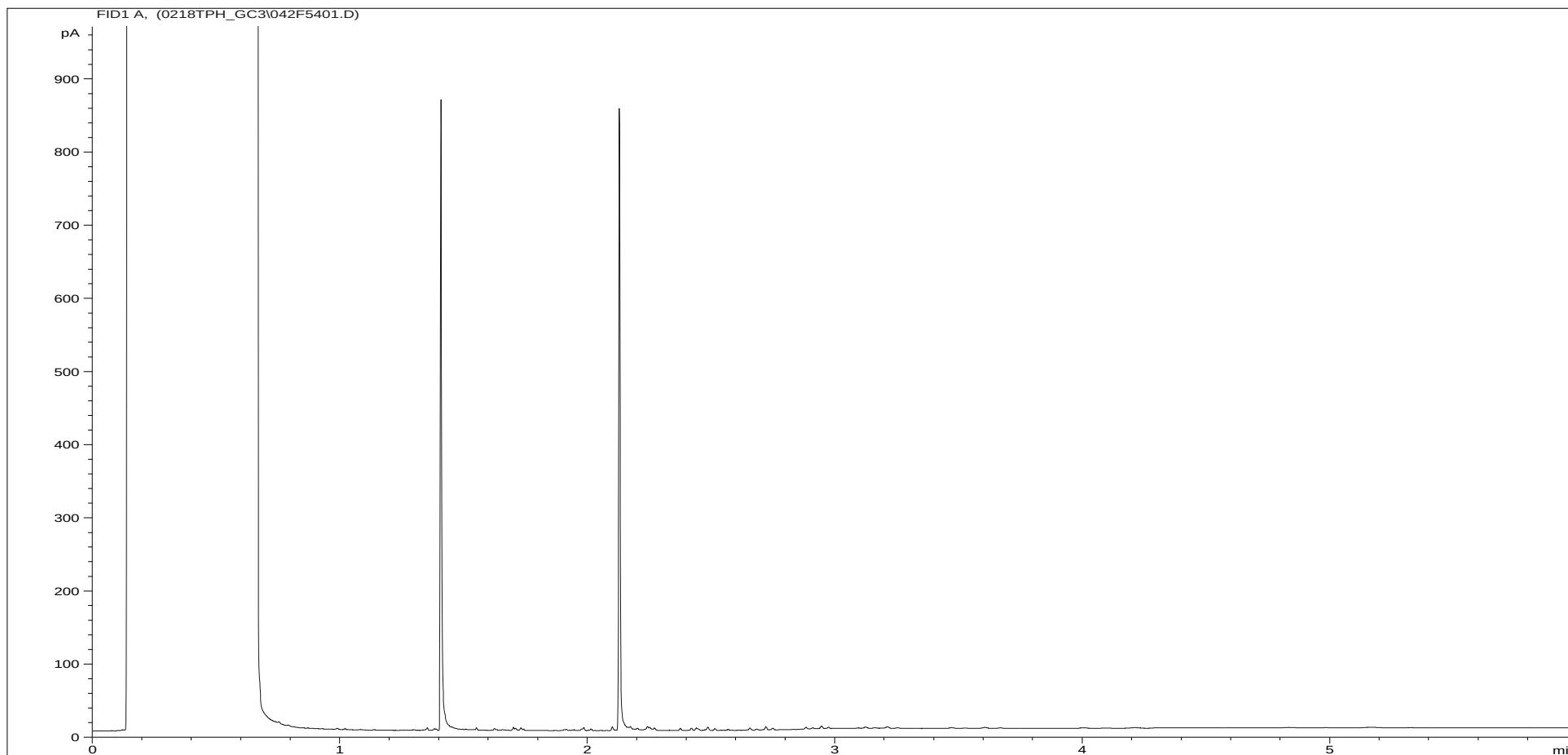
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	CL1103773ALI	Job Number:	S11_0800
Multiplier:	17.64	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 20 6.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\091B5401.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	CL1103773ARO	Job Number:	S11_0800
Multiplier:	13.02	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	5UL_RUNF.M	Client Sample Ref:	BH3 ES 20 6.00
Acquisition Date/Time:	18-Feb-11		
Datafile:	D:\TES\DATA\Y2011\FEB2011\0218TPH_GC3\042F5401.D		

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 1 0.30
LIMS ID Number: CL1103767
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 11

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	4.34	2	M
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	4.61	1	M
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	5.62	3	M
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	5.66	6	M

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	5.80	3	M
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 1	-
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	7.17	4	M
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	7.29	6	M
1,2,3-Trichlorobenzene	87-61-6 **	7.42	4	M

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	95	Dibromofluoromethane	103
1,4-Difluorobenzene	4.49	92	Toluene-d8	98
Chlorobenzene-d5	5.60	80		
Bromofluorobenzene	5.99	68		
1,4-Dichlorobenzene-d4	6.40	54		
Naphthalene-D8	7.28	21		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 4 1.00
LIMS ID Number: CL1103768
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 12

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	4.09	1	M
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	4.61	3	M
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	5.62	3	M
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	5.66	6	M

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	5.80	3	M
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	6.24	1	M
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	6.38	1	M
1,4-Dichlorobenzene	106-46-7	6.41	1	M
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	6.55	1	M
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	7.17	6	M
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	7.30	6	M
1,2,3-Trichlorobenzene	87-61-6 **	7.42	5	M

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	80	Dibromofluoromethane	103
1,4-Difluorobenzene	4.49	71	Toluene-d8	95
Chlorobenzene-d5	5.60	53		
Bromofluorobenzene	5.99	39		
1,4-Dichlorobenzene-d4	6.40	28		
Naphthalene-D8	7.28	12		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 9 2.00
LIMS ID Number: CL1103769
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 14

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	4.61	2	M
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	5.62	3	M
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	5.66	6	M

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	5.81	3	M
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	6.24	1	M
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	6.38	1	M
1,4-Dichlorobenzene	106-46-7	6.41	2	M
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	6.55	1	M
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	7.16	10	M
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	7.30	12	M
1,2,3-Trichlorobenzene	87-61-6 **	7.42	10	M

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	90	Dibromofluoromethane	106
1,4-Difluorobenzene	4.49	88	Toluene-d8	95
Chlorobenzene-d5	5.60	72		
Bromofluorobenzene	5.99	55		
1,4-Dichlorobenzene-d4	6.40	41		
Naphthalene-D8	7.28	16		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 12 3.00
LIMS ID Number: CL1103770
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 15

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 1	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 2	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 4	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	-	< 2	-
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 1	-
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	-	< 3	-
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6 **	-	< 3	-

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.14	101	Dibromofluoromethane	104
1,4-Difluorobenzene	4.49	101	Toluene-d8	99
Chlorobenzene-d5	5.60	101		
Bromofluorobenzene	6.00	99		
1,4-Dichlorobenzene-d4	6.40	95		
Naphthalene-D8	7.28	97		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 15 4.00
LIMS ID Number: CL1103771
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 16

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 1	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 2	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	5.66	4	M

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	5.80	2	M
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 1	-
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	-	< 3	-
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6 **	-	< 3	-

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	99	Dibromofluoromethane	103
1,4-Difluorobenzene	4.49	98	Toluene-d8	98
Chlorobenzene-d5	5.60	91		
Bromofluorobenzene	5.99	81		
1,4-Dichlorobenzene-d4	6.40	68		
Naphthalene-D8	7.28	41		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 18 5.00
LIMS ID Number: CL1103772
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 17

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 1	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 2	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 4	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	-	< 2	-
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 1	-
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	-	< 3	-
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6 **	-	< 3	-

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	100	Dibromofluoromethane	103
1,4-Difluorobenzene	4.49	99	Toluene-d8	100
Chlorobenzene-d5	5.60	100		
Bromofluorobenzene	5.99	97		
1,4-Dichlorobenzene-d4	6.40	95		
Naphthalene-D8	7.28	97		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ES 20 6.00
LIMS ID Number: CL1103773
Job Number: S11_0800

Directory/Quant file: 217VOC_MS19\ Initial Calibration
Date Booked in: 04-Feb-11
Date Analysed: 17-Feb-11
Operator: TP
Matrix: Soil
Method: Headspace
Multiplier: 1
Position: 18

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
Dichlorodifluoromethane	75-71-8 **	-	< 1	-
Chloromethane	74-87-3 *	-	< 3	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9	-	< 1	-
Chloroethane	75-00-3	-	< 2	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-48*	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
MTBE	1634-04-4	-	< 1	-
2,2-Dichloropropane	594-20-7	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 2	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 1	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 1	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4*	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5	-	< 1	-
Toluene	108-88-3	-	< 5	-
trans 1,3-Dichloropropene	10061-02-6	-	< 1	-
1,1,2-Trichloroethane	79-00-5*	-	< 1	-
Tetrachloroethene	127-18-4	-	< 3	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 2	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 4	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/kg	% Fit
o-Xylene	95-47-6	-	< 2	-
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8 *	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 1	-
1,2-Dibromo-3-chloropropane	96-12-8	-	< 1	-
1,2,4-Trichlorobenzene	120-82-1 **	-	< 3	-
Hexachlorobutadiene	87-68-3 **	-	< 2	-
Naphthalene	91-20-3 **	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6 **	-	< 3	-

Compounds marked * are not MCERTS accredited
Compounds marked ** are not UKAS or Mcerts accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	4.15	100	Dibromofluoromethane	106
1,4-Difluorobenzene	4.49	99	Toluene-d8	99
Chlorobenzene-d5	5.60	98		
Bromofluorobenzene	5.99	97		
1,4-Dichlorobenzene-d4	6.40	92		
Naphthalene-D8	7.28	83		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.



WORKING FOR A HEALTHY FUTURE

CERTIFICATE OF ANALYSIS

ANALYSIS REQUESTED BY: Rebecca Clamp
Scientifics
PO Box 100
Burton-on-Trent
Staffordshire
DE15 0XD

CONTRACT NO: 23738

PROJECT NO: 610

DATE OF ISSUE: 15.02.11

DATE SAMPLES RECEIVED: 11.02.11

DATE SAMPLES ANALYSED: 14.02.11

SAMPLE DESCRIPTION: Seven soil/loose aggregate samples each weighing approximately 0.7-1.8kg

ANALYSIS REQUESTED: Qualitative and quantitative analysis of soil/loose aggregate samples for mass determination of asbestos.

METHODS:

Qualitative - The samples were analysed qualitatively for asbestos by polarised light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative - The analysis was carried out using our documented in-house method based on HSE Contract Research Report No. 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies *et al*, 1996) and HSG 248. Our method includes initial examination of the entire sample, detailed analysis of a representative sub-sample and quantification by hand picking/weighing and/or fibre counting/sizing as appropriate.

RESULTS:

Initial Screening

No asbestos was detected in any of the seven soil samples by stereo-binocular and polarised light microscopy.

A summary of results is given in Table 1.

Page 1 of 2

RESEARCH CONSULTING SERVICES

Multi-disciplinary specialists in Occupational and Environmental Health and Hygiene

IOM CONSULTING LIMITED, Research Avenue North, Riccarton, Edinburgh, EH14 4AP, United Kingdom
Telephone: +44 (0)131 449 8000, Facsimile: +44 (0)131 449 8084, Email: iom@iom-world.org

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www.iom-world.org



CONTRACT NO: 23738
PROJECT NO: 610
DATE OF ISSUE: 15.02.11

RESULTS: (cont.)

Table 1: Qualitative Results

IOM sample number	Client sample number	ACM type detected	PLM result
S8603	CL/1103767	-	No asbestos detected
S8604	CL/1103768	-	No asbestos detected
S8605	CL/1103769	-	No asbestos detected
S8606	CL/1103770	-	No asbestos detected
S8607	CL/1103771	-	No asbestos detected
S8608	CL/1103772	-	No asbestos detected
S8609	CL/1103773	-	No asbestos detected

Our detection limit for this method is 0.001%.

COMMENTS:

IOM Consulting cannot accept responsibility for samples that have been incorrectly collected or despatched by external clients.

Any opinions and interpretations expressed herein are outwith the scope of our UKAS accreditation.



Authorised by:

S Clark
Mineralogy Section Manager

Additional Report Notes

[illegible]

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	ICPACIDS	Air Dried	Determination of Total Sulphate in soil samples by Hydrochloric Acid extraction followed by ICPOES detection
Soil	ICPMSS	Air Dried	Determination of Metals in soil samples by aqua regia digestion followed by ICPMS
Soil	PHSOIL	As Received	Determination of pH of 2.5:1 deionised water to soil extracts using pH probe.
Soil	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Soil	SFAS	As Received	Segmented flow analysis with colorimetric detection
Soil	Subcon*	*	Contact Laboratory for details of the methodology used by the sub-contractor.
Soil	SVOCMSUS	As Received	Determination of Semi Volatile Organic Compounds in soil samples by hexane / acetone extraction followed by GCMS detection
Soil	TPHUSSI	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GC/FID detection including quantitation of Aromatic and Aliphatic fractions.
Soil	VOCHSAS	As Received	Determination of Volatile Organic Compounds (VOC) by Headspace GCMS

Where individual results are flagged see report notes for status.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

CR Denotes Crocidolite

AM Denotes Amosite

NAIIS No Asbestos Identified in Sample

Symbol Reference

[^] Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

***** All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Where individual results are flagged see report notes for status.

TEST REPORT

WATER SAMPLE ANALYSIS



Report No. EXR/117239 (Ver. 1)

Soil Mechanics
Glossop House
Hogwood Lane
Finchampstead
Wokingham
RG40 4QW

Site: Project UCL HS

The 1 sample described in this report were logged for analysis by Scientifics on 14-Mar-2011. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 25-Mar-2011

Tests where the accreditation is set to N or No, and any individual data items marked with a * are not UKAS accredited
Any opinions or interpretations expressed herein are outside the scope of any UKAS accreditation held by Scientifics.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 3)
Table of SVOC Results (Page 4)
Table of TPH (Si) banding (0.01) (Page 5)
GC-FID Chromatograms (Pages 6 to 7)
Table of VOC (HSA) Results (Page 8)
Table of Method Descriptions (Page 9)
Table of Report Notes (Page 10)

On behalf of
Scientifics :
Andrew Timms

A handwritten signature in black ink, appearing to read 'Andrew Timms', written over the printed name.

Operations Manager

Date of Issue: 25-Mar-2011

Tests marked '^' have been subcontracted to another laboratory.

Scientifics accepts no responsibility for any sampling not carried out by our personnel.

Where individual results are flagged see report notes for status.

[illegible]

[illegible]

Semi-Volatile Organic Compounds

UKAS accredited?: No

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ESW
LIMS ID Number: EX1109506
Job Number: W11_7239

Date Booked in: 14-Mar-11
Date Extracted: 18-Mar-11
Date Analysed: 19-Mar-11

Matrix: Water
Ext Method: Sep. Funnel
Operator: DMB
Directory/Quant File: 18SVOC.MS16\ 0318_CCC1.D
QC Batch Number: 571
Multiplier: 0.005
Dilution Factor: 2.5
GPC (Y/N) N

Target Compounds	CAS #	R.T. (min)	Concentration mg/l	% Fit
Phenol	108-95-2	-	< 0.020	-
bis(2-Chloroethyl)ether	111-44-4	-	< 0.005	-
2-Chlorophenol	95-57-8	-	< 0.020	-
1,3-Dichlorobenzene	541-73-1	-	< 0.005	-
1,4-Dichlorobenzene	106-46-7	-	< 0.005	-
Benzyl alcohol	100-51-6	-	< 0.005	-
1,2-Dichlorobenzene	95-50-1	-	< 0.005	-
2-Methylphenol	95-48-7	-	< 0.005	-
bis(2-Chloroisopropyl)ether	108-60-1	-	< 0.005	-
Hexachloroethane	67-72-1	-	< 0.005	-
N-Nitroso-di-n-propylamine	621-64-7	-	< 0.005	-
3- & 4-Methylphenol	108-39-4/106-44-5	-	< 0.020	-
Nitrobenzene	98-95-3	-	< 0.005	-
Isophorone	78-59-1	-	< 0.005	-
2-Nitrophenol	88-75-5	-	< 0.020	-
2,4-Dimethylphenol	105-67-9	-	< 0.020	-
Benzoic Acid	65-85-0 *	-	< 0.100	-
bis(2-Chloroethoxy)methane	111-91-1	-	< 0.005	-
2,4-Dichlorophenol	120-83-2	-	< 0.020	-
1,2,4-Trichlorobenzene	120-82-1	-	< 0.005	-
Naphthalene	91-20-3	-	< 0.002	-
4-Chlorophenol	106-48-9	-	< 0.020	-
4-Chloroaniline	106-47-8 *	-	< 0.005	-
Hexachlorobutadiene	87-68-3	-	< 0.005	-
4-Chloro-3-methylphenol	59-50-7	-	< 0.005	-
2-Methylnaphthalene	91-57-6	-	< 0.002	-
1-Methylnaphthalene	90-12-0	-	< 0.002	-
Hexachlorocyclopentadiene	77-47-4 *	-	< 0.005	-
2,4,6-Trichlorophenol	88-06-2	-	< 0.020	-
2,4,5-Trichlorophenol	95-95-4	-	< 0.020	-
2-Chloronaphthalene	91-58-7	-	< 0.002	-
Biphenyl	92-52-4	-	< 0.002	-
Diphenyl ether	101-84-8	-	< 0.002	-
2-Nitroaniline	88-74-4	-	< 0.005	-
Acenaphthylene	208-96-8	-	< 0.002	-
Dimethylphthalate	131-11-3	-	< 0.005	-
2,6-Dinitrotoluene	606-20-2	-	< 0.005	-
Acenaphthene	83-32-9	-	< 0.002	-
3-Nitroaniline	99-09-2	-	< 0.005	-

Compounds marked with a * are reported not UKAS.
Concentrations are reported on a wet weight basis.

"M" denotes that % fit has been manually interpreted

Target Compounds	CAS #	R.T.	Concentration mg/l	% Fit
2,4-Dinitrophenol	51-28-5 *	-	< 0.010	-
Dibenzofuran	132-64-9	-	< 0.005	-
4-Nitrophenol	100-02-7	-	< 0.050	-
2,4-Dinitrotoluene	121-14-2	-	< 0.005	-
Fluorene	86-73-7	-	< 0.002	-
Diethylphthalate	84-66-2	-	< 0.005	-
4-Chlorophenyl-phenylether	7005-72-3	-	< 0.005	-
4,6-Dinitro-2-methylphenol	534-52-1	-	< 0.050	-
4-Nitroaniline	100-01-6	-	< 0.005	-
N-Nitrosodiphenylamine	86-30-6 *	-	< 0.005	-
4-Bromophenyl-phenylether	101-55-3	-	< 0.005	-
Hexachlorobenzene	118-74-1	-	< 0.005	-
Pentachlorophenol	87-86-5	-	< 0.050	-
Phenanthrene	85-01-8	-	< 0.002	-
Anthracene	120-12-7	-	< 0.002	-
Di-n-butylphthalate	84-74-2	-	< 0.005	-
Fluoranthene	206-44-0	-	< 0.002	-
Pyrene	129-00-0	-	< 0.002	-
Butylbenzylphthalate	85-68-7	-	< 0.005	-
Benzo[a]anthracene	56-55-3	-	< 0.002	-
Chrysene	218-01-9	-	< 0.002	-
3,3'-Dichlorobenzidine	91-94-1	-	< 0.020	-
bis(2-Ethylhexyl)phthalate	117-81-7	-	< 0.005	-
Di-n-octylphthalate	117-84-0	-	< 0.002	-
Benzo[b]fluoranthene	205-99-2	-	< 0.002	-
Benzo[k]fluoranthene	207-08-9	-	< 0.002	-
Benzo[a]pyrene	50-32-8	-	< 0.002	-
Indeno[1,2,3-cd]pyrene	193-39-5	-	< 0.002	-
Dibenzo[a,h]anthracene	53-70-3	-	< 0.002	-
Benzo[g,h,i]perylene	191-24-2	-	< 0.002	-

"M" denotes that % fit has been manually interpreted

Internal Standards	% Area
1,4-Dichlorobenzene-d4	84
Naphthalene-d8	86
Acenaphthene-d10	89
Phenanthrene-d10	90
Chrysene-d12	78
Perylene-d12	71

Surrogates	% Rec
2-Fluorophenol	44
Phenol-d5	32
Nitrobenzene-d5	80
2-Fluorobiphenyl	80
2,4,6-Tribromophenol	68
Terphenyl-d14	82

ALIPHATIC / AROMATIC FRACTION BY GC/FID

Customer and Site Details:

Job Number:

QC Batch Number:

Directory:

Method:

Soil Mechanics : Project UCL HS

W11_7239

110239

D:\TES\DATA\Y2011\0323TPH_GC16\032311 2011-03-23 08-47-55\061B1401.D

Separating Funnel

Separation:

Eluents:

Silica gel

Hexane, DCM

Matrix:

Date Booked in

Date Extracted

Date Analysed

Water

14-Mar-11

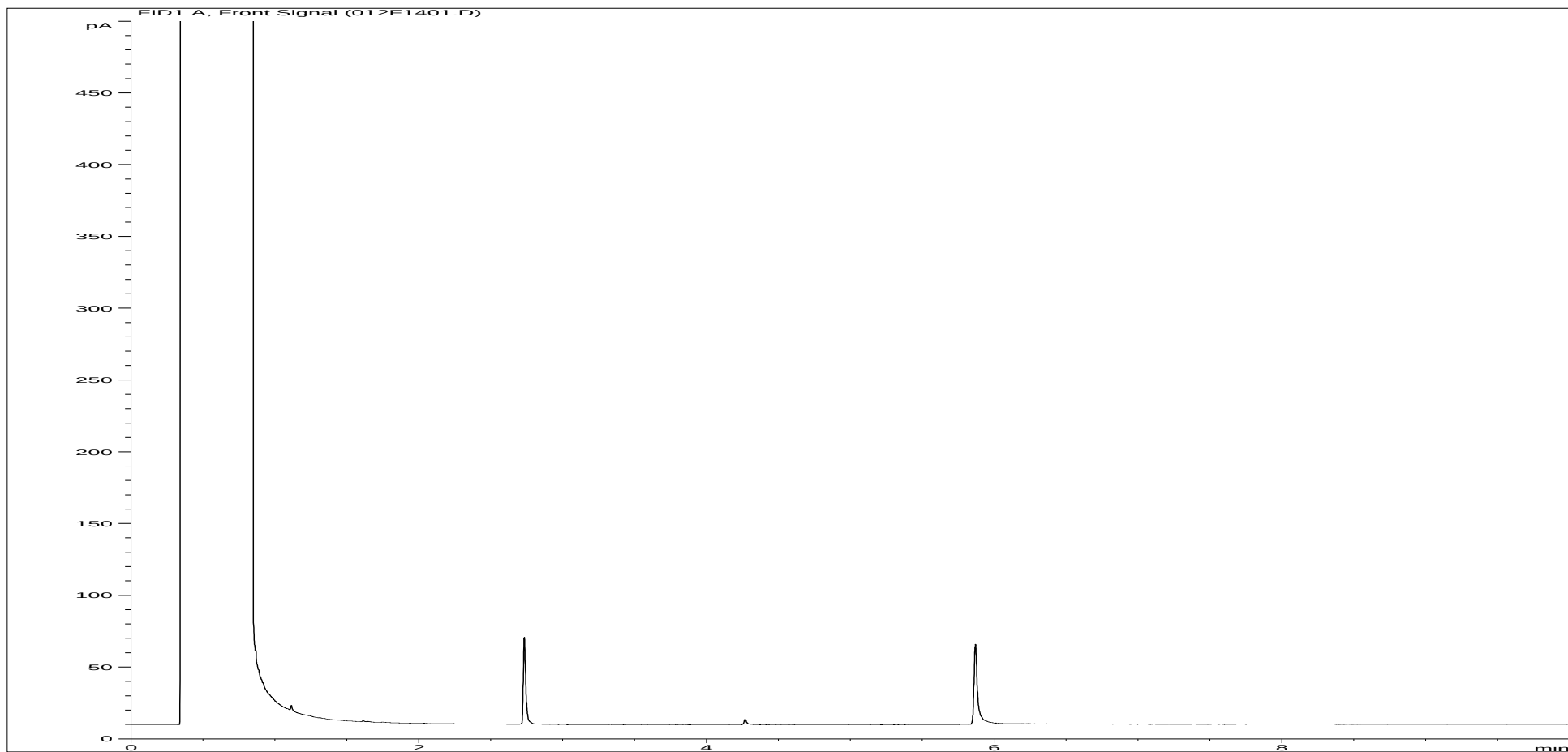
22-Mar-11

23-Mar-11, 12:33:03

		Concentration, (mg/l)											
		>C8 - C10		>C10 - C12		>C12 - C16		>C16 - C21		>C21 - C35		>C8 - C40	
Sample ID	Client ID	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics	Aliphatics	Aromatics
EX1109506	BH3 ESW	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

* This sample data is not UKAS accredited.

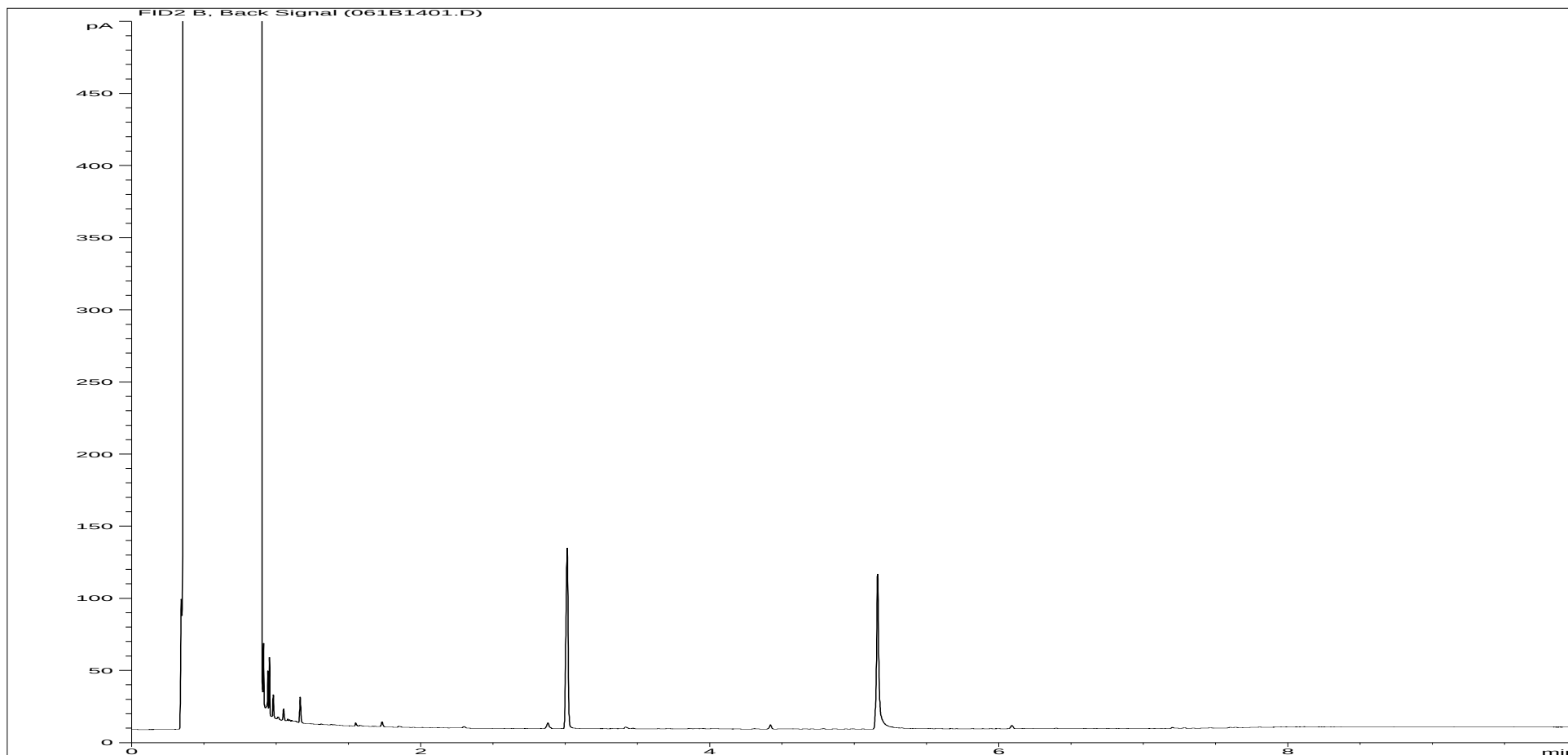
Petroleum Hydrocarbons (C8 to C40) by GC/FID Aliphatics Fraction.



Sample ID:	EX1109506ALI	Job Number:	W11_7239
Multiplier:	0.02	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	TPH_RUNF.M	Client Sample Ref:	BH3 ESW
Acquisition Date/Time:	23-Mar-11, 12:33:03		
Datafile:	D:\TES\DATA\Y2011\0323TPH_GC16\032311 2011-03-23 08-47-55\012F1401.D		

Where individual results are flagged see report notes for status.

Petroleum Hydrocarbons (C8 to C40) by GC/FID Aromatics Fraction.



Sample ID:	EX1109506ARO	Job Number:	W11_7239
Multiplier:	0.015	Client:	Soil Mechanics
Dilution:	1	Site:	Project UCL HS
Acquisition Method:	TPH_RUNF.M	Client Sample Ref:	BH3 ESW
Acquisition Date/Time:	23-Mar-11, 12:33:03		
Datafile:	D:\TES\DATA\Y2011\0323TPH_GC16\032311 2011-03-23 08-47-55\061B1401.D		

Where individual results are flagged see report notes for status.

Volatile Organic Compounds by HSA-GCMS

UKAS accredited?: Yes

Customer and Site Details: Soil Mechanics: Project UCL HS
Sample Details: BH3 ESW
LIMS ID Number: EX1109506
Job Number: W11_7239

Directory/Quant file: 322VOC.MS11\ Initial Calibration
Date Booked in: 14-Mar-11
Date Analysed: 22-Mar-11
Operator: AK
Matrix: Water
Method: Headspace
Multiplier: 1
Position: 2

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Dichlorodifluoromethane	75-71-8 *	-	< 1	-
Chloromethane	74-87-3	-	< 1	-
Vinyl Chloride	75-01-4	-	< 1	-
Bromomethane	74-83-9 *	-	< 5	-
Chloroethane	75-00-3	-	< 5	-
Trichlorofluoromethane	75-69-4	-	< 1	-
1,1-Dichloroethene	75-35-4	-	< 1	-
trans 1,2-Dichloroethene	156-60-5	-	< 1	-
1,1-Dichloroethane	75-34-3	-	< 1	-
2,2-Dichloropropane	594-20-7 *	-	< 1	-
cis 1,2-Dichloroethene	156-59-2	-	< 1	-
Bromochloromethane	74-97-5	-	< 1	-
Chloroform	67-66-3	-	< 5	-
1,1,1-Trichloroethane	71-55-6	-	< 1	-
Carbon Tetrachloride	56-23-5	-	< 1	-
1,1-Dichloropropene	563-58-6	-	< 1	-
Benzene	71-43-2	-	< 1	-
1,2-Dichloroethane	107-06-2	-	< 1	-
Trichloroethene	79-01-6	-	< 5	-
1,2-Dichloropropane	78-87-5	-	< 1	-
Dibromomethane	74-95-3	-	< 1	-
Bromodichloromethane	75-27-4	-	< 1	-
cis 1,3-Dichloropropene	10061-01-5 *	-	< 1	-
Toluene	108-88-3	-	< 1	-
trans 1,3-Dichloropropene	10061-02-6 *	-	< 1	-
1,1,2-Trichloroethane	79-00-5	-	< 1	-
Tetrachloroethene	127-18-4	-	< 5	-
1,3-Dichloropropane	142-28-9	-	< 1	-
Dibromochloromethane	124-48-1	-	< 1	-
1,2-Dibromoethane	106-93-4	-	< 1	-
Chlorobenzene	108-90-7	-	< 1	-
Ethylbenzene	100-41-4	-	< 1	-
1,1,1,2-Tetrachloroethane	630-20-6	-	< 1	-
m and p-Xylene	108-38-3/106-42-3	-	< 1	-
o-Xylene	95-47-6	-	< 1	-

Target Compounds	CAS #	R.T. (min.)	Concentration µg/l	% Fit
Styrene	100-42-5	-	< 1	-
Bromoform	75-25-2	-	< 1	-
iso-Propylbenzene	98-82-8	-	< 1	-
1,1,2,2-Tetrachloroethane	79-34-5 *	-	< 1	-
Propylbenzene	103-65-1	-	< 1	-
Bromobenzene	108-86-1	-	< 1	-
1,2,3-Trichloropropane	96-18-4	-	< 1	-
2-Chlorotoluene	95-49-8	-	< 1	-
1,3,5-Trimethylbenzene	108-67-8	-	< 1	-
4-Chlorotoluene	106-43-4	-	< 1	-
tert-Butylbenzene	98-06-6	-	< 1	-
1,2,4-Trimethylbenzene	95-63-6	-	< 1	-
sec-Butylbenzene	135-98-8	-	< 1	-
p-Isopropyltoluene	99-87-6	-	< 1	-
1,3-Dichlorobenzene	541-73-1	-	< 1	-
1,4-Dichlorobenzene	106-46-7	-	< 1	-
n-Butylbenzene	104-51-8	-	< 1	-
1,2-Dichlorobenzene	95-50-1	-	< 5	-
1,2-Dibromo-3-chloropropane	96-12-8 *	-	< 5	-
1,2,4-Trichlorobenzene	120-82-1	-	< 5	-
Hexachlorobutadiene	87-68-3	-	< 5	-
Naphthalene	91-20-3	-	< 5	-
1,2,3-Trichlorobenzene	87-61-6	-	< 5	-

Compounds marked * are not UKAS accredited
"M" denotes that % fit has been manually interpreted

Internal standards	R.T.	Area %	Surrogates	% Rec
Pentafluorobenzene	3.65	81	Dibromofluoromethane	114
1,4-Difluorobenzene	4.00	85	Toluene-d8	91
Chlorobenzene-d5	5.12	85	Bromofluorobenzene	88
1,4-Dichlorobenzene-d4	5.91	73		

Note: Volatile compounds degrade with time, and this may affect the integrity of the data depending on the timescale between sampling and analysis. It is recommended that analysis takes place within 7 days of sampling.

Where individual results are flagged see report notes for status.

Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Water	Calc HD	As Received	Calculation based on Dissolved metals analysis by ICPOES
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAPI	As Received	Determination of Total Phenols by segmented flow analysis with colorimetric detection
Water	SFAS	As Received	Determination of Sulphide by segmented flow analysis with colorimetric detection
Water	SVOCSW	As Received	Determination of Semi Volatile Organic Compounds (SVOC) by DCM extraction followed by GCMS detection
Water	TPHFID-Si	As Received	Determination of speciated pentane extractable hydrocarbons in water by GCFID
Water	VOCHSAW	As Received	Determination of Volatile Organics Compounds or Gasoline Range Hydrocarbons (GRO) by Headspace GCMS
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Where individual results are flagged see report notes for status.

Report Notes

Generic Notes

Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on an air dried basis
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

Waters Analysis

Unless stated otherwise results are expressed as mg/l

Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm³@ 15°C

Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

Asbestos Analysis

CH Denotes Chrysotile

CR Denotes Crocidolite

AM Denotes Amosite

NAIIS No Asbestos Identified in Sample

Symbol Reference

[^] Sub-contracted analysis. Note: The accreditation status is that assigned by the subcontract laboratory.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

***** All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

Note: The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

END OF REPORT

Where individual results are flagged see report notes for status.

D3 Gas Monitoring

Gas Monitoring



Soil Mechanics

							Detection Limit	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
							Unit							
Hole No	Date	Reading Depth, mBGL	Air Temperature, oC	Barometric Pressure, mbar	Gas Differential Pressure, Pa	Gas Flow Rate, l/hr	Gas	Carbon dioxide	Carbon monoxide	Hydrogen sulphide	Methane	Methane	Nitrogen	Oxygen
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		0.4	<1	<1	<0.1	<0.1	N/D	19.8
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	N/D	15.3
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	N/D	14.9
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	N/D	14.9
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	85.3	14.6
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	85.3	14.6
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	85.3	14.6
BH1	9 Mar 2011	5.80	10	1010	0.0	<0.1		<0.1	<1	<1	<0.1	<0.1	85.3	14.6
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		1.3	<1	<1	<0.1	<0.1	78.3	19.9
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		1.7	<1	<1	<0.1	<0.1	78.4	19.7
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		2.6	<1	<1	<0.1	<0.1	78.6	18.8
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		3.2	<1	<1	<0.1	<0.1	79.0	17.9
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		3.3	<1	<1	<0.1	<0.1	79.0	17.6
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		3.2	<1	<1	<0.1	<0.1	79.0	17.6
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		3.1	<1	<1	<0.1	<0.1	79.0	17.8
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		2.9	<1	<1	<0.1	<0.1	78.8	18.2
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		2.6	<1	<1	<0.1	<0.1	78.5	18.6
BH3	9 Mar 2011	5.90	10	1010	0.0	<0.1		1.4	<1	<1	<0.1	<0.1	78.4	20.1

Notes: ND - not detected

Project Project UCL HS, London, W1T

Project No. D0050-10

Carried out for UCL Properties Ltd

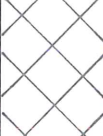
Table

B3

Appendix E

Albury Ground Investigation

E1 Logs

ALBURY S. I. Ltd Petworth Road Witley Surrey GU8 5LH 				Trialpit 1	
Contract Charlotte Street, London W1				Report No 14/10260/CVS	
Client UCL				Date 8/9/2014	
Site Address UCL, Charlotte Street, St Pancras, London W1T 4QB				Ground Level mOD	
Type of Excavator Manual/HA		Water level after completion, m none			
Water Strikes, m 1 2.70 2		Pit Dimensions, m Length 0.90 Breadth 0.40		Ease of Excavation, m Very easy Moderate GL-2.60 Difficult 2.60-2.80 Very hard	
Remarks					
Sample Type	Depth, m	Shear Strength kPa	Scale 40mm: 1m Depth Legend		Description
D	0.25		0.20		Made ground (paving slab over concrete)
D	0.50				Made ground (dark brown silty sand with extensive brick and concrete fragments and occasional metal and roots)
D	1.00		0.95		Made ground (brown silty/clayey sand with gravel and brick fragments)
D	1.50				
D	2.00				
D	2.50		2.60		
D	2.70		2.80		Brown silty sandy gravel

Sample Code: U – Intact 100 to 50mm Ø B - Large Disturbed D - Small Disturbed W - Water

