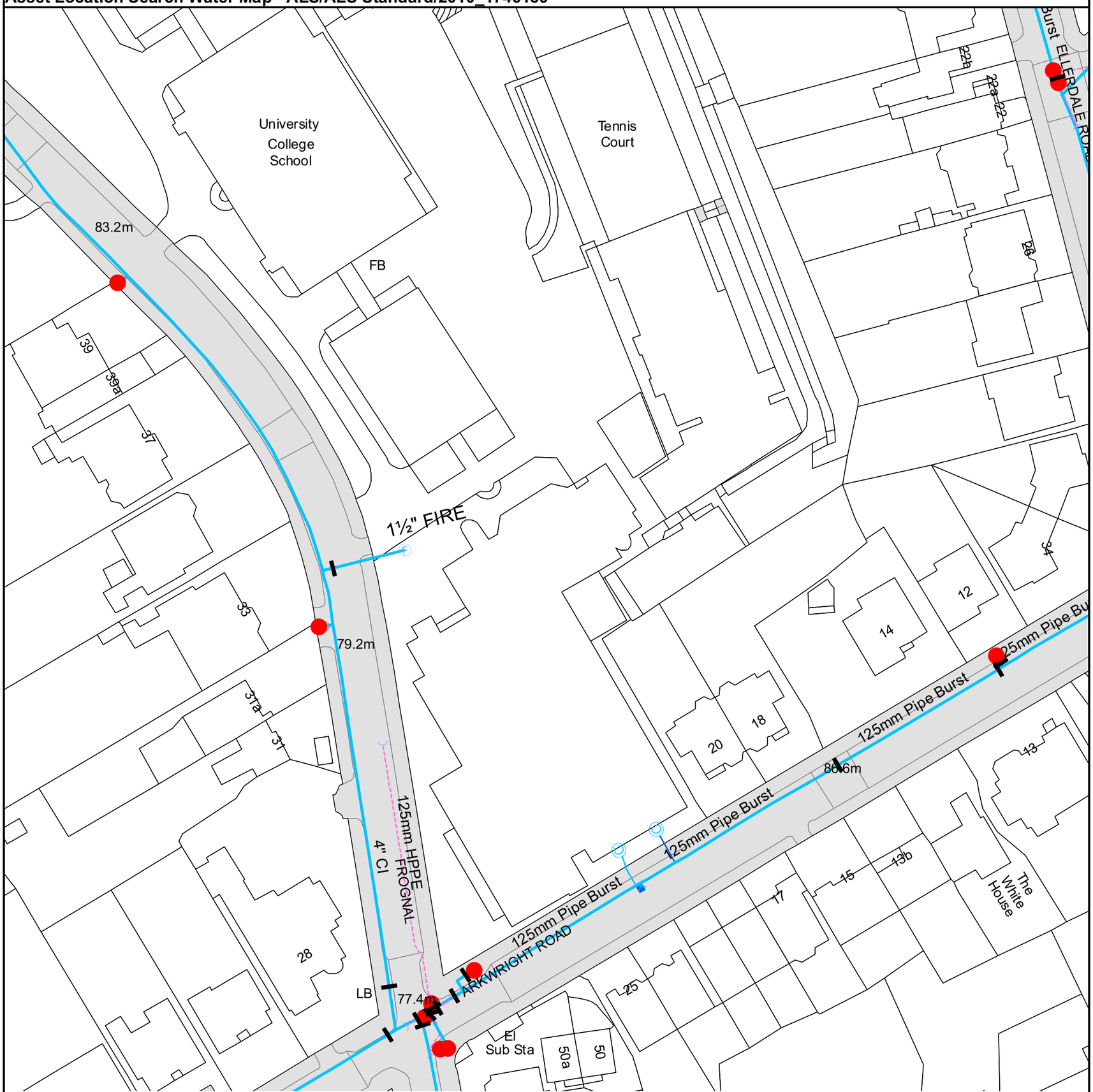
Appendix D – Thames Water Stats Information

Asset Location Search Water Map - ALS/ALS Standard/2010_1746139



The width of the displayed area is 200m

ALS Water Map Key

Water Pipes (Operated & Maintained by Thames Water)

4"

Distribution Main: The most common pipe shown on water maps. With few exceptions, domestic connections are only made to distribution mains.

16"

Trunk Main: A main carrying water from a source of supply to a treatment plant or reservoir, or from one treatment plant or reservoir to another. Also a main transferring water in bulk to smaller water mains used for supplying individual customers.

3" SUPPLY

Supply Main: A supply main indicates that the water main is used as a supply for a single property or group of properties.

3" FIRE

Fire Main: Where a pipe is used as a fire supply, the word FIRE will be displayed along the pipe.

3" METERED

Metered Pipe: A metered main indicates that the pipe in question supplies water for a single property or group of properties and that quantity of water passing through the pipe is metered even though there may be no meter symbol shown.

Transmission Tunnel: A very large diameter water pipe. Most tunnels are buried very deep underground. These pipes are not expected to affect the structural integrity of buildings shown on the map provided.

Proposed Main: A main that is still in the planning stages or in the process of being laid. More details of the proposed main and its reference number are generally included near the main.

PIPE DIAMETER	DEPTH BELOW GROUND
Up to 300mm (12”)	900mm (3’)
300mm - 600mm (12” - 24”)	1100mm (3’ 8”)
600mm and bigger (24” plus)	1200mm (4’)

Valves

- General Purpose Valve
- Air Valve
- Pressure Control Valve
- Customer Valve

Hydrants

- Single Hydrant

Meters

- Meter

End Items

Symbol indicating what happens at the end of a water main.

- Blank Flange
- Capped End
- Emptying Pit
- Undefined End
- Manifold
- Customer Supply
- Fire Supply

Operational Sites

- Booster Station
- Other
- Other (Proposed)
- Pumping Station
- Service Reservoir
- Shaft Inspection
- Treatment Works
- Unknown
- Water Tower

Other Symbols

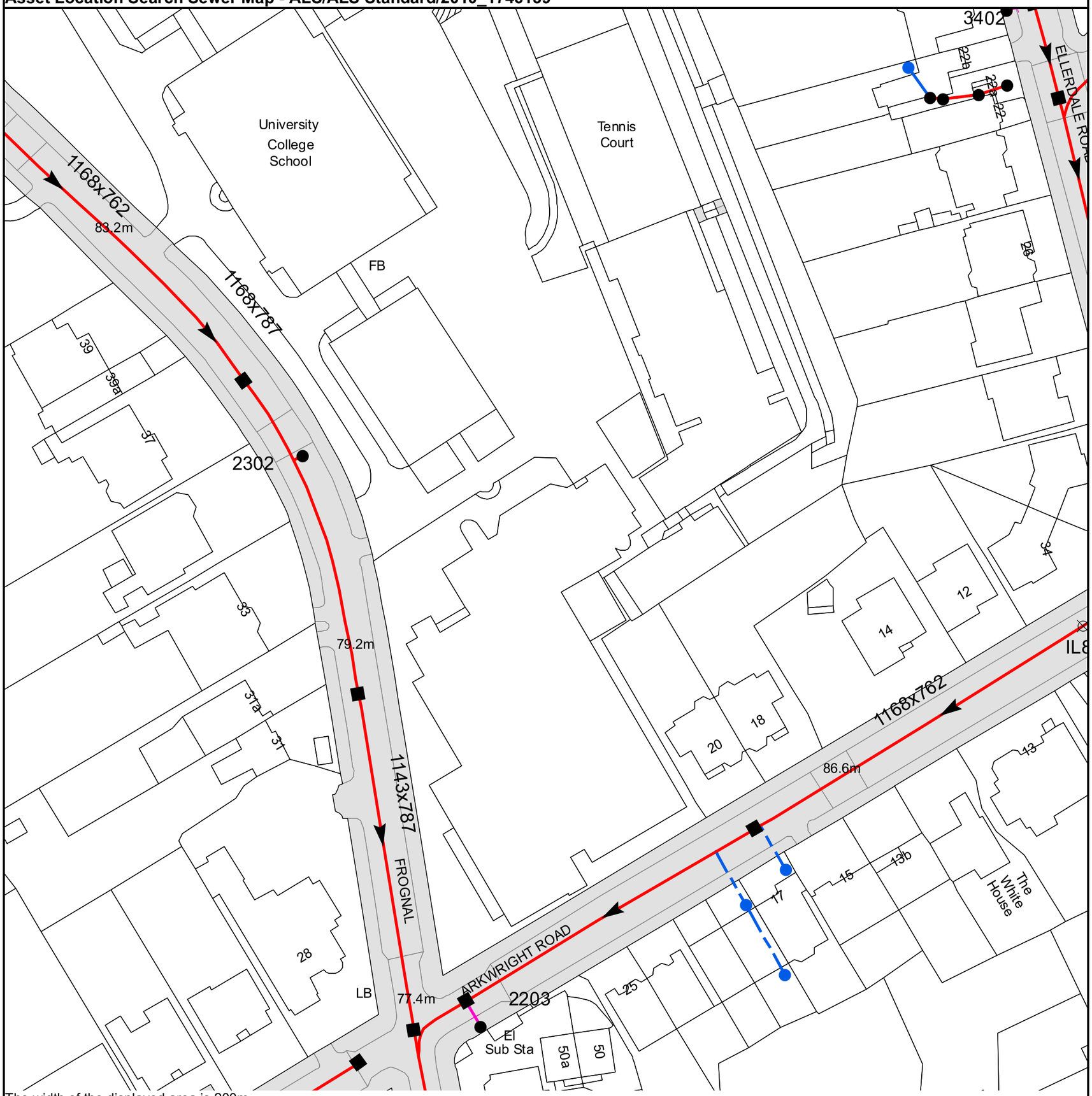
- Data Logger

Other Water Pipes (Not Operated or Maintained by Thames Water)

Other Water Company Main: Occasionally other water company water pipes may overlap the border of our clean water coverage area. These mains are denoted in purple and in most cases have the owner of the pipe displayed along them.

Private Main: Indiates that the water main in question is not owned by Thames Water. These mains normally have text associated with them indicating the diameter and owner of the pipe.

Asset Location Search Sewer Map - ALS/ALS Standard/2010_1746139



The width of the displayed area is 200m

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
3201	n/a	n/a
3202	n/a	n/a
34BJ	n/a	n/a
34BI	n/a	n/a
34CA	n/a	n/a
34BH	n/a	n/a
2210	n/a	n/a
2302	n/a	n/a
2203	n/a	n/a
3402	n/a	n/a
-	-	-
34CB	n/a	n/a

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.

Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.

Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.

Trunk Surface Water

Trunk Foul

Storm Relief

Trunk Combined

Vent Pipe

Bio-solids (Sludge)

Proposed Thames Surface Water Sewer

Proposed Thames Water Foul Sewer

Gallery

Foul Rising Main

Surface Water Rising Main

Combined Rising Main

Sludge Rising Main

Proposed Thames Water Rising Main

Vacuum

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

Air Valve

Dam Chase

Fitting

Meter

Vent Column

Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

Control Valve

Drop Pipe

Ancillary

Weir

End Items

End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol, Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

Outfall

Undefined End

Inlet

Other Symbols

Symbols used on maps which do not fall under other general categories

Public/Private Pumping Station

Change of characteristic indicator (C.O.C.I.)

Invert Level

Summit

Areas

Lines denoting areas of underground surveys, etc.

Agreement

Operational Site

Chamber

Tunnel

Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

Foul Sewer

Surface Water Sewer

Combined Sewer

Gulley

Culverted Watercourse

Proposed

Abandoned Sewer

Notes:

1) All levels associated with the plans are to Ordnance Datum Newlyn.

2) All measurements on the plans are metric.

3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.

4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.

5) 'na' or '0' on a manhole level indicates that data is unavailable.

6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0118 925 1504.

Appendix E – Historic Borehole Logs for Adjacent Site

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN Tel: 01252 518821

Borehole No. One | Ref: G/030217/1

Sheet 1 of 2 | Scale: N/A | Date: 09 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
Grass – soft clay fill with bricks.			00	0.5m	D1			
			(1.6m)	1.0m			N = 5	
Brown clay with roots.			1.6	1.6m	D2			
			(1.2m)	2.0m	U1			
				2.45m	D3			
Silty sand and gravel.			2.8	2.8m	D4			
			(0.9m)	3.0m			N = 5	
Brown/grey silty clay.			3.7	3.7m	D5			
				4.0m	U2			
			(1.5m)	4.5m	D6			
Stiff brown/grey clay.			5.2	5.1m	U3			
				5.5m	D7			
				6.0m	D8			
				6.5m	U4			
				6.95m	D9			
			(4.3m)	7.5m	D10			

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

B - Bulk Sample.
D - Disturbed Samples.
S - Standard Penetration Test.
V - Vane Test.
W - Water Test.
[] - Piston(P); Tube(T) or Core(U) Sample: Length to scale.
MP - Mackintosh Probe

Remarks:

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN Tel: 01252 518821

Borehole No. One | Ref: G/030217/1

Sheet 2 of 2 | Scale: N/A | Date: 9 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
Stiff brown/grey clay (continued).				8.0m	U5			
				8.45m	D11			
				9.0m	D12			
Stiff grey clay.			9.5	9.5m	U6			9.5 – Water seepage
				9.95m	D13			
				10.5m	D14			
				11.0m	U7			
				11.45m	D15			
			(5.5m)	12.0m	D16			
				12.5m	U8			
				12.95m	D17			
				13.5m	D18			
				14.0m	U9			
				14.45	D19			
			15.0	15.0m	D20			
Borehole ends.								

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

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D - Disturbed Samples.
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V - Vane Test.
W - Water Test.
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MP - Mackintosh Probe

Remarks:

Borehole dry and open on completion.

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN Tel: 01252 518821

Borehole No. Two | Ref: G/030217/2

Sheet 1 of 2 | Scale: N/A | Date: 10 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
			00					
Brick clay fill.			(1.6m)	1.0m			N = 8	
Brown sandy clay fill.			1.6	1.6m	D1			
				2.0m	U1			
				2.45m	D2			
				3.0m	U2			3m – Water struck
			(3.4m)	3.4m	D3			
				4.0m	U3			
				4.45m	D4			
			5.0	5.0m	U4			
Firm/stiff brown/green sandy clay.				5.45m	D5			
				6.5m	U5			
				6.95m	D6			
			(5.2m)	7.25m	D7			

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

B - Bulk Sample.
D - Disturbed Samples.
S - Standard Penetration Test.
V - Vane Test.
W - Water Test.
[] - Piston(P); Tube(T) or Core(U) Sample: Length to scale.
MP - Mackintosh Probe

Remarks:

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN Tel: 01252 518821

Borehole No. Two | Ref: G/030217/2

Sheet 2 of 2 | Scale: N/A | Date: 10 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
Firm/stiff brown/green sandy clay (continued).				8.0m	U6			
				8.45m	D8			
				8.75m	D9			
				9.5m	U7			
				9.95m	D10			
Firm/stiff grey sandy clay.			10.2	10.25m	D11			
				11.0m	U8			
				11.45m	D12			
				11.75m	D13			
				12.5m	U9			
			(4.8m)	12.95m	D14			
				13.75m	D15			
				14.55m	U10			
			15.0	15.0m	D16			
Borehole ends.								

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

B - Bulk Sample.
D - Disturbed Samples.
S - Standard Penetration Test.
V - Vane Test.
W - Water Test.
[] - Piston(P); Tube(T) or Core(U) Sample: Length to scale.
MP - Mackintosh Probe

Remarks:

Borehole dry and open on completion.

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN
Tel: 01252 518821

Borehole No. Three | Ref: G/030217/3

Sheet 1 of 2 | Scale: N/A | Date: 08 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
Grass – stony soil fill.			00 (0.4m) 0.4					
Brown/grey clay fill.			(1.0m) 1.4	0.5m	D1			
				1.0m	U1			
Soft brown clay.			(1.7m) 3.1	1.45m	D2			
				2.0m	U2			
				2.5m	D3			
Green/grey sandy silt with gravel.			(2.8m)	3.1m	U3			
				3.6m	D4			
				4.1m			N = 6	
				5.1m	D5		N = 6	5.2 – Water seepage
Stiff brown/grey sandy clay.			5.9 (4.5m)	5.9m	D6			
				6.0m	U4			
				6.5m	D7			
				7.0m	D8			
				7.5m	U5			
				7.95m	D9			

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

B - Bulk Sample.
D - Disturbed Samples.
S - Standard Penetration Test.
V - Vane Test.
W - Water Test.
[] - Piston(P); Tube(T) or Core(U) Sample: Length to scale.
MP - Mackintosh Probe

Remarks:

K.F. Geotechnical

85 Alexandra Road
Farnborough
Hants
GU14 6BN
Tel: 01252 518821

Borehole No. Three | Ref: G/030217/3

Sheet 2 of 2 | Scale: N/A | Date: 8 Apr 2002

Client: Price & Myers

Equipment & Method: Shell & Auger

Location: University College School

Description	Reduced Level	Legend	Depth & Thickness	Samples and Tests: Depth	Sample: Type	Sample: No.	Test	Field Notes
Stiff brown/grey sandy clay (continued).				8.5m	D10			
				9.0m	U6			
				9.45m	D11			
				10.0m	D12			
Stiff brown clay.			10.4	10.5m	U7			
				10.95m	D13			
				11.5m	D14			
			(2.7m)	12.0m	U8			
				12.45m	D15			
				13.0m	D16			
Stiff grey clay.			13.1	13.5m	U9			
				14.0m	D18			
			(1.9m)	14.5m	U10			
			15.0	15.0m	D19			
Borehole ends.								

Where 0.3m penetration has not been achieved, the number of blows for the quoted penetration is given. (Not the N value).
All depths and reduced levels are in metres.
The thickness is given in brackets in the depth column.
Water level observations during boring are given on the last sheet of that log.

B - Bulk Sample.
D - Disturbed Samples.
S - Standard Penetration Test.
V - Vane Test.
W - Water Test.
[] - Piston(P); Tube(T) or Core(U) Sample: Length to scale.
MP - Mackintosh Probe

Remarks:

Borehole dry and open on completion.