



Crown copyright (Extract from Geological Survey of Great Britain Sheet TQ 28 NE 1967)

SCALE 1:10,560

Reproduced from Ordnance Survey mapping with the permission of the Controller of Her Majesty's Stationary Office. Crown Copyright reserved (Licence No: 100002620)



GEOLOGICAL MAP EXTRACT

Client: GCL Associates

Figure: 3

Site: Fitzroy Farm

Job No: 241529-01

Scale: NTS

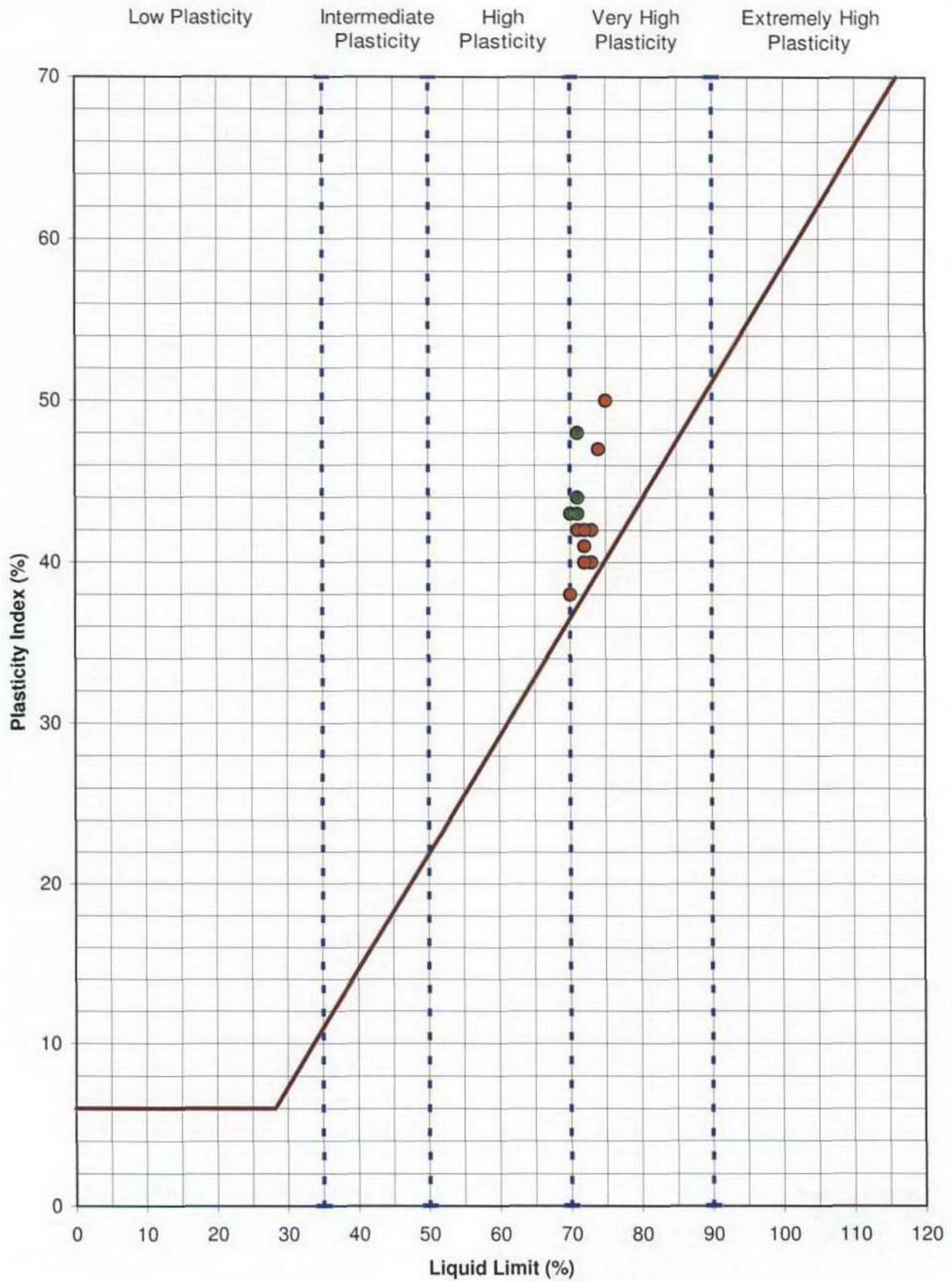
Source: BGS

PLASTICITY CLASSIFICATION CHART

Site:
Fitzroy Park, London

Client:
GCL Associates

Job Number: 241529
Figure: 4



— A - Line
● London Clay Formation
- - - Classifications
● Weathered London Clay Formation



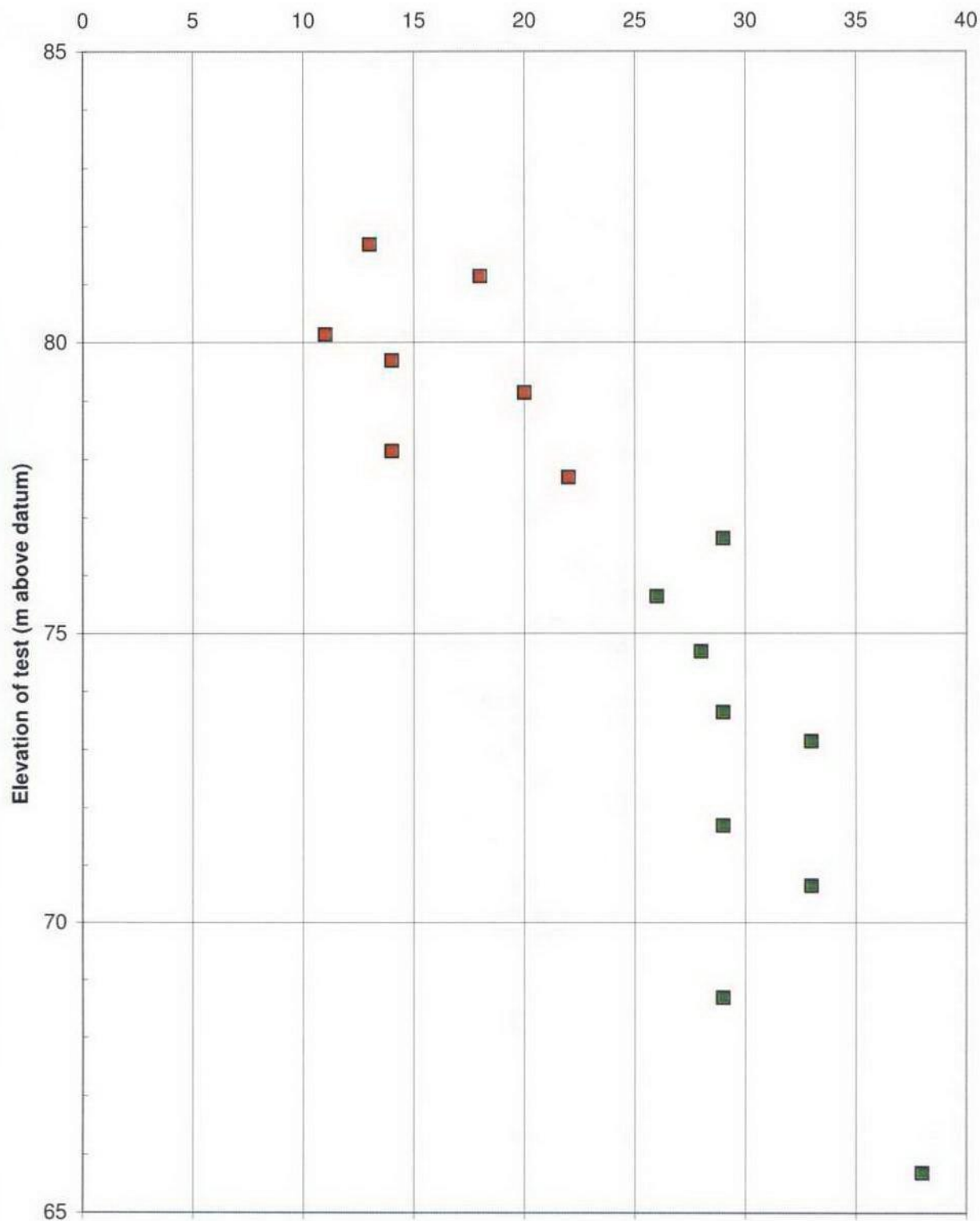
SPT 'N' VALUES vs Elevation

Site:
Fitzroy Park, London

Client:
GCL Associates

Job Number: 241529
Figure: 5

SPT 'N' Value (for 300mm penetration)



■ London Clay Formation ■ Weathered London Clay Formation

SHEAR STRENGTH vs ELEVATION

Site:

Fitzroy Park, London

Client:

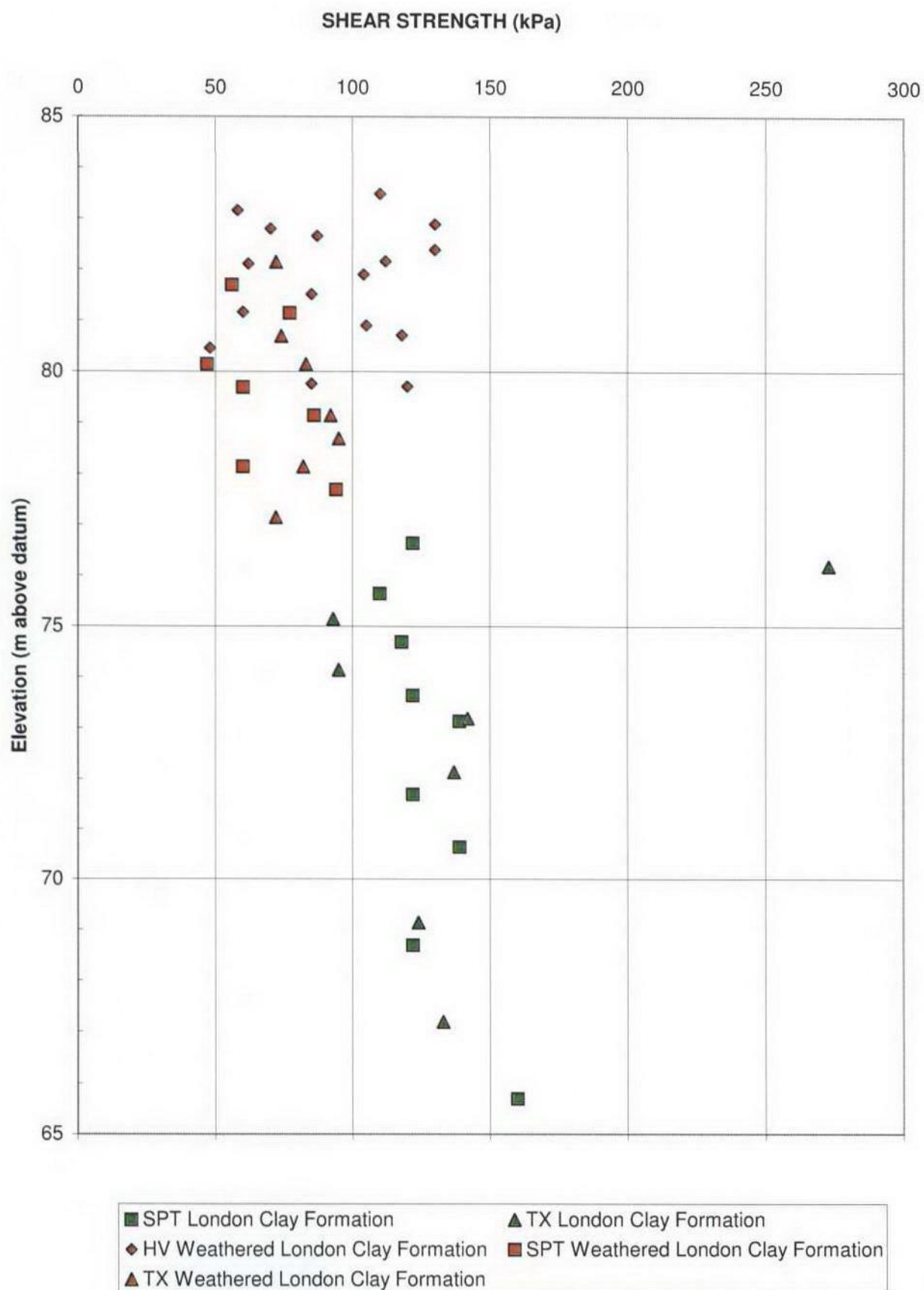
GCL Associates

Job Number:

241529

Figure:

6



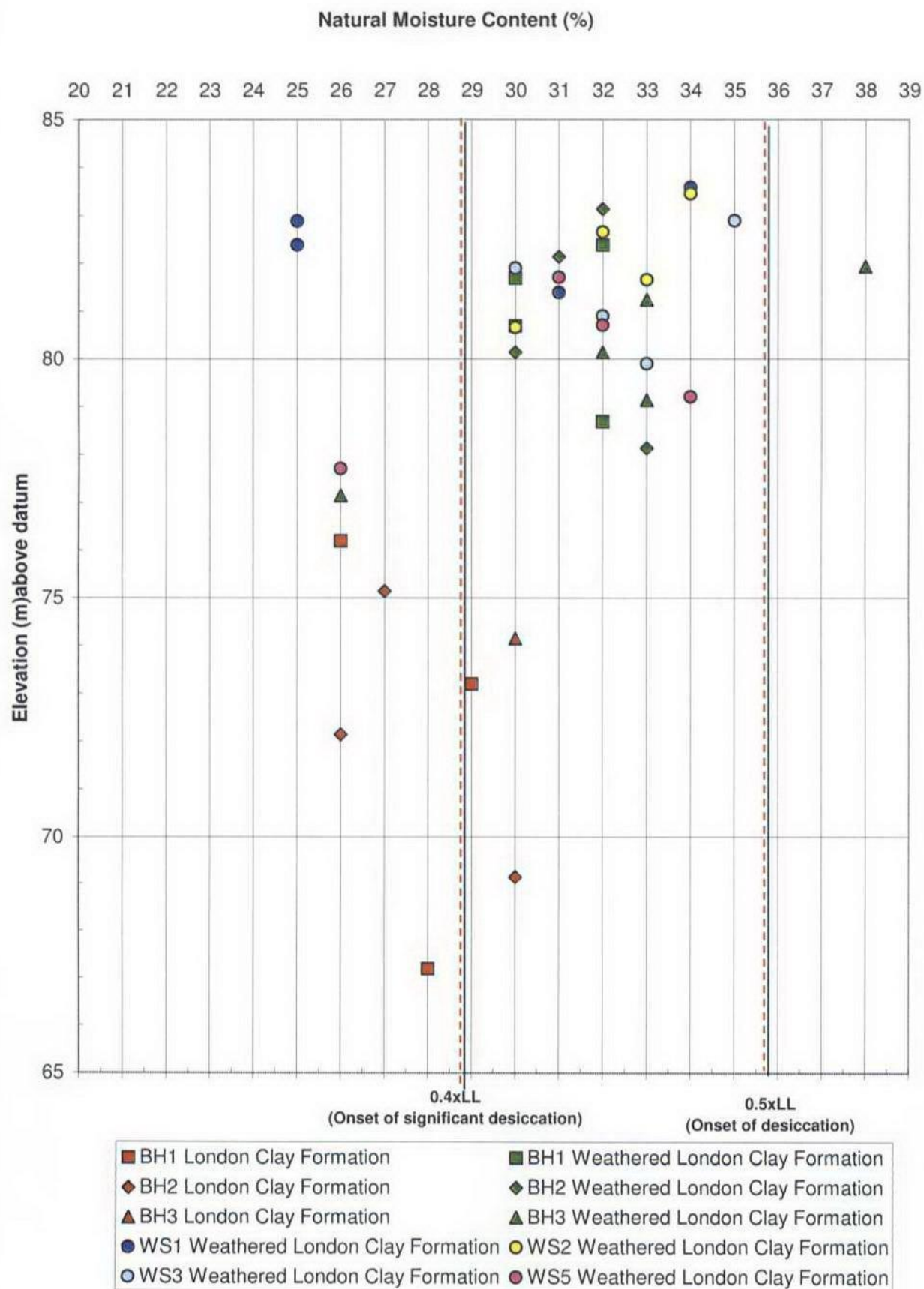


MOISTURE CONTENT vs ELEVATION

Site:
Fitzroy Park, London

Client:
GCL Associates

Job Number: 241529
Figure: 7

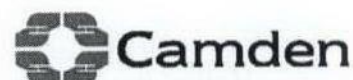


APPENDIX A

Desk Study

(this appendix contains 10 pages, including this one, and one CD)

Date: 09 April 2010
Our Reference: RS/C&E/RI/2010/123940
Your Reference: 67940
Direct Phone Number: 020 7974 2990
Contact: Rob Ivens
E-mail: rob.iven@camden.gov.uk



Compliance and Enforcement Team
London Borough of Camden
Town Hall
Argyle Street
London WC1H 8EQ

Tel: 020 7278 4444 (switchboard)
Fax: 020 7974 6955
DX: 2106 Euston

www.camden.gov.uk

Please quote our reference in any correspondence

Dear Dr Gerring,

**Site Fitzroy Farm
Environmental Query**

Thank you for paying our environmental search fee of £60 I understand your standard questions are as follows.

1. Is the Council aware of any contamination issues or specific incidents in connection with the site?

I can confirm I can find no information relating to contamination issues at the site on our electronic complaints system.

2. Has the site been identified under the Council's Contaminated Land Strategy for further investigation under the provisions of Part IIA of the EPA 1990? If so, please provide further details, including your predicted timescales for further action. If not, what is the likelihood of the site being identified in the future?

The site would not be considered a priority for inspection under part IIA. Nor is it considered based on the information currently available to me that the site is in close proximity to any historical land uses that would pose a particular risk. A list of known sites located within approximately 250m of the site boundary is appended with this letter

3. Are there any closed, licensed or unlicensed landfill sites within a 250m radius of the site? If yes, what is their location (i.e. NGR) and what types of waste were deposited in them? Are there any known gassing issues? If any gas spiking/monitoring has been carried out, could you please supply the results?

There are no known closed landfills with 250-500m

4. Are there any private water supplies on your Local Authority Private Water Supply Register, within a 2km radius of the site? If yes, what is the location (i.e. NGR) and the source of the abstraction and its purpose?



Half of the site is located on a minor aquifer and half is located on a none aquifer. Unfortunately I can not find the Councils record of private water supplies however I can confirm their to be a number of known water abstraction boreholes recorded by BGS within 2km. This information is also appended.

The above response is provided from such information that is readily available to the Council and in its possession. It is believed to be correct but the Council expressly gives no warranty in this respect nor will the Council accept any liability whatsoever for any error, omission or loss occasioned thereby to any person (whether or not the person requested the information) and in particular the Council gives no warranty that it has researched all its relevant archives in order to respond to the request for information.

Yours sincerely

Rob Ivens
Contract Contaminated Land Officer.
Compliance and Enforcement Team



Borehole/Well No.		Location		NGR/Lat. & Long.	
TQ 28 NE/198		HAMPSTEAD HEATH		26455 26890	
		KB/Ground level +128.71m		Logged by P. J. STRANGE	
Stratigraphy	Carbonates Calc. R. Calc. A. Calc. L. Average grain size C P G V C C M F V S I C	Sedimentary structures	Graphic lithology	Lithological description	
1				NO CORE RECOVERY	
2					
3					
4				RECOVERY STARTS AT 3.76	
				SAND, fine-grained, dark yellow orange, 10YR 6/6, ferruginous streaks, silty at sharp base	
				SAND, fine-grained, dark yellow orange, 10YR 6/6, burrow prominent at 4.30, some bioturbation, pale brown clay lense at 4.38-4.44.	
5				SAND, fine-grained, yellowish olive grey, 5Y 5/3, laminated, very faint in part. Orange ferruginous patches to 1cm across around 4.70. Large vertical burrow at 4.60. Laminations becoming more distinct from 5.47 to base. Ferruginous nodules at 5.79	
6				SAND, fine-grained, dark yellowish orange 10YR 6/6, variable colour patches, ? bioturbated with silty wisps.	
7				SAND, fine-grained, brown, 7.5 YR-5Y 5/3, faintly laminated, scattered glauconite grains, orange-brown ferruginous patches.	
				SAND, Very fine-grained, brown 7.5 YR 5/8, ferruginous staining	
				SILT, clayey, light olive brown, 2.5Y 5/6, ferruginous staining at top	
8				SAND, Very fine-grained, light olive brown, 2.5Y 5/6, fine, laminated, scattered dark brownish patches, crab like pyrite patch at 8.65. Prominently laminated below 9.30. Very ferruginous near base.	
9				CLAY, Silty and sandy, strongly coloured from orange to brown, yellow and grey. Highly disturbed, possibly by drilling	
10					
11				SILT, clayey, becoming down to sandy, yellowish olive grey, 10YR 5/3. Bioturbated and roughly laminated. Burrows faintly laminated between 12.38 and 12.49. Orange wisps prominent between 12.76 and 12.86	
12					

BAGSHOT BEARS



Borehole/Well No.		Location		NGR/Lat & Long	
TQ 28 NE /198		HAMPSTEAD HEATH		26455 86890	
		KB/Ground level +128.71m		Logged by P J STRANGE	
Stratigraphy	Carbonates Calc. Rj Calc. A Calc. L Average grain size C P G V C C M F V F S I C	Sedimentary structures	Graphic lithology	Lithological description	
12		S S			
13					
14		S S		13.35	SAND, fine-grained, yellowish brown, 10YR 5/6, crossbedded fining downwards
14		S S		14.42	SAND, very fine-grained, yellowish brown, 10YR 5/6, ? bioturbated, fining downwards
15		S S		15.25	SAND, very fine-grained, light olive brown, 2.5Y 5/4, bioturbated
15		S S		15.50	CLAY, olive yellow, 2.5Y 6/8
16		S S		16.70	SAND, very fine-grained, brownish yellow, 10YR 6/8, but greyish at top 10cm fining downwards to silt size at base. Base is sharp and irregular, bioturbated throughout
17		S S		17.11	CLAY, silty, medium grey to yellow brown, 10YR 5/6, sandy filled barrows at 17.06
17				17.33	NO RECOVERY
18		S S		19.00	SAND, very fine-grained, light olive brown, 2.5Y 5/4, with silty greyish brown patches. Ferruginous stained vertical streaks 18.30 to 18.90. Fining downwards to base. Bioturbated.
19		S S		19.63	SAND, very fine-grained, silty, olive, 5Y 4/3, laminated in top 10cm
20		S S		20.15	SILT, light olive grey, 5Y 6/1, with darker clay patches and scattered sand lenses
21		S S		21.00	SAND, fine-grained, well laminated, particularly towards base, sharp base of unit at 21.03
21		S S		21.50	CLAY, dark yellowish brown, 10YR 4/2, bioturbated, with sandy wisps and sand filled burrows
22		S S		21.86	SAND, very fine-grained, light olive grey, 5Y 6/1, well laminated, roughly horizontal
22		S S		22.40	CLAY, silty, dark yellow brown, 10YR 4/2, bioturbated
23		S S		22.70	SAND, very fine-grained, light olive grey, 5Y 6/1, fining downwards. Bioturbated
23		S S		23.72	SAND, very fine-grained, light olive grey, 5Y 6/1, well laminated with clay enrichment. Lamination small scale, pericentronous, fining displaying laminae at 23.10
24		S S			SILT, clayey with sandy patches, greyish brown, 5YR 3/4



Borehole/Well No.		Location		NGR/Lat. & Long.	
TQ 28 NW / 198		HAMPSTEAD HEATH		26455 86890	
		KB/Ground level +128.71 m		Logged by P. J. STRANGE	
Stratigraphy	Carbonates Calc. R Calc. A Calc. L Average grain size C P G V C C M F V S I C	Sedimentary structures	Graphic lithology	Lithological description	
24		S S S		to dk yellowish brown, 10YR 4/2. Silty between 24.10 and 24.39. Scattered lenticular stained patches and dark staining. V. fine sand between 25.25 and 25.40. V. fine grained sand between 26.08 and 26.15. 26.28 and 26.32. Poorly laminated between 25.15 and 25.40. Pyrite nodules at 27.15.	
25		S S			
26		S S			
27		S S			
27		S S			
28		S S			
29		S S			
29		S S			
30		S S			
30		S S			
31		S S			
31		S S			
32		S S			
32		S S			
33		S S			
34		S S			
35		S S			
36		S S			

CLAYGATE BEDS

LONDON CLAY



Borehole/Well No. TQ 28 NE 198		Location HAMPSTEAD HEATH		NGR/Lat. & Long. 26455 86890	
		KB/Ground level +128.71 m		Logged by P.J. STRANGE	
Stratigraphy	Carbonates Calc. R Calc. A Calc. L Average grain size C P Q V C C M F V S L C	Sedimentary structures	Graphic lithology	Lithological description	
36		S S			
37		S S			
38		S S			
39		S S			
40		S S			
41		S S			
42		S S			
43		S S			
44		S S			
45		S S			
46		S S			
47		S S			
48		S S			

CLAY, silty, gradual fining downwards, dark yellowish brown, 10YR 4/2, with scattered broken shell fragments silty w/ps scattered. Between 43.88 and 44.25 the core is broken up and ? disturbed by drilling.

44.75 SILT, dark yellow brown, 10YR 4/2, with thin chocolate brown clay bands, roughly horizontal.

45.05 CLAY, dark yellow brown, 10YR 4/2, with silt and sand w/ps. Disturbed.

45.66 SILT, dark yellow brown, 10YR 4/2, with pale brown sandy w/ps. Disturbed. Scattered broken shell fragments between 47.10 and 47.60.

47.75 CLAY, silty, greyish brown, 5YR 3/2, scattered broken



Borehole/Well No.		Location HAMPSTEAD HEATH		NGR/Lat. & Long. 26455 86890	
TQ 28 NE /198		KB/Ground level +128.71m		Logged by P. J. STRANGE	
Stratigraphy	Carbonates Calc. Rj Calc. A Calc. L Average grain size C P G V C M F V S C	Sedimentary structures	Graphic lithology	Lithological description	
48				<p>Shell fragments throughout. Bioturbated. Discontinuous roughly horizontal silty layering at 48.35. Large carbonate nodules, 4-5 cm across at 48.80. Discontinuity bed at 49.26-49.32, pale clay below. Scattered pyrite patches, e.g. at 49.70. Silty band at 49.76. Smooth clay below 49.80. Silty between 51.10 and 51.20. Irregular shaped silty patches between 51.20 and base at 53.25.</p>	
49					
50					
51					
52				<p>SILT dark yellowish brown, 10YR 4/2, poorly laminated in part. Limestone nodules at 53.75 to 53.84. Fining downwards to base.</p>	
53					
54					
55					
56				<p>CLAY, pure, greyish brown, 5YR 3/2, uniform and structureless.</p>	
57					
58					
59					
60				<p>SILT, dark yellowish brown, 10YR 4/2, pale brown sandy wispy clayey between 58.40 and 59.10 vs. Sandy patches common between 58.20 and 58.35 and 60.30 and 60.60. Bioturbated.</p>	



Borehole/Well No.			Location		NGR/Lat. & Long.							
TQ 28 NW/198			HAMPSTEAD HEATH		26455 86890							
			KB/Ground level		Logged by							
			+ 128.71m		P. J. STRANGE							
Stratigraphy	Carbonates			Sedimentary structures	Graphic lithology	Lithological description						
	Calc. Rj	Calc. A	Calc. L									
	Average grain size											
	C	P	G	V	C	M	F	V	S	I	C	
60												
61												
62												
63												
64												
65												
66												
67												

60.80

CLAY, greyish brown, 5 YR 3/2, irregular shaped silty particles, generally fining downwards. Scattered grains of glauconite around 62.20. Disturbed.

62.40

SILT, dark yellowish brown, 10 YR 4/2, with scattered clay and sandy lumps. Disturbed, generally fining downwards.

63.60

CLAY, greyish brown, 5 YR 3/2, silty at top but fining downwards to structureless fine clay below 64.25. Pyrite nodules at 64.40.

BOTTOM OF BOREHOLE AT 66.74