

Mineral Assessment Appendix C - Historic GI



SU 90 SW 51

9454 0470

Eastergate

Block G

Surface level +9.3 m
Water struck at +7.8 m
September 1981

Overburden 1.5 m
Mineral 1.4 m
Bedrock 2.1 m+

LOG

Geological classification	Lithology	Thickness m	Depth m
British Geological Survey	Soil	0.5	0.3
Brickearth	Clay, silty, mottled brown, with sand and pebbles near base	1.0	1.5
Raised Beach Deposits (younger)	'Clayey' pebbly sand Gravel: coarse and fine; flint (some white and porous) with some chalk, sandstone and ironstone Sand: fine with some medium and coarse Fines: silt	1.4	2.9
British Geological Survey	London Clay	2.1+	5.0

GRADING

Mean for deposit percentages			Depth below surface (m)	Percentages						
Fines	Sand	Gravel		Fines	Sand			Gravel		
					+4 -1	+1 -1	+1 -4	+4 -16	+16 -64	+64 mm
11	75	14	1.5-2.5	13	69	2	2	7	7	0
			2.5-2.9	8	65	7	5	7	8	0
			Mean	11	68	4	3	7	7	0

Surface level +8.0 m
Water struck at +6.0 m
September 1981

British Geological Survey

Overburden 1.5 m
Mineral 1.9 m
Bedrock 11.6 m+

LOG

Geological classification	Lithology	Thickness m	Depth m
British Geological Survey	Soil	0.2	0.2
Brickearth	Silt, clayey, brown, with pebbles near base	1.3	1.5
Raised Beach Deposits (younger)	a 'Clayey' pebbly sand Gravel: fine and coarse; flint with chalk Sand: fine with some coarse and medium Fines: silt, brown	1.0	2.5
British Geological Survey	b Sandy gravel Gravel: fine with coarse, angular to well rounded; flint (some white and porous), chalk, limestone and other rock fragments Sand: fine, coarse and medium Fines: silt, brown	0.9	3.4
British Geological Survey	London Clay	11.6+	15.0

GRADING

	Mean for deposit percentages			Depth below surface (m)	Percentages						
	British Geological Survey				British Geological Survey				British Geological Survey		
	Fines	Sand	Gravel		Fines	Sand			Gravel		
					-4	+4 -4	+4 -1	+1 -4	+4 -16	+16 -64	+64 mm
a	14	75	11	1.5-2.5	14	66	5	4	7	4	0
b	6	56	38	2.5-3.4	6	23	16	17	28	10	0
a+b	10	66	24	1.5-3.4	10	46	10	10	17	7	0
British Geological Survey				British Geological Survey				British Geological Survey			

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Surface level +9.0 m
Water struck at +6.3 m
September 1981

Overburden 2.6 m
Mineral 2.0 m
Bedrock 3.4 m+

LOG

Geological classification	Lithology	Thickness m	Depth m
Soil		0.2	0.2
Brickearth	Clay, brown, silty, with pebbles near base	1.4	1.6
Head Gravel	Silt, chalky, with abundant chalk pebbles	1.0	2.6

Raised Beach Deposits (younger)

a Pebbly sand	Gravel: fine and coarse, angular to subrounded; flint with chalk Sand: fine with traces of medium and coarse; quartz Fines: silt	1.0	3.6
b Sandy gravel	Gravel: coarse and fine, angular to subrounded; flint (some white and porous), chalk, limestone and traces of other rock fragments Sand: fine with some coarse and medium; quartz and rock fragments Fines: silt	1.0	4.6

London Clay

Clay, dark olive grey	3.4+	8.0
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GRADING

	Mean for deposit percentages			Depth below surface (m)	Percentages						
	Fines	Sand	Gravel		Fines				Gravel		
					-1/4	+1/4-1/2	+1/2-1	+1-4	+4-16	+16-64	+64 mm
a	6	86	8	2.6-3.6	6	83	2	1	5	3	0
b	4	49	47	3.6-4.6	4	33	6	10	22	25	0
a+b	5	68	27	2.6-4.6	5	58	4	6	13	14	0