

BOREHOLE LOG

Project Northstowe				BOREHOLE No BHC024	
Job No 12170626	Date 25-06-07 25-06-07	Ground Level (m AOD) 9.820	Co-Ordinates (OS) E 540683.225 N 266142.541		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill	
0.40	JJV		0.40	0	↓	9.57	0.25	MADE GROUND: Grass over dark brown gravel with topsoil and rootlet matrix. Gravel is fine to medium angular to subangular bitumen-covered roadstone. 0.20 mbgl, flint and concrete also present.		MG		
0.80	JJV		0.80	0		9.17	0.65			MG		
1.00-1.50	SBPT	1,3,5 6,6,8 N=25			↓		(1.55)	MADE GROUND: Brown gravelly sand. Sand is medium to coarse. Gravel is fine to medium concrete, flint and rare bitumen covered roadstone.		TD		
2.00-2.45	SBT	1,2,1 2,3,4 N=10				7.62	2.20	Medium dense orange brown slightly clayey slightly gravelly SAND. Sand is fine to medium. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS).		TD		
2.50-3.00	BD					7.47	2.35	Firm orange brown sandy CLAY (TERRACE DEPOSITS).		TD		
3.00-3.50	SBPT	1,1,2 2,2,3 N=9	3.20	0	↓		(3.05)	Firm light grey rarely mottled orange slightly sandy slightly gravelly SILT. Gravel is fine subangular to subrounded flint (TERRACE DEPOSITS). 3.00 mbgl, becoming grey/brown mottled dark grey, with rare white shelly fossils.		TD		
3.20	JJV									TD		
4.00-4.40	U	35 blows								TD		
4.60	D									TD		
5.00	SBT	2,2,3 6,12,14 N=35			↓	4.42	5.40	Grey silty sandy GRAVEL. Gravel is fine to coarse, angular to subangular black flint (TERRACE DEPOSITS).		TD		
5.50-6.00	B					4.02	5.80	Soft grey CLAY (KIMMERIDGE CLAY).		KIM		
6.00	SBT	5,4,4 5,7,8 N=24						(1.20)				
6.50-7.00	B											
7.00-7.25	U	30 blows				2.82	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dot	From	To	Hours	From	To	
		5.40		1.86							

All dimensions in metres
 Scale 1:62.5

Contractor / Driller: _____ Method/Plant Used: Cable Percussive Rig
 Logged By: LF



WSP Environmental
One Queens Drive
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BOREHOLE LOG

Project Northstowe				BOREHOLE No BHC025	
Job No 12170626	Date 20-06-07 20-06-07	Ground Level (m AOD) 12.427	Co-Ordinates (OS) E 540611.523 N 266177.273		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.65-1.00	B					12.23	0.20	Grass over dark brown slightly gravelly, fine sand TOPSOIL. Gravel is fine to medium angular to subangular flint.		TPS	
0.70-0.80	JJJ					11.78	0.65	Stiff brown very sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
1.00-1.40	U	40 blows				(1.35)		Firm brown mottled orange brown sandy slightly gravelly CLAY. Gravel is fine angular to subrounded flint and chalk (TERRACE DEPOSITS).		TD	
1.60	D					10.43	2.00	Medium dense orange brown SAND and GRAVEL. Sand is medium to coarse. Gravel is fine to medium, angular to subrounded flint (TERRACE DEPOSITS).		TD	
2.00-2.45	SPT	3,3,3 4,3,4 N=14				(2.35)		3.00 - 3.20 mbgl, bands of soft orange/brown mottled grey slightly sandy clay.		TD	
3.00	CBT	1,1,1 1,3,3 N=8				8.08	4.35	Soft brown slightly gravelly SILT. Gravel is fine angular to subangular black flint (TERRACE DEPOSITS).		TD	
4.00-4.45	SPT	1,1,3 2,4,5 N=14				(1.15)		5.00 mbgl, very fine sand.		TD	
5.00-5.45	U	55 blows				6.93	5.50	Grey SAND and GRAVEL. Sand is medium to coarse. Gravel is fine to coarse angular to subrounded flint and chalk. Flint is mainly black (TERRACE DEPOSITS).		TD	
5.50	B					(2.60)				TD	
6.50	B					4.33	8.10	Stiff to very stiff blue to grey mottled brown CLAY (KIMMERIDGE CLAY).		KIM	
7.50	B				3.93	8.50					
8.10-8.50	B										
8.50-8.95	U	100 blows									

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
		2.00		1.60							

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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BOREHOLE LOG

Project Northstowe				BOREHOLE No BHC026	
Job No 12170626	Date 15-06-07 15-06-07	Ground Level (m AOD) 14.488	Co-Ordinates (OS) E 540618.883 N 265970.963		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1





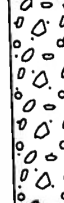

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	B					14.34	0.15	Grass over dark brown sandy clay TOPSOIL.		TPS	
0.50-1.00	JJV		0.50	0			(1.05)	Medium dense orange brown slightly gravelly sandy CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
1.00	SBT	2,5,6 5,4,4 N=19	1.20	0		13.29	1.20	Buff yellow fine to medium SAND and GRAVEL. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
1.20-1.50	B					12.69	1.80	Firm grey fine to medium SAND and GRAVEL. Gravel is fine to medium angular to rounded flint (TERRACE DEPOSITS).		TD	
1.20-1.50	JJV					12.49	2.00	Firm grey CLAY (TERRACE DEPOSITS).		TD	
2.00-2.40	SBT	1,2,3 4,5,4 N=16				12.09	2.40	Firm grey brown mottled orange sandy slightly gravelly CLAY with medium gravel sized pockets of siltstone. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
							(1.60)	Firm to stiff dark grey mottled orange CLAY with medium gravel sized pockets of fine light grey silt (KIMMERIDGE CLAY).		KIM	
3.65-4.00	SBT	2,3,6 6,7,9 N=28				10.49	4.00	Stiff dark grey CLAY (KIMMERIDGE CLAY).		KIM	
4.20	JJV		4.20	4.2							
4.75-5.10	U										
5.35	D						(3.00)			KIM	
6.20-6.70	SBT	2,3,6 6,7,9 N=28				7.49	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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BOREHOLE LOG











Project Northstowe				BOREHOLE No PTM004	
Job No 12170626	Date 20-06-07 20-06-07	Ground Level (m AOD) 10.054	Co-Ordinates (OS) E 540958.766 N 266154.839		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						9.80	0.25	Grass over brown sand TOPSOIL. Sand is fine to medium.		TPS	
							(1.15)	Brown slightly gravelly SAND. Sand is fine to medium. Gravel is fine to medium angular to subangular flint. Becoming orange brown with depth (TERRACE DEPOSITS).		TD	
						8.65	1.40	Orange brown gravelly SAND. Sand is medium to coarse. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
							(1.80)				
						6.85	3.20	Soft grey slightly gravelly very sandy SILT. Sand is fine. Gravel is fine subangular black flint (TERRACE DEPOSITS).		TD	
						6.55	3.50	Orange brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint and quartzite. Fine to coarse subangular to rounded flint and quartzite gravel from 5m (TERRACE DEPOSITS).		TD	
							(1.90)				
						4.65	5.40	Very stiff blue grey CLAY (KIMMERIDGE CLAY).		KIM	
							(0.60)				
						4.05	6.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC001	
Job No 12170626	Date 23-08-06 30-08-06	Ground Level (m AOD) 9.309	Co-Ordinates (OS) E 540865.907 N 266364.906		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.30-0.50	WJV					9.16	0.15	MADE GROUND: CONCRETE (no rebar).		MG	
						9.11	0.20	MADE GROUND: TARMAC and tar-bound gravel.		MG	
0.60-0.90	WJV					8.91	0.40	MADE GROUND: Brown gravelly sand. Gravel is fine to medium angular to subangular flint. Strong hydrocarbon odour.		MG	
						8.86	0.45			MG	
						8.51	0.80	MADE GROUND: Tarmac (Bitumen)		MG	
						8.41	0.90	MADE GROUND: Dark brown mottled orange black slightly gravelly clay. Gravel is fine subangular flint.		TD	
							(1.10)	Firm light grey fine sandy CLAY (TERRACE DEPOSITS).		TD	
						7.31	2.00	Light brown gravelly coarse SAND. Gravel is fine to medium angular to subangular flint and chalk. Becoming brown and black and slightly clayey with a slight hydrocarbon odour from 1.2m (TERRACE DEPOSITS).		TD	
							(1.00)			TD	
						6.31	3.00	Brown and grey gravelly SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
							(3.40)	Light brown fine to medium SAND and GRAVEL. Gravel is fine to coarse subangular to angular with frequent cobbles of flint. Becoming very gravelly fine to medium sand with no cobbles from 4m (TERRACE DEPOSITS).		TD	
						2.91	6.40			TD	
							(0.60)	Light grey slightly silty very gravelly fine to medium SAND. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						2.31	7.00			TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
30-08-06		2.00	20		1.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By JC/RLC		

BOREHOLE LOG







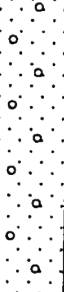


Project Northstowe				BOREHOLE No WWC002	
Job No 12170626	Date 18-09-06 18-09-06	Ground Level (m AOD) 9.134	Co-Ordinates (OS) E 540938.872 N 266322.786		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA				Legend	Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Reduced Level	Depth (Thickness)	DESCRIPTION				
					9.03	0.10	Grass over dark brown sandy TOPSOIL.		TPS		
					8.43	0.70	Dark brown fine to medium SAND (TERRACE DEPOSITS).		TD		
0.70-1.00	JJJVV				7.93	1.20	Brown slightly gravelly fine to coarse SAND. Gravel if fine angular to subangular flint (TERRACE DEPOSITS).		TD		
2.00-2.50	JJJVV						Buff brown slightly gravelly medium to coarse SAND. Gravel is fine to medium angular to subangular flint. Becoming sand and gravel from 2.0m. Becoming slightly gravelly sand from 3.0m. Gravel becomes fine from 4.0m (TERRACE DEPOSITS).		TD		
4.00-4.50	JJJVV					(5.80)					
					2.13	7.00					

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
			Strike	Minutes	Standing	Casing					Groundwater encountered at 2.0m - very slow.
19-09-06		2.00	20	1.81	1.75						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF		

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC003	
Job No 12170626	Date 11-09-06 11-09-06	Ground Level (m AOD) 9.411	Co-Ordinates (OS) E 540945.100 N 266295.516		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1







SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
					↓	9.21	0.20	MADE GROUND: Concrete (no rebar).		MG	
0.50-1.00	JJVV						(0.80)	MADE GROUND: Brown gravelly sand. Gravel is fine to coarse subangular to subrounded flint. Slight hydrocarbon and chemical odour.		MG	
1.00-1.50	JJJVVV					8.41	1.00	Brown slightly clayey gravelly SAND. Gravel is fine to coarse angular to subangular flint. Strong hydrocarbon and solvent odour (TERRACE DEPOSITS).		TD	
1.60	JJV					7.81	1.60	Very soft brown stained black slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Moderate hydrocarbon and solvent odour (TERRACE DEPOSITS).		TD	
1.70	JJJVV					7.71	1.70			TD	
2.00-2.30	JJJVVV					6.91	2.50	Brown slightly gravelly SAND. Gravel is fine to medium angular to subangular flint. Strong hydrocarbon and solvent odour. Becoming very gravelly brown/grey/black from 1.8m (TERRACE DEPOSITS).		TD	
							(3.50)	Brown SAND and GRAVEL. Gravel is fine to medium angular to subangular flint. Slight hydrocarbon solvent odour to 4m (TERRACE DEPOSITS).		TD	
4.50-5.00	JJV					3.41	6.00	Brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						2.41	7.00			TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
12-09-06		2.30	20	2.19	2.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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BOREHOLE LOG









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Job No 12170626	Date 13-09-06 13-09-06	Ground Level (m AOD) 9.193	Co-Ordinates (OS) E 540909.846 N 266307.337		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.40-1.00	JJJV				9.04	0.15	MADE GROUND: Concrete (no rebar).		MG	
						(1.05)	MADE GROUND: Firm brown sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular flint and brick.		MG	
3.00-3.50	JJJV				7.99	1.20	Brown slightly gravelly fine to medium SAND. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
					7.19	2.00	Buff brown fine to coarse SAND and GRAVEL. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
					6.19	3.00	Buff brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint. Becoming light brown from 3.0m (TERRACE DEPOSITS).		TD	
6.50-7.00	JJJV				4.19	5.00	Light brown and grey very gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded flint. Becoming grey from 6.0m (TERRACE DEPOSITS).		TD	
						(2.00)			TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
13-09-06		2.00	20	1.85	1.80						Groundwater encountered at 2.0m - very slow.
All dimensions in metres Scale 1:62.5						Contractor / Driller			Method/Plant Used Cable Percussive Rig		

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC005	
Job No 12170626	Date 31-08-06 31-08-06	Ground Level (m AOD) 9.283	Co-Ordinates (OS) E 540886.153 N 266275.681		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA								
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill		
1.30	JJV					8.78	(0.50) 0.50	Grass over dark brown slightly sandy slightly gravelly clay TOPSOIL with frequent rootlets. Gravel is fine to medium angular to subangular flint.		TPS			
						7.98	(0.80) 1.30	Brown sandy slightly gravelly CLAY with frequent medium gravel sized pockets of brown sand and rare rootlets. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD			
							(1.70)		Brown orange slightly clayey slightly gravelly SAND. Gravel is fine to medium angular to subangular flint with rare coarse subangular to angular flint gravel. With rare cobble size pockets of brown orange clay from 2.0m (TERRACE DEPOSITS).			TD	
							6.28	3.00					
							(1.00)		Light brown gravelly fine SAND with rare pockets of brown sandy clay. Gravel is fine angular to subangular flint with rare pockets of brown sandy clay (TERRACE DEPOSITS).			TD	
							5.28	4.00					
				(2.80)		Light buff brown fine to medium SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint with rare cobbles (TERRACE DEPOSITS).		TD					
				2.48	6.80								
				2.28	7.00			Stiff grey CLAY (KIMMERIDGE CLAY).		KIM			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
31-08-06		2.00	20		1.50						
31-08-06		3.00	20	2.15	2.80						

Groundwater seepage at 2.0m. Groundwater encountered at 2.8m - moderate.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC006	
Job No 12170626	Date 04-09-06 04-09-06	Ground Level (m AOD) 9.313	Co-Ordinates (OS) E 540832.455 N 266280.360		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1


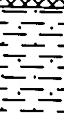
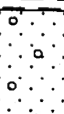





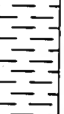
SAMPLES & TESTS						STRATA					
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.80-1.30	JJJV				↓	8.91	0.40	MADE GROUND: Concrete (no rebar).		MG	
						(0.90)		Dark brown sandy CLAY with rootlets. Becoming mottled orange brown and slightly gravelly from 0.8m. Gravel is fine to medium subangular flint and mixed lithology (TERRACE DEPOSITS).		TD	
2.00-2.50	JJJV				↓	8.01	1.30	Yellow and brown gravelly SAND. Gravel is fine to medium angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						(0.70)		Brown slightly clayey slightly gravelly fine SAND. Gravel is fine subangular flint. Becoming light brown/buff grey medium to coarse sand and subangular to rounded flint gravel from 4.8m (TERRACE DEPOSITS).		TD	
4.80-5.50	JJJV				↓	(3.30)				TD	
						4.01	5.30	Light buff brown and grey gravelly medium to coarse SAND. Gravel is medium to coarse subangular to rounded flint. Becoming very clayey with depth (TERRACE DEPOSITS).		TD	
						3.31	6.00	Stiff dark grey CLAY (KIMMERIDGE CLAY).		KIM	
						2.31	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS Groundwater seepage at 2.0m. Groundwater encountered at 3.3m - slow.
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
04-09-06		2.00									
04-09-06		3.30	20	2.23	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC007	
Job No 12170626	Date 04-09-06 04-09-06	Ground Level (m AOD) 9.274	Co-Ordinates (OS) E 540817.187 N 266257.615		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.10	JJV					8.77	(0.50) 0.50	MADE GROUND: Grass over dark brown sandy clay topsoil with roots and rare brick and charcoal fragments.		MG	
							(1.00)	Stiff brown and orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded flint (TERRACE DEPOSITS).		TD	
1.60	JJV					7.77	1.50				
							(1.00)	Brown and orange brown slightly gravelly fine to coarse SAND. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						6.77	2.50				
						6.17	(0.60) 3.10	Soft light grey brown very fine sandy CLAY (TERRACE DEPOSITS).		TD	
3.15	JJV					5.77	3.50	Soft light brown stained black fine sandy SILT (TERRACE DEPOSITS).		TD	
						5.27	(0.50) 4.00	Brown fine SAND (TERRACE DEPOSITS).		TD	
4.10	JV					4.87	4.40	Soft brown fine sandy CLAY with rare orange brown sand flecks and black bands (natural mottling or staining) (TERRACE DEPOSITS).		TD	
						4.27	(0.60) 5.00	Stiff grey mottled brown CLAY (KIMMERIDGE CLAY).		KIM	
							(2.00)	Stiff light grey mottled light blue grey CLAY with rare fine to coarse moderately weak to moderately strong siltstone gravel. Becoming fissured from 5.5m (KIMMERIDGE CLAY).		KIM	
						2.27	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
05-09-06		3.50	20	2.68	3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JMC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC008	
Job No 12170626	Date 01-09-06 01-09-06	Ground Level (m AOD) 9.286	Co-Ordinates (OS) E 540848.097 N 266255.651		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA				Geology	Instrument/Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
					8.94	0.35	MADE GROUND: Concrete (no rebar).		MG	
1.00	JJV					(1.45)	MADE GROUND: Brown slightly sandy slightly gravelly clay with frequent medium gravel sized pockets of dark brown and black sand. Gravel is fine to coarse angular to subangular flint and red brick with occasional cobbles of red bricks.		MG	
1.80	JJV				7.49	1.80	Firm brown very sandy slightly gravelly CLAY with rare thinly bedded bands of flint gravel and rare medium gravel size pockets of black sand. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
					6.59	2.70	Firm with rare brown fine sand laminations grey slightly gravelly CLAY. Gravel is fine subangular to angular flint (TERRACE DEPOSITS).		TD	
					6.29	3.00	Brown slightly gravelly fine SAND with frequent cobble sized pockets of grey clay. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
					5.39	3.90	Grey fine SAND and GRAVEL with frequent cobble size pockets of grey clay. Gravel is fine to medium flint (TERRACE DEPOSITS).		TD	
					4.29	5.00	Grey fine very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
5.00-5.50	JJV				3.89	5.40	Very stiff to hard grey CLAY (KIMMERIDGE CLAY).		KIM	
					2.79	6.50	Very stiff to hard grey slightly gravelly CLAY. Gravel is fine to coarse siltstone (KIMMERIDGE CLAY).		KIM	
					2.29	(0.50) 7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
01-09-06		3.00	20	2.12	2.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC009	
Job No 12170626	Date 06-09-06 06-09-06	Ground Level (m AOD) 9.462	Co-Ordinates (OS) E 540987.519 N 266199.869		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-1.00	JJV					9.06	0.40	MADE GROUND: Grass over brown sandy slightly gravelly topsoil with rootlets. Gravel is fine to medium angular to subangular flint, chalk and red brick.		MG	
							(0.80)	Orange brown slightly clayey slightly gravelly SAND with rootlets. Gravel is fine to medium angular to subangular flint and quartzite gravel (TERRACE DEPOSITS).		TD	
1.20-1.40	JJV					8.26	1.20	Brown slightly gravelly SAND with bands of grey fine sand. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						8.06	1.40	Light brown slightly clayey slightly gravelly SAND. Gravel is fine to medium subangular flint becoming gravelly from 1.8m (TERRACE DEPOSITS).		TD	
							(1.60)				
3.00-3.50	JJV					6.46	3.00	Firm thinly laminated light grey/brown sandy slightly gravelly CLAY and SILT (TERRACE DEPOSITS).		TD	
							(0.80)				
						5.66	3.80	Light grey and grey slightly clayey medium to coarse SAND (TERRACE DEPOSITS).		TD	
						5.26	4.20	Brown very sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint. Becoming sandy from 4.8m with rare sandstone and quartzite (TERRACE DEPOSITS).		TD	
5.50-6.00	JJV						(2.40)				
						2.86	6.60				
						2.46	7.00	Very stiff grey CLAY (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
06-09-06		3.80	20								
06-09-06		4.20	20	2.88	4.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC011	
Job No 12170626	Date 29-08-06 29-08-06	Ground Level (m AOD) 9.284	Co-Ordinates (OS) E 540827.616 N 266167.336		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.20	JJV					8.88	0.40	Grass over brown slightly gravelly clay TOPSOIL with frequent rootlets. Gravel is fine to medium angular to subangular flint.		TPS	
							(1.60)	Firm brown orange gravelly CLAY with frequent coarse gravel size pockets of brown sand and coarse gravel size pockets of buff silt. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						7.28	2.00	Firm brown gravelly CLAY with frequent coarse gravel size pockets of grey clay. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						6.48	2.80	Firm grey CLAY with rare thinly bedded brown sand lenses (TERRACE DEPOSITS).		TD	
						5.78	3.50	Firm light grey slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						5.08	4.20	Grey and brown SAND and GRAVEL. Gravel is fine to medium angular to subangular flint and chalk and rare cobbles of flint (TERRACE DEPOSITS).		TD	
4.20	JJV					3.98	5.30	Firm grey CLAY with rare fine gravel size pockets of brown sand (KIMMERIDGE CLAY).		KIM	
						2.78	6.50	Very stiff grey gravelly CLAY. Gravel is fine to coarse subangular to angular siltstone (KIMMERIDGE CLAY).		KIM	
						2.28	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt.	From	To	Hours	From	To	
29-08-06		2.00			1.80						
29-08-06		4.20	20	2.32	4.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC012	
Job No 12170626	Date 13-09-06 13-09-06	Ground Level (m AOD) 9.553	Co-Ordinates (OS) E 540820.220 N 266199.106		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS						STRATA					
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.40-1.00	JJJVV					9.40	0.15	MADE GROUND: Concrete (no rebar).		MG	
							(0.95)	Firm dark brown mottled black (organic) sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).		TD	
						8.45	1.10	Stiff light grey mottled orange brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Becoming very stiff from 1.8m. Becoming gravelly from 2.2m (TERRACE DEPOSITS).		TD	
2.20-2.40	JJJVV					7.05	2.50	Soft grey brown sandy SILT with rare fine brown rootlets and loose organic material (TERRACE DEPOSITS).		TD	
						6.75	2.80	Brown fine sandy SILT with organic material. Becoming slightly gravelly from 3m. Gravel is fine angular flint (TERRACE DEPOSITS).		TD	
							(1.50)				
						5.25	4.30	Grey very sandy SILT. Sand is fine. (TERRACE DEPOSITS).		TD	
4.60-4.90	JJV					4.65	4.90	Stiff grey slightly sandy gravelly SILT. Gravel is fine to medium angular flint and grey siltstone (KIMMERIDGE CLAY).		KIM	
						4.25	5.30	Stiff to very stiff grey slightly gravelly CLAY. Gravel is fine angular siltstone (KIMMERIDGE CLAY).		KIM	
							(1.70)				
6.50-7.00	JJV					2.55	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
13-09-06		4.90	20		3.00						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC013	
Job No 12170626	Date 30-08-06 30-08-06	Ground Level (m AOD) 9.501	Co-Ordinates (OS) E 540800.930 N 266180.696		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.80	JJV				↓	9.10	0.40	Grass over brown medium gravelly clay TOPSOIL with frequent rootlets. Gravel is medium angular to subangular chalk.		TPS	
		8.70	0.80	Firm brown slightly sandy slightly gravelly CLAY with rare rootlets. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).			TD				
						(0.70)		Firm light grey mottled brown orange slightly sandy slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		TD	
						8.00	1.50	Firm light grey slightly sandy slightly gravelly CLAY with frequent cobble size pockets of brown sand (TERRACE DEPOSITS).		TD	
						(0.90)					
2.40	JJV				↓	7.10	2.40	Firm grey slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded chalk (TERRACE DEPOSITS).		TD	
							(1.10)		Firm light grey slightly gravelly SILT. Gravel is fine angular to subangular flint (TERRACE DEPOSITS).		
						6.00	3.50				
						(1.00)					
						5.00	4.50	Soft grey very gravelly CLAY. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
						(0.50)	5.00				
						4.50	5.00	Grey and brown sandy GRAVEL. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
						(0.70)	5.70				
						3.80	5.70	Very stiff grey CLAY (KIMMERIDGE CLAY).		KIM	
						(1.30)					
						2.50	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
		Strike	Minutes	Standing	Casing						
30-08-06		4.50	20	2.09	4.20						

Groundwater encountered at 4.5m - fast.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF/RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC014	
Job No 12170626	Date 05-09-06 05-09-06	Ground Level (m AOD) 9.363	Co-Ordinates (OS) E 540760.910 N 266191.818		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA				Geology	Instrument/Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.40-0.60	JJJV				9.11	0.25	MADE GROUND: Concrete with rebar at base.		MG	
					8.96	0.40	MADE GROUND: Gravel subbase.		MG	
1.80-2.00	JJV				8.26	1.10	Firm brown mottled orange brown slightly sandy CLAY (TERRACE DEPOSITS).		TD	
					7.56	1.80	Firm to stiff light grey mottled orange sandy slightly gravelly CLAY. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS).		TD	
2.70-2.80	JJV				6.66	2.70	Stiff light grey SILT and CLAY with rare maroon root channels (TERRACE DEPOSITS).		TD	
					4.96	4.40	Dark grey and white sandy GRAVEL. Gravel is fine to coarse angular to rounded flint (TERRACE DEPOSITS).		TD	
3.10-3.55	U	16 blows			5.86	3.50	Dark brown clayey fibrous PEAT with woody remains and bands of light brown silt with rare snail like shells (TERRACE DEPOSITS).		TD	
					4.46	4.90	Firm light blue grey slightly sandy SILT and CLAY (TERRACE DEPOSITS).		TD	
4.90-5.00	JJV				3.86	5.50	Stiff dark grey slightly gravelly CLAY (KIMMERIDGE CLAY).		KIM	
					2.36	7.00	Stiff fissured dark grey CLAY (KIMMERIDGE CLAY).		KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											Groundwater encountered at 4.4m - fast.
Date	Time	Strike	Minutes	Standing	Casing						
05-09-06		4.40	20	1.73	4.00						

All dimensions in metres Scale 1:62.5 Contractor / Driller Method/Plant Used Cable Percussive Rig Logged By JMC



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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC015	
Job No 12170626	Date 04-09-06 04-09-06	Ground Level (m AOD) 9.559	Co-Ordinates (OS) E 540782.897 N 266209.974		Sheet 1 of 1
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		





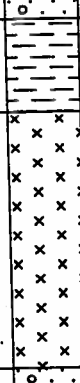
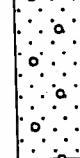
SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.55	JJVV					9.06	(0.50) 0.50	Grass over dark brown sandy slightly gravelly clay TOPSOIL. Gravel is fine to coarse angular to subrounded flint.		TPS	
						8.66	0.90	Firm orange brown very sandy CLAY. Sand is fine (TERRACE DEPOSITS).		TD	
2.65	JJVV					(1.00)		Light brown and orange brown slightly silty slightly gravelly SAND. Sand is fine. Gravel is fine to medium angular flint (TERRACE DEPOSITS).		TD	
						7.66	1.90	Brown slightly clayey sandy GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
						6.96	2.60	Stiff light grey slightly sandy slightly gravelly CLAY with rare black mottling. Gravel is fine to medium subangular to rounded flint (TERRACE DEPOSITS).		TD	
5.00	JV					6.46	(0.50) 3.10	Stiff grey fissured CLAY. Becoming slightly gravelly with rare pyrite and shells from 4.0m. Gravel is fine to medium subrounded to rounded flint and chalk. No shells or pyrite from 5.0m (KIMMERIDGE CLAY).		KIM	
						2.56	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
04-09-06		1.90			1.80						
04-09-06		4.00			3.50						
04-09-06		5.00			4.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By JMC
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BOREHOLE LOG













Project Northstowe				BOREHOLE No WWC016	
Job No 12170626	Date 11-09-06 11-09-06	Ground Level (m AOD) 10.006	Co-Ordinates (OS) E 540606.099 N 266140.758		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA				Geology	Instrument/Backfill
Depth	Type No	Test Result	PID Depth	Result ppmv	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend		
0.50-1.00	JJJV				9.51	(0.50) 0.50	Grass over brown sandy TOPSOIL.		TPS	
					8.81	(0.70) 1.20	Brown slightly clayey slightly gravelly fine SAND. Gravel is fine to medium angular to subrounded flint, chalk and quartzite (TERRACE DEPOSITS).		TD	
2.10-2.30	JJJV				7.51	(1.30) 2.50	Orange slightly gravelly SAND with a moderate hydrocarbon odour. Sand is fine to medium. Gravel is fine to medium subangular flint. Becoming slightly clayey from 2.1m (TERRACE DEPOSITS).		TD	
					6.71	(0.80) 3.30	Soft to firm fissured light grey CLAY with brown orange fine sand lenses (TERRACE DEPOSITS).		TD	
					4.51	(2.20) 5.50	Firm fissured grey SILT with frequent black organic material and shell fragments (gastropod) (TERRACE DEPOSITS).		TD	
					3.01	(1.50) 7.00	Grey medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
11-09-06		3.10			1.50						
11-09-06		5.50	20	2.34	4.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By LF/RLC		

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC017	
Job No 12170626	Date 11-09-06 11-09-06	Ground Level (m AOD) 10.200	Co-Ordinates (OS) E 540567.086 N 266140.563		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA							
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill	
0.60-1.20	JJJJVVV					9.90	0.30	MADE GROUND: Brown slightly clayey slightly gravelly sand. Gravel is medium to coarse angular to subrounded flint and quartzite.		MG		
						9.60	0.60					
2.00-2.50	JJJJVVV						(2.10)	MADE GROUND: Brown slightly sandy gravel. Gravel is medium to coarse angular to subangular flint, brick and quartzite. MADE GROUND: Soft to firm brown light grey mottled orange with black staining slightly sandy slightly gravelly clay. Gravel is medium to coarse subangular to subrounded flint and brick. Strong hydrocarbon odour and sulphur odour. Becoming sandy slightly gravelly clay from 2.0m.		MG		
							7.50					2.70
3.10-3.50	JJJJV						(1.90)	Soft to firm fissured light grey CLAY with rare brown orange fine sand lenses. Slight hydrocarbon odour (TERRACE DEPOSITS).		TD		
4.60-5.00	JJVV						(0.90)	Firm fissured grey SILT and CLAY with frequent organic material, wood with fine dark grey sand pockets (TERRACE DEPOSITS).		TD		
							4.70					5.50
6.60-7.00	JJVV						(1.10)	Grey medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD		
							3.60					6.60
							3.20	7.00	Grey very gravelly medium to coarse SAND. Gravel is fine to coarse flint and chalk (TERRACE DEPOSITS).		TD	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
11-09-06		5.50	20	2.68	4.50						

Groundwater encountered at 5.5m - fast.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC018	
Job No 12170626	Date 08-09-06 08-09-06	Ground Level (m AOD) 10.589	Co-Ordinates (OS) E 540566.070 N 266113.411		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/ Backfill
0.00-0.60	B						(0.60)	Grass over brown sandy slightly gravelly TOPSOIL. Gravel is fine to coarse subangular flint.		TPS	
0.30-0.60	JJV					9.99	0.60			TD	
0.60-1.00	B					9.59	1.00	Brown orange slightly clayey slightly gravelly fine SAND. Gravel is fine angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
1.00-1.50	JVVB	2.2.2 3.3.3 N=11					(1.80)	Firm light grey mottled orange brown SILT and CLAY with frequent medium gravel sized pockets of fine orange slightly gravelly sand. Gravel is fine subangular to subrounded flint gravel (TERRACE DEPOSITS).		TD	
2.00-2.45	U	31 blows				7.79	2.80			TD	
2.70-3.00	JVVB	1.1.1 2.2.2 N=7				7.39	3.20	Loose orange brown slightly clayey slightly gravelly fine to medium SAND. Gravel is medium angular to subangular flint (TERRACE DEPOSITS).		TD	
3.20-3.50	B						(2.00)	Soft to firm dark grey purple mottled red CLAY. Becoming firm from 4.7m and very gravelly from 5.2m. Gravel is coarse angular to subangular flint (TERRACE DEPOSITS).		TD	
3.80-4.00	JVVB						(1.80)			TD	
4.00-4.45	U	21 blows				5.39	5.20	Medium dense grey light grey sandy GRAVEL. Sand is medium to coarse, gravel is fine to coarse angular to subrounded flint. Becoming fine to medium sand and gravel with depth (TERRACE DEPOSITS).		TD	
4.70	D						(1.80)			TD	
5.00	D	2.2.4 4.4.4 N=16					(1.80)			TD	
5.20-5.50	B						(1.80)			TD	
6.00-6.50	B	2.2.3 4.5.6 N=18					(1.80)			TD	
6.50-7.00	JVVB					3.59	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
08-09-06		5.20	20	2.38	4.50						
All dimensions in metres Scale 1:62.5			Contractor / Driller			Method/Plant Used Cable Percussive Rig			Logged By RLC		

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC019	
Job No 12170626	Date 07-09-06 07-09-06	Ground Level (m AOD) 9.773	Co-Ordinates (OS) E 540859.677 N 266099.614		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.00-0.50	JJVB					9.27	(0.50) 0.50	Grass over brown slightly gravelly SAND. Gravel is fine to medium subrounded to rounded flint and chalk (TERRACE DEPOSITS).		TD	
0.50-1.10	JJVB							Medium dense brown, mottled orange and grey clayey slightly gravelly fine SAND. Sand is fine. Gravel is fine to medium subangular to subrounded flint and fine chalk (TERRACE DEPOSITS).		TD	
1.20		1,1,3 3,2,3 N=11					(1.50)				
1.30-1.70	B					7.77	2.00				
2.00-2.30	JJVB	2,2,2 3,2,2 N=9						Firm to stiff light grey slightly sandy slightly gravelly CLAY with fine to coarse gravel size pockets of orange grey fine to medium sand (TERRACE DEPOSITS).		TD	
2.30-2.50	B					6.77	(1.00) 3.00				
3.70	D							Firm grey slightly fine to medium sandy slightly gravelly CLAY. Gravel is fine to medium angular to subangular flint. Becoming gravelly from 4.6m with frequent medium gravel size pockets of peat and wood. Becoming stiff from 5.8m (no gravel and no sand) (TERRACE DEPOSITS).		TD	
4.00-4.50	B	1,1,2 3,5,5 N=15									
4.60-5.00	B										
5.00	JJVB	3,3,3 5,5,5 N=18					(4.00)				
5.10-5.55	B										
5.80-6.20	B										
7.00	D					2.77	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
07-09-06		4.60	20	2.81	4.50						

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By RLC
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC019A	
Job No 12170626	Date 15-06-07 15-06-07	Ground Level (m AOD) 11.876	Co-Ordinates (OS) E 540848.178 N 266067.730		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.65-1.00	JJV				↓	11.78	0.10	Grass over TOPSOIL.	TPS		
						11.48	0.40	Orange brown clayey SAND with frequent rootlets (TERRACE DEPOSITS).	TD		
2.70-3.70	JJV				↓	(2.30)		Orange brown clayey SAND with rare rootlets. Becoming gravelly with fine to medium angular to rounded flint from 0.65m and frequent medium gravel sized pockets of light grey silt with orange mottling from 1.3m (TERRACE DEPOSITS).	TD		
						9.18	2.70	Dark grey CLAY with rare pockets of light grey silt and rare medium gravel sized pockets of orange sand (TERRACE DEPOSITS).	TD		
						8.18	3.70	Light grey slightly sandy SILT with thin laminations of orange coarse sand (TERRACE DEPOSITS).	TD		
						7.08	4.80	Brown very sandy GRAVEL. Gravel is fine to medium angular to subangular flint (TERRACE DEPOSITS).	TD		
						6.28	5.60	Very stiff grey mottled orange brown slightly gravelly CLAY. Gravel is fine angular to subrounded rust coloured unidentified mineral and flint (KIMMERIDGE CLAY).	KIM		
						5.88	6.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
15-06-07		2.30									
All dimensions in metres Scale 1:62.5				Contractor / Driller		Method/Plant Used Cable Percussive Rig				Logged By CW / LF	



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BOREHOLE LOG







Project Northstowe				BOREHOLE No WWC021	
Job No 12170626	Date 24-08-06 24-08-06	Ground Level (m AOD) 9.856	Co-Ordinates (OS) E 540801.931 N 266055.211		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships	Sheet 1 of 1	

SAMPLES & TESTS					STRATA				Geology	Instrument/ Backfill	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION			Legend
0.20	JJJJV					9.46	0.40	MADE GROUND: Grass over brown slightly gravelly clay topsoil. Gravel is fine angular to subangular flint.		MG	
							(0.70)	MADE GROUND: Brown orange gravelly clay. Gravel is fine to coarse angular to subangular flint and chalk.		MG	
						8.76	1.10	Light buff brown slightly gravelly CLAY with frequent thinly bedded brown orange sand lenses. Gravel is fine to medium angular flint and chalk (TERRACE DEPOSITS).		TD	
2.00	JJJJV						(2.40)				
						6.36	3.50	Orange brown medium to coarse SAND and GRAVEL. Gravel is fine to coarse angular to subangular flint. Becoming gravelly sand from 4.5m (TERRACE DEPOSITS).		TD	
						4.66	5.20	Stiff grey slightly gravelly CLAY. Gravel is fine angular chalk (KIMMERIDGE CLAY).		KIM	
							(1.80)				
						2.86	7.00				

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						
24-08-06		3.50	20	2.07	3.00						
All dimensions in metres Scale 1:62.5				Contractor / Driller		Method/Plant Used Cable Percussive Rig				Logged By LF/RLC	

BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC022	
Job No 12170626	Date 14-09-06 14-09-06	Ground Level (m AOD) 10.100	Co-Ordinates (OS) E 540799.390 N 266031.349		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					Water	STRATA					
Depth	Type No	Test Result	PID Depth	Result ppmv		Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
						9.80	0.30	MADE GROUND: Grass over topsoil.		MG	
						9.60	0.50	MADE GROUND: Dark brown slightly gravelly clay. Gravel is fine to medium angular to subangular flint and tarmac.		MG	
						(0.70)		Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subangular flint and chalk (TERRACE DEPOSITS).		TD	
						8.90	1.20				








Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
Date	Time	Strike	Minutes	Standing	Casing						

Groundwater seepage at 2.6m. Groundwater encountered at 3.8m - moderate. Borehole terminated due to drainage pipe at 1.2 m bgl..

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used Cable Percussive Rig	Logged By LF
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BOREHOLE LOG

Project Northstowe				BOREHOLE No WWC022A	
Job No 12170626	Date 14-09-06 14-09-06	Ground Level (m AOD) 10.147	Co-Ordinates (OS) E 540793.390 N 266031.349		
Supervising Engineer JMC / LF / CW / RLC			Client Gallagher Estates & English Partnerships		Sheet 1 of 1

SAMPLES & TESTS					STRATA						
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thickness)	DESCRIPTION	Legend	Geology	Instrument/Backfill
0.50-0.80	JJJV				↓	9.65	(0.50) 0.50	Grass over brown very gravelly fine to coarse SAND. Gravel is fine to medium angular to subrounded quartzite and flint (TERRACE DEPOSITS).		TD	
						9.35	0.80	Brown very sandy GRAVEL. Gravel is fine to medium angular to subrounded flint and quartzite (TERRACE DEPOSITS). Firm orange mottled light grey very sandy SILT and CLAY. Sand is fine (TERRACE DEPOSITS).		TD	
2.60-3.00	JJJV				↓	(2.50)				TD	
						6.85	3.30			TD	
4.50-4.90	JJV				↓	6.35	(0.50) 3.80	Firm grey sandy slightly gravelly SILT and CLAY with rare white shell fragments. Gravel is fine angular to subrounded and flint (TERRACE DEPOSITS).		TD	
						5.65	(0.70) 4.50	Brown GRAVEL. Gravel is fine to coarse angular to subrounded flint (TERRACE DEPOSITS).		TD	
6.50-7.00	JJV				↓	5.25	4.90	Brown very gravelly medium to coarse SAND. Gravel is fine to medium angular to subrounded flint (TERRACE DEPOSITS). Very stiff to hard dark grey CLAY (KIMMERIDGE CLAY).		TD	
						3.15	7.00			KIM	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
14-09-06		2.60			2.00						
14-09-06		3.80	20	2.72	3.50						

Slight groundwater seepage from 2.6m.

All dimensions in metres Scale 1:62.5	Contractor / Driller	Method/Plant Used	Logged By LF
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