Hamble Airfield

Geological Report

CEMEX UK Operations Limited





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1. Introduction

Scope of the report

Fisher German LLP (FG) has been instructed by CEMEX UK Operations Limited (CEMEX) to compile the relevant geological information and to provide a mineral reserve assessment figures for the companies holding known as Hamble Airfield, Hamble-le-Rice (the site).

2. Site Location, Ownership and Description

Site Location

The site is located approximately 7.2km southeast of the centre of Southampton, between Hamble Lane and Satchell Lane, Hamble-le-Rice. The approximate Ordnance Survey National Grid Reference for the centre of the site is SU 478 077 and an extract from the relevant 1:25,000 Scale is shown in Figure 1.

Ownership

The site is owned by Persimmon Homes Ltd and leased to CEMEX.

Description

The site is approximately rectangular in shape and covers an area of about 0.6km². It is generally level, but falls gently along the eastern boundary towards the estuary frontage. This site is covered by scrub vegetation and small trees between 0.5 and 2m high.

The site boundaries are flanked to the north by a railway line and Satchell Lane, to the east by Satchell Lane, houses along the south-east, south, and south-west boundaries, and to Hamble Lane in the west.

Services

Pipeline infrastructure linking the Hamble-le-Rice fuel refinery to the main UK pipeline network is present beneath the land. The pipelines run parallel to the eastern boundary of the site and are excluded from the development area.

The 2017 site investigation undertaken by CEMEX, first purchased a Utility Report from the mapping provider eMapsite before breaking ground. Figure 2 highlights those services in the vicinity of Hamble. The majority of these are located outside of the site boundary and not directly affected, with the exception of the fuel pipelines mentioned above.







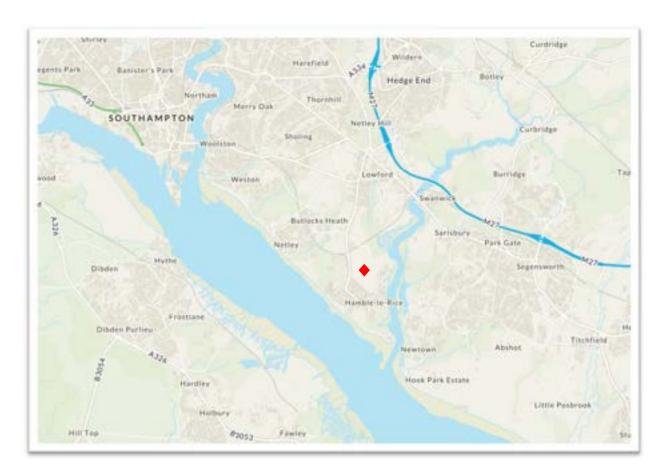




Figure 1 – Site Location plan showing high-level location and indicative site boundary



Figure 2 – List of utilities within the vicinity of Hamble Airfield. Note only Oil/Fuel pipelines present on site

Utility Company	Site Area Affected	Digitised ✓
Water		
Foul Water Company – Southern Water	✓	
Surface Water Company – Southern Water	√	
Potable Water Company – Southern Water	√	
Electricity		
Electricity Company – Scottish & Southern Energy	~	
Gas		
Gas Distribution Company – SGN	✓	
Telecoms		
Atkins Global (Vodafone)	✓	
BT Openreach	✓	
Virgin Media	√	
Oil/Fuel		
CLH Pipeline System Ltd	~	
DIO (MOD Abandoned Pipelines)	~	
Esso Petroleum Company Ltd	✓	
Network Rail		
Network Rail	✓	
Utility Company	Site Area Affected ✓	Digitised ✓







3. Geological Setting

The British Geological Survey mapping for the area shows the site to be underlain by River Terrace deposits comprising sands and gravels, overlying the Marsh Farm Formation comprising clay, silt, and sand and the Earnley Sand Formation comprising of Sand, Silt And Clay.

Figure 3 shows an excerpt from the British Geological Survey highlighting the indicative site boundary in relation to the superficial sand and gravel mineral terraces for the Hamble peninsula.



Figure 3 Extract from 1:50,000 geological sheet (not to scale) showing the indicative Hamble site location

4. Site Investigation Data

To date, there have been two exploratory investigations on the site. The first of these was undertaken by RMC Aggregates Limited in 1995. The ground investigation comprised of 28 shell and auger boreholes drilled over the entirety of the holding. This site investigation provided the majority of the data used within the geological models and volumetric calculations.

In 2017 CEMEX instructed an additional site investigation which was undertaken by Geotechnics Ltd. This comprised of 10 trial pit excavations. The primary goal of this second site investigation was to ratify the 1995 data as well as take bulk samples from the site for testing in the laboratory.

In addition to the exploratory site investigations, water observation boreholes have been installed over the site. The first suite of permanent boreholes were drilled in 2008 and the second in 2020. All borehole and trial pit locations are shown in appendix 1 with the detailed logs being shown in appendix 2.









5. Interpretation

The materials encountered in the 1995 boreholes and 2017 trial pits have been related to the published geology. This allows for effective correlation between site investigation data and can also provide invaluable information when interpreting the materials encountered.

Soils

Between 0.2m and 0.4m of soil (undifferentiated between topsoil and subsoil) was encountered in all boreholes. It is generally described as:

Grass over soft dark brown slightly gravel clay. (TOPSOIL)

Overburden

Material considered representative of the overburden was encountered in all boreholes and trial pits. It ranges between 0.3m and 1.5m thick and the base undulates between 15.84mAOD and 22.19mAOD.

Sand & Gravel

The mineral deposit is found over the entirety of the site and ranges in thickness from 0.6m in BH16/95 up to a maximum thickness of 5.20m in BH14/95. Two separate varying layers of sand & gravel were encountered during the site investigations. The upper layer is locally referred to as a 'Hoggin' material. Hoggin typically has a higher fines content than the lower and cleaner sand & gravel. The units are intermingled over the entirety of the site, and so have not been reported separately within the resource volumes.

The mineral sand and gravel mineral deposits can be described as a silty (sometimes very clayey) sandy gravel. The average gradings for the 'as raised' material from across the whole site are expressed as a percentage in Table 1. Testing of the target mineral samples in the laboratory, state the sand conforms with BS882 Medium to Coarse Sand.

Table 1 - Average percentage breakdown of sand & gravel

	Gravel Percentage (%)	Sand Percentage (%)	Fines Percentage (%)
MAX	70	65.1	30.5
MIN	21.4	24.8	3
AVERAGE	52.5	37.6	9.9

Basal Geology

All the boreholes and the majority of the trial pits proved the Marsh Farm Formation. This unit consists of very fine quartz sands and pipe clays, and is considered to be non-mineral. The elevation of the top of the Marsh Farm unit has been placed into a geological model and defines the base of the overlying sand and gravels.

Water Table

As mentioned in the Site Investigation Data section, there have been two suites of water observation boreholes installed at Hamble Airfield. These boreholes have been regularly dipped by monitoring technicians in order to capture background data for the seasonal fluctuations in the water table at Hamble. The groundwater regime at Hamble is covered in the hydrogeological chapters of the application.









6. Reserve Assessment

Reserve Assessment Technique

The reserve reassessment documented within this report utilises the sites topographic survey (see Appendix 1) which has been used as the datum for all the corresponding geological models, as well as a proposed quarry design used to quantity the mineral volumes.

All the survey information has been brought into the 3D modelling software 'LSS'. Volumes are based upon the comparison between the LSS digital terrain models (DTMs). LSS creates a network of 3D prisms which fill the void between the two DTMs, accounting for every subtle undulation in each model. This 'prismoidal' volume allows for a precise volume to be generated between the various geological and survey models used.

Mineral Resource Volumes and Tonnages

To calculate the mineral resource volumes at Hamble, a pit design has been created to simulate the maximum extent of development. The proposed pit design uses appropriate geotechnical design parameters as outlined by the Quarries Regulations 1999. Face heights are limited to 4 metres with 10 metre wide benches to allow safe access to all levels within the quarry. LSS software has then been used to compare the topographic survey to the proposed quarry design in order to generate the overburden and mineral volumes.

Further constraining factors have been applied to derive the workable area. The appropriate standoff to houses, underground utilities/pipelines and tree root protection zones have all been individually calculated by separate studies and used to define the workable area

The volumetric software generates a gross volume of mineral which is then converted into tonnage using a conversion factor of 1.65 tonnes per 1m³ (expressed as 1.65t/m³). Silt and fines are then removed from the gross tonnage figure to derive a 'net saleable tonnage'.

It is estimated a saleable sand and gravel resource of 1.672 Million tonnes (Mt) is present beneath the Hamble Airfield holding. The split of these resources by phase is shown in Table 2 and the Phasing overview plan is shown in Appendix 3.

Description	Workable area (sq.m)	Gross Mineral Vol (m.cu)	Net Tonnage (t)
Plant Site (Phase 7)	37,448	128,025	174,114
Phase 1	63,177	154,927	210,701
Phase 2	73,091	256,373	348,667
Phase 3	59,708	225,173	306,235
Phase 4	59,319	210,025	285,634
Phase 5	67,351	178,397	242,620
Phase 6	48,826	76,850	104,516
TOTALS	408,921	1,229,770	1,672,487









7. Conclusions

A parcel of land, known as Hamble Airfield has been subject to a several geological investigations dating from 1995, to determine the presence of workable sand and gravel. The site is shown by publicly available geological information to be underlain by terrace sand and gravel deposits.

Drilling investigations undertaken in 1995 and 2017 indicates an economically viable sand and gravel deposit. Subsequent laboratory testing of samples taken during the drilling indicate a deposit that is indicated to be 52% Gravel and 37% Sand.

Due consideration has been given to all external constraining factors (houses, underground utilities and tree root protection zones) in order to derive a workable mineral area of 40.8Ha.

An assessment of the available sand and gravel has determined a net saleable resource of 1.672 Million Tonnes. To access this mineral resource, 662,000m³ of overburden, comprising soils, subsoils and clays, will need to be stripped, stored and used in restoration.

Report compiled by:

Tom Giddings CGeol FIQ Fisher German LLP Date: 7 December 2021







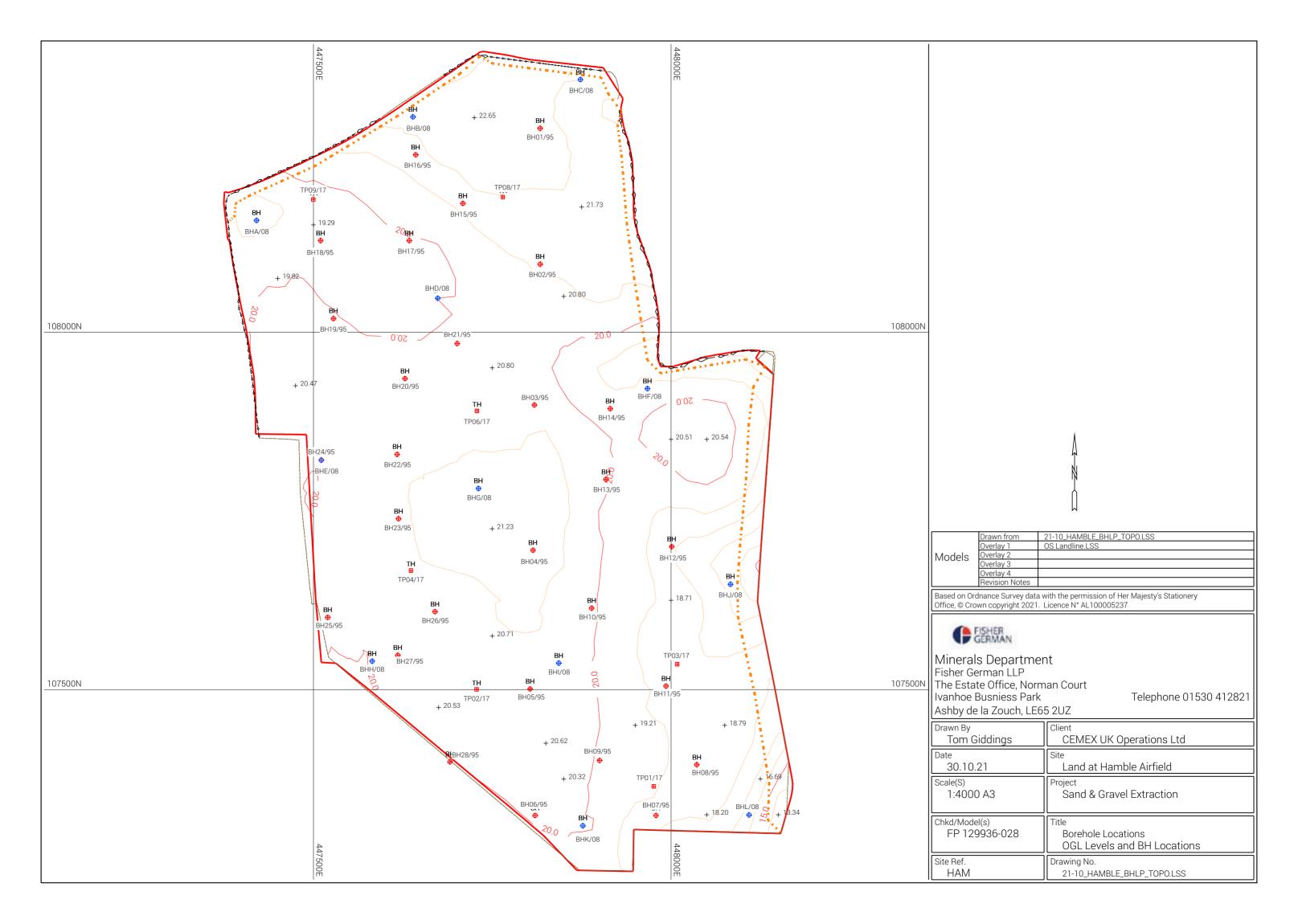


Appendix 1 Borehole Locations Survey Levels Plan











Appendix 2 : Borehole Logs









Sample	e Types	Groundwater		Strata, Continued	
В	Bulk disturbed sample	Water Strike	∇	Mudstone	
BLK	Block sample	Depth Water Rose To	¥		
C D	Core sample Small disturbed sample	Instrumentation		Siltstone	× × × × × × × × × × × × × × × × × × ×
Е	(tub/jar) Environmental test sample		55	Metamorphic Rock	× × × × ×
ES	Environmental soil sample	Seal		Fine Grained	***************************************
EW	Environmental water sample		7		**********
G	Gas sample		111	Medium Grained	~~~
L	Liner sample	Filter	:	Coarse Grained	
LB	Large bulk disturbed sample	Tiller	 1 1	Coarse Grained	~~~
Р	Piston sample (PF - failed P sample)		-	Igneous Rock	
TW	Thin walled push in sample		55	Fine Grained	, , , , , , ,
U	Open Tube - 102mm diameter with blows to take sample. (UF - failed U sample)	Seal		Medium Grained	++++
UT	Thin wall open drive tube sampler - 102mm diameter	Strata	Legend	Coarse Grained	
	with blows to take sample. (UTF - failed UT sample)	Made Ground Granular		Backfill Materials	
V	Vial sample				\otimes
W	Water sample	Made Ground Cohesive		Arisings	
#	Sample Not Recovered	Comestive			X
Insitu	Testing / Properties	Topsoil		Bentonite Seal	
CBRP	CBR using TRL probe		000		
CHP	Constant Head Permeability Test	Cobbles and Boulders	.0.0	Concrete	, ,
COND	Electrical conductivity	Gravel			<u> </u>
TC	Thermal Conductivity		4 - 1	Fine Gravel Filter	
TR	Thermal Resistivity			Tille Graver Filter	
HV	Strength from Hand Vane	Sand			-
ICBR	CBR Test			General Fill	
IDEN	Density Test	Silt	(× ()		<u>.</u> -
IRES MEX	Resistivity Test		× × ×	Gravel Filter	
ITEA	CBR using Mexecone Probe Test		× * × }	Graver Filter	:-
PKR	Packer Permeability Test	Clay			2
PLT	Plate Load Test			Grout	
PP	Strength from Pocket Penetrometer	Peat	N/a		200
Temp	Temperature		N/A	Sand Filter	20 g
VHP	Variable Head Permeability Test		N/2, .		9.8
VN w%	Strength from Insitu Vane Water content	Note: Composite soil type by combined symbols	es shown	Tarmacadam	
	ner strengths from	Chalk	11111		
undrain	ed triaxial testing)	Chan		Rotary Core	
S	Standard Penetration Test (SPT)	1 to a second		RQD Rock Quality D (% of intact cor	<u> </u>
С	SPT with cone	Limestone		FRACTURE INDEX Fractures/metro	2
N	SPT Result			FRACTURE Maximum	-
-/-	Blows/penetration (mm) after seating drive	Sandstone		SPACING (m) Minimum NI Non-intact NR No core re	
-*/-	Total blows/penetration			AZCL Assumed z	one of core
(mm) ()	Extrapolated value	Coal		loss (where core recovery is unkno assumed to be at the base of th	



Engineer

Project HAMBLE AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP01 PE171428

Client CEMEX National Grid Coordinates 447975.749E 107364.746N

Ground Level 18.93 m OD

Client CEMEX			Coordinates 107364.746 N	Ground Level		OD
Samples and	Tests		Strata		Scale 1	:20
Depth		atum No Results	Description	Depth	Legend	Level m OD
-			Grass over soft dark brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse flint.	_ G.L.		18.9
0.30- 0.60	В		Soft light brown slightly sandy slightly gravelly CLAY. Gravel is angular and subangular fine to coar flint.	0.30		18.
			Light brown sandy slightly clayey angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	0.60	3	18.
1.00- 3.00	В		Orangish brown and yellowish brown slightly clayey sandy angular and subangular fine to coarse GRAVEL with frequent pockets up to 300mm in size of fine to coarse sand. Gravel is flint. Medium subangular fli cobble content.	- 0.90		18.0
			End of Excavation	3.00		15.
xcavation	•	•	Groundwater			
Plant JCB 3C Date 26/09/			Width (B) 0.50 Length (C) 2.00 Depth Observed of Pit Details			
tability Stable		excavation.		er not encounten.	ered during	

Symbols and abbreviations are explained on the accompanying key sheet.

Remarks Trial pit set out and the area was CAT scanned prior pit was backfilled in compacted layers of arisings.

Checked by Figure

EAS 1 of 1 20/11/2017 وعواعطسأنع Project HAMBLE AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP02 PE171428

m OD

ezimbeleeg

Client CEMEX

National Grid 4 Coordinates 1

Engineer

447728.165E 107500.498N

Ground Level 20.78

Client CEMEX				Coordinates 107500.4	:98 N	Ground Leve		
Samples and	Tests			Strata			Scale 1:	1
Depth	Type	Stratum No	Results	Description		Depth	Legend	Level m OD
-				Grass over soft dark brown s frequent rootlets.	lightly sandy CLAY w	G.L.	1	20.7
				Soft light brown sandy CLAY pockets of very clayey fine	with frequent cobble	0.30 size		20.4
0.50- 2.00	В			position of very eraje, rine				
						-		
_						-		
						-	2	
						-		
						-		
						-		
.2.00- 3.20	В			Light brown and orangish bro	www.sandy.clayey.angu	2.00		18.7
				flint. Low subangular flint	cobble content.			
						-	3	
						-		
-						-		
				End of Exc	avation	3.20		17.5
						-		
						-		
_								
Even : t'					Canada			
Excavation Plant JCB 36				Width (B)	Groundwater Depth Depth Details	<u> </u>		
Date 26/09 Shoring None. Stability Stable	/2017	ng exca	vation.	Width (B) 0.50 Length (C) 2.00 (Control of the Control of the Con	Observed of Pit	water not encount	ered during	
Remarks AGS 1 Symbols and abbreviations are explained on the	Trial p pit was	oit set backf	out and	the area was CAT scanned prior to compacted layers of arisings.	excavation. On comp	oletion the trial	Figure 1	JC EAS L of 1 20/11/2017

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015

Engineer

Project Hamble AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP03 PE171428

CEMEX

National Grid Coordinates 448008.711E 107535.603N

Ground Level 18.16

m OD Scale 1:20 Samples and Tests Strata Stratum Depth Type Results Depth Description Leaend m OD No 18.16 G.L. Grass over soft dark brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse 1 0.50- 1.10 в 0.50 17.66 Orangish brown and light brown sandy slightly clayey angular and subangular fine to coarse GRAVEL. Gravel is flint. Medium subangular flint cobble content. . 2 1.10 17.06 Yellowish brown sandy slightly clayey angular and subangular fine to coarse GRAVEL with pockets up to 300mm in size of gravelly fine to coarse sand. Gravel is flint. Medium subangular flint cobble content. 1.50- 3.00 В ្វី 3្វេ` 3.00 15.16 End of Excavation Excavation Groundwater Depth of Pit Width (B) Depth Plant JCB 3CX 26/09/2017 Observe Date Length (C) 2.10 270 deg Orientation Date Backfilled Shoring None. Groundwater not encountered during 26/09/2017 excavation. Stability Stable during excavation. Logged by Checked by EAS

Symbols and abbreviations are explained on the accompanying kev sheet.

Remarks Trial pit set out and the area was CAT scanned prior to excavation. On completion the trial pit was backfilled in compacted layers of arisings.

Figure

EEJINGES

1 of 1

20/11/2017

TP04 Project Hamble Airfield, Hamble-Le-Rice Trial Pit CEMEX Project No PE171428

> National Grid Coordinates 447636.205E 107666.539N

Ground Level 20.73 m OD CEMEX Scale 1:20 Samples and Tests Strata Stratum Depth Type Results Depth Description Leaend m OD No 20.73 G.L. Grass over soft dark brown slightly sandy CLAY with frequent rootlets. . 1 0.30- 1.50 В 0.40 20.33 Soft light brown slightly sandy CLAY with frequent pockets of very clayey fine sand. 2 1.50- 3.00 1.50 19.23 В Light brown becoming orangish brown very sandy clayey angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content. 3 From 2.50: Very sandy. 3.10 17.63 End of Excavation Excavation Groundwater Depth Observe Depth of Pit Width (B) Plant JCB 3CX 26/09/2017 Date Length (C) 1.80 090 deg 26/09/2017 Shoring None. Orientation Date Backfilled Groundwater not encountered during excavation. Stability Stable during excavation. Remarks Trial pit set out and the area was CAT scanned prior to excavation. On completion the trial pit was backfilled in compacted layers of arisings. Logged by Checked by EAS

Symbols and abbreviations are explained on the accompanying kev sheet. All dimensions are in metres.

Logged in accordance with BS5930:2015

Figure

1 of 1 20/11/2017



Trial Pit

Engineer

Project HAMBLE AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP06 PE171428

447728.665E National Grid

Client CEMEX		Coordinates 107889.756 N	Ground Leve	l 20.67 m	OD
Samples and Tests		Strata		Scale 1	:20
Depth Type	Stratum Results	Description	Depth	Legend	Level m OD
-		Grass over soft dark brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse flint.	_ G.L.		20.6
		Soft light brown slightly sandy CLAY with pockets up to 20cm in size of very clayey fine sand.	- 0.20	· · · · · · · · · · · · · · · · · · ·	20.4
0.70- 1.40 B		Soft yellowish brown slightly gravelly sandy CLAY. Gravel is angular and subangular fine to coarse flint.	0.70		19.9
-			-	3 · · · · · · · · · · · · · · · · · · ·	
		Light brown sandy slightly clayey angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	- 1.40 -	4	19.2
1.70- 2.90 B		Orangish brown very sandy clayey angular and subangular fine to coarse GRAVEL with frequent pockets up to 20cm in size of gravelly fine to coarse sand. Gravel is flint. Low subangular flint cobble	1.70		18.9
			- 2.90	5	17.7
_		End of Excavation			
			-		
-			-		
Excavation		Groundwater			I
Plant JCB 3CX Date 26/09/2017 Shoring None.		Width (B) 0.50 Depth Observed of Pit Octails Orientation 270 deg Date Backfilled 26/09/2017 Depth Observed of Pit Octails Groundwater excavation.	not encount	ered during	
Stability stable during the stable st		ne area was CAT scanned prior to excavation. On completion	the trial	Logged by Checked by	JC

Symbols and abbreviations are explained on the accompanying key sheet.

Remarks Trial pit set out and the area was CAT scanned prior pit was backfilled in compacted layers of arisings.

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Logged in accordance with BS5930:2015

Engineer

Project HAMBLE AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP08 PE171428

m OD

Client CEMEX

National Grid 447764.762 E Coordinates 108188.966 N

Ground Level 24.00

CIIENT CEMEX			Coordinates 108188.966N	Ground Leve		
Samples and	Tests		Strata		Scale 1:2	
Depth	Type	Stratum No Result	Description	Depth	Legend	Level m OD
-			Grass over soft dark brown slightly gravel Gravel is angular and subangular fine to of flint.	Ly CLAY.		24.0
			Light brown sandy slightly clayey angular subangular fine to coarse GRAVEL. Gravel is	and s flint.		23.7
0.60- 1.50	В		Yellowish brown and light brown sandy slig angular and subangular fine to coarse GRAV is flint. Medium subangular flint cobble of	EL. Gravel		23.4
1.50- 2.90	В			- - - - - - - - - - -		
			Vallewigh brown fine SAND	2.90		21.
			Yellowish brown fine SAND. End of Excavation	3.00	4	21.
			EMA OF EACAVACTOR	- - - - - -		
				-		
Excavation			Groundwater			-
Plant JCB 30			Width (B) 0.50 Depth Observed of Pit	Details		
Date 26/09/ Shoring None.			2.00	Groundwater not encount	ered during	
tability Stable	e durin	g excavation	Date Backfilled 26/09/2017	excavation.		

Symbols and abbreviations are explained on the accompanying key sheet.

All dimensions are in metres.

Logged in accordance with BS5930:2015

Checked by Figure

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EAS 1 of 1 20/11/2017 Engineer

Project HAMBLE AIRFIELD, HAMBLE-LE-RICE

CEMEX

Trial Pit Project No TP09 PE171428

Client CEMEX National Grid Coordinates 447499.827E 108185.498N

Ground Level 21.70 m OD

				Coordinates 108185.498 N	Ground Level		OD
Samples and	Tests			Strata		Scale 1	:20
Depth	Туре	Stratum No	Results	Description	Depth	Legend	Level m OD
-				Grass over soft dark brown slightly gravelly CLAY. Gravel is angular and subangular fine to coarse flint.	_ G.L. -		21.70
0.30- 1.50	В			Light brown sandy slightly clayey angular and subangular fine to coarse GRAVEL with frequent sand pockets up to 200mm in size. Gravel is flint.	0.30		21.40
				Orangish brown sandy angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	0.60	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.10
-				Light grey and orangish brown fine SAND.	0.90	4	20.80
				Light brown sandy angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	1.20	5	20.50
1.50- 3.00	В			Light grey and orangish brown fine SAND.	1.50	6	20.20
				Light brown sandy angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	1.70	· · · · · · · · · · · · · · · · · · ·	20.00
-				Light grey and orangish brown fine SAND.	2.10	8	19.60
				Light brown sandy angular and subangular fine to coarse GRAVEL. Gravel is flint. Low subangular flint cobble content.	2.70	9	19.00
				Light grey and orangish brown fine SAND.	-	10	
-				End of Excavation	3.00		18.70
Excavation				Groundwater			
Plant JCB 36 Date 26/09 Shoring None. Stability Stable	/2017	g exca	 	Width (B) 0.50 Depth Observed of Pit Details Orientation 060 deg Date Backfilled 26/09/2017 Depth Observed of Pit Details Officially Details Officially Details Officially Details Officially Details Officially Depth Observed of Pit Details Officially Details	not encount	ered during	

Remarks Trial pit set out and the area was CAT scanned prior to excavation. On completion the trial pit was backfilled in compacted layers of arisings.

Symbols and abbreviations are explained on the accompanying key sheet. All dimensions are in metres.

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JC EAS 1 of 1 20/11/2017



Project Number : PE171428



TP01



TP01 - Spoil



Project Number : PE171428



TP02



TP02 - Spoil



Project Number : PE171428



TP03



TP03 - Spoil



Project Number : PE171428



TP04



TP04 - Spoil



Project Number : PE171428



TP06



TP06 - Spoil



Project Number : PE171428



TP08



TP08 - Spoil



Project Number : PE171428



TP09



TP09 - Spoil



SITE NAME Hamble Airfield,	DRILLING METHOD Power Auger CASING DETAILS 1 LOG BOOK REF. RMC 08345								to to
SITE PEF.	m AO TRENE			CO-OF E N NGE -S	O.O	8		DATE OF START : FINISH :	13/6/95
DESCRIPTION	REDUCED LEVEL (m AOO)	LEGEND	DEPTH & (THECKNESS) (m)	SAWILE DEPTH 610 6 Frex	- mai	GRAND DING	FINES	PICIONETOR DISTRILL- ATTOR	REMARKS
TOP SOIL Hoggin (brown day and stone)			(2.70)	2.00 ₈	52.9	37.7	9.4		
Yellow soft CLAY Blue firm CLAY			(1.50) 4.50 (1.50)						,

NOTES

TOTAL DEPTH
6.00
METRES
LOGGED 8Y
W.K.J. Osborn

B - Bulk disturbed (bag) sample
CPT - Cone Panetration Test
D - Small disturbed (far) sample
SPT - Standard Penetration Test
U100 - Undisturbed Sample
SCALE
Standing water level measured
W - Water Sample
11:75

DRILLI	NG MET	HCD Power	luger	CA	SING D	ETAIL8	2 3	to to
GROU	ND LEVE	L	CO-CR		S		DATE DE	The second secon
REDUCED	LEGENO	DEPTH & (THEODIESS) (n)	SVALE CEPTS (at)				POLICIPATOR INSTALL- ATION	REMARKS
	***	(0.60)						
	8	(1.60)	1.50g	21,4	65.1	13.5		
		(2.30)	3.00 B	2.2	60.6	28.2		
		4.50					э.	
		5.00 (0.50)						
	*							
						1.5	84	
				40				
			*					
	GROU M AO TRENC	DRILLING MET LOG BOOK RE GROUND LEVE m AOD TREND ESOUCED LEVEL (n AOD) DO NOT THE NO	DRILLING METHOD Power / LOG BOOK REF. RIMC 06344 GROUND LEVEL m AOD PLUI REDUCED LEGEND (THICKNESS) (m AOD) 0.60 (0.60) 10.60 (1.60) 2.20	## AOD PLUNGE 0 ## BEDUCED LEVEL (m AOD) LEGENO (THICKNESS) 1 1 1 1 1 1 1 1 1	DRILLING METHOD Power Auger LOG BOOK REF. RMC 06346 GROUND LEVEL CO-CROINATES IN ACID PLUNGE 90.0 REDUCED LEVEL (IN ACID) CONTROL (IN ACID) CONTROL (IN ACID) OCCUPANT OF THE STANLE (IN ACID) CONTROL (IN ACID	DRILLING METHOD Power Auger CASING DI LOG BOOK REF. RMC 06346 GROUND LEVEL CO-CRDINATES # AOD PLUNGE 90.0 ##################################	DRILLING METHOD Power Auger LOG BOOK REF. RMC 06346 GROUND LEVEL. CO-CROINATES E N PLUNGE 90.0 FEDUCED LEVEL (IN A00) LEGENO (THICOIESS) (IN) (DRILLING METHOD Power Auger CASING DETAILS 1 2 LOG BOOK REF. RIMC 06346 GROUND LEVEL CO-CROINATES DATE OF START: m AOD PLUNGE 90.0 FINISH: ESUCED LEGEND OF THE SWALE GRADINGS PRESSURE (IN AOD) (0.60) O.60 (0.60

田口切り

NOTES

Bulk disturbed (bag) sample
 Small disturbed (jar) sample
 Water Strike
 Standing water level measured

SPT U100 W Cone Penetration Test
 Standard Penetration Test
 Undisturbed Sample
 Water Sample

TOTAL DEPTH 5.00 METRES LOGGED BY W K J Osborn DATE LOGGED SCALE 1:75

-

SITE NAME	1000 1000		HOD Power				1 ETAILS		to to
Hamble Airfield,	GROU	GROUND LEVEL GROUND LEVEL GROUND LEVEL GROUND LEVEL GROUND LEVEL FILLING			IDINATE	S	3 to DATE DRILLED START : 13/6/95 FINISH : 13/6/95		
DESCRIPTION	REDUCED LEVEL (m A00)	LEGENO	CEPTH & (THICKNESS)	SAULE COPPE (co) A TUPE	Sec. 35	GRADING SAND	FIAES	PIEZONETOR INSTALL- ATTON	REMARKS
TOP SOIL. Brown sandy soft CLAY A HOGGIN Yellow fine SAND Brown sandy GRAVEL			(1.40) (1.00) 2.00 (1.00) 3.00 (0.50)	3.20 _B	11.9	46.7	41.4		
Yellow GLAY		0. 0	(3.50) 7.00 7.50 (0.50)	a.co _B	56.1	34.7	9.2	S	.f 6.00m

NO	res			The Second Second	TOTAL DEPTH 7.50 METRES
					LOGGED BY W K J Osbam
8	- Bulk disturbed (bag) sample	CPT SPT	- Cone Penetration Test - Standard Penetration Test		DATE LOGGED
MADO	Small disturbed (jar) sample Water Strike Standing water level measured	U190	- Undisturbed Sample - Water Sample		SCALE 1:75

READY MIXED LAND SEARCH 8	CONCR	ATION	(UK) LTI I DEPT.)	BORI		E No.	O4 OF	/95
TE NAME Hamble Airfield,	4 10 10 10 10 10 10 10 10 10 10 10 10 10		HOD Power a	18	10000	2000	ETAILS	3	to to to
me Ref.	m AO	NID LEVE		CO-OR E N INGE -9	DINATE	S			RILLED : 13/6/95 : 13/6/95
DESCRIPTION	REDUCED LEVEL (m. A00)	LEGENO	CEPTH & (THICKNESS)	SUPLE OCTRI GAI E THRE	GRAVEL	SANO	FENES	PIERONETER INSTILL- ATION	REMARKS
TOP SOIL.		***	(m) (0.60)	THE					
Brown soft CLAY		蓝	(1.60)						
HOGGIN		, , ,	(2.80)						
Brown sandy GRAVEL.			5:00 (1:50)	6.00 _B	55.4	34.7	9.9		<i>₹</i>

(1.00)

6.80m

Yellow CLAY

IOTES		TOTAL DEPTH 7.50 METRES LOGGED BY W.K.J.Osborn
- Bulk disturbed (bag) sample	CPT '- Cone Penetration Test	CATE LOGGED
Small disturbed (jar) sample Water Strike Standing water level measured	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

sme NAME Hamble Airfield,		DRILLING METHOD Power Auger CASING DETA LOG BOOK REF. RMC 08349						1 2 3	to to
SME REF.	M ACO E N TRENO PLUNGE -			OINATE	S		DATE DRILLED START: 13/6/95 FINISH: 13/6/95		
DESCRIPTION	REDUCED LEVEL (m AOO)	LEGENO	OEPTH \$ (THICKNESS) (m)	SAVE! OCPOI DIA 1 THIPE		GRADENG SAND	FINES	PHEZD-ETER DISTALL- AFIDY	REMARKS
HOGGIN Brown sandy GRAMEL	0.0.0.0.0.0.0	0.000	(2.40) 3.00 (3.00) (3.00)	5.00 ₃	60.1	36.7	3.2	8	*5.50m
Yellow CLAY			(1.00)						

NOTES			TOTAL DEPTH 7.50 METRES LOGGED BY WKJ Osbam
B - Bulk disturbed (bag) sample	CPT	- Cone Penetration Yest - Standard Penetration Test	 DATE LOGGED
D - Small disturbed (jar) sample ☑ - Water Strike ☑ - Standing water level measured	U100	- Undisturbed Sample - Water Sample	SCALE 1:75

RMC LAND SEARCH				Auger	-		1 C		to to	
TE NAME Hamble Airfield,	DRILLING METHOD Power Auger CASING DETAILS 1 to 2 to 10 to 1									
TEREF.	m AO TREN	ND LEVI		CO-OF E N NGE 4	IDINATE IO.O	S		DATE DRILLED START: 13/6/95 FINISH: 13/6/95		
accenteriou.	REDUCED LEVEL	LEGENO	DEPTH A	SAME DEFTO OUT		GRAD ENG		PICENTER DISTALL	REMARKS	
CESCRIPTION	(m A00)		(THECKNESS) (m)	CLAS.	GRAVEL	SANO	FINES	AFRON		
OP SOIL		\bowtie	(0.60)							
Irown soft CLAY										
			(1.80)							
IOGGIN		8	(1.10)							
Frown sandy GRAVEL		3 ° 0	3.30							
			(3.50)	5.00 _B	61.9	33.5	4.6		. e.oom	
/ellow CLAY		0.0	7.00							

IOTES		TOTAL DEPTH 7.50 METRES LOGGED BY W K J Osborn
: " 'Sulk disturbed (bag) sample	CPT Cone Penetration Test	DATE LOGGED
Small disturbed ([ar] sample Water Strike Standing water level measured	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

SITE NAME Hamble Airfield,	LOG BOOK REF. RMC 06351 CASING DETAILS 1 to 10 t								10
SITE PEF.	GROUND LEVEL CO-ORDINATES DATE DRILLED m AOD E N START : 13/8/95 TREND → PLUNGE -90.0 FINISH : 13/8/95								
DESCRIPTION	REDUCED LEVEL	LEGENO	DEPTH & (TH(CXNESS)	SAMPLE INI MTREO		GRAD ENG		PHEZOVETEN BISTALL	REMARKS
Manufac Lawre	(m A00)		(m)	me	GIAVEL	SAMO	FINES	ATRON	
TOP SOIL		\bowtie	0.60 (0.60)						
Brown soft CLAY			(0.90)						
Brown HOGGIN A			_ 1.50	2.00g	59.4	35.0	5.6		
		v -	(3.00)	4.00 _B	55.8	32.5	11.7		
Yellow CLAY			4.50 5.00 (0.50)		55.8	34.5	11.7	- Di	

NOTES		TOTAL DEPTH 8.00 METRES LOGGED BY W K J Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test SPT - Standard Penetration Test	DATE LOGGED
D - Small disturbed (jar) sample ☑ - Water Strike ☑ - Standing water level measured	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

.

SITE NAME Hamble Airfield,	5 75 75 75 75 75 75 75 75 75 75 75 75 75	REF. RMC 0635		C	ASING C	ETAILS	2	to to
SITE REF.	GROUND LE	EVEL.		RDINATE	s		DATE DO START FINISH :	10 RILLED : 13/6/95 : 13/6/95
DESCRIPTION	REDUCED LEVEL LEGER (m //OD)	DEPTH A (THEOXNESS) (m)	SOME STANFOR		SANO	FIRES	POEZOHETEA DISDALL+ AFTON	REMARKS
TOP SOIL		0.50 (0.60)						
HOGGIN		(4.40)	2.008	51.2	34.4	4.4		
	7.7 7.7 7.7 7.7 7.7	5.00	4.00 _B	62.1	33.8	4.1	+	
Yellow fine SAND Yellow CLAY		min shall						7
		12						
			Si .				14	
							34	
		(8)	(a)				34	
			al				84	
								TOTAL DEPTH 6.00 METRES LOGGED BY WKJ Osborn
	CPT - C	one Panetration T landard Penetration ndisturbed Sample	Fest on Test					METRES LOGGED BY

SITE NAME Hamble Airfield,	DRILLING METHOD Power Auger CASING DETAILS 1 to to to to to to to to								
SITE REF.		ND LEVI		CO-CF E N NGE 4	DINATE	5		DATE DR START : FINISH :	13/6/95
DESCRIPTION	REDUCED LEVEL (m ACO)	LEGEND	CEPTH A (THEOXNESS)	SAMPLE IDENTIFE CHIE S. THERE		GRADING SAND	FINES	PIEZO-ETER DISTALL- AFION	REMARKS
YOP SOIL		***	0.60						
Brown sandy CLAY			(1.40)						
HOGGIN		2 2	(3.00)	3.00 ₈	55.2	35.1	9.7		
		0	5.00	4.50 _B	69.7	25.0	5.3		
Yellow CLAY			(1.00)						

NOTES

TOTAL DEPTH
6.00
METRES
LOGGED BY
W.K.J. Osbern

B - Bulk disturbed (bag) sample
CPT - Cone Penetration Test
DATE LOGGED

SPT - Standard Penetration Test
U100 - Undisturbed Sample
W - Water Strike
SCALE
STANDARD - Undisturbed Sample
1:75

re NAME Hamble Airfield,			HOD Power A		C	ISING O	ETAILS	2 3	to to
TE REF.	m AOI TREND			CO-OP E N NGE -S	DINATE	S	THE CO.		13/6/95 13/6/95
DESCRIPTION	REDUCED LEVEL (m AOD)	LEGENO	DEPTH & (THICKNESS)	SAFEE GEFTH CAS A	GRAVEL	GRAD INGS	FIRES	PIERRETOR DISTREA- ATION	REMARKS
OP SOIL	0.7007	***	(m) (0.60)	TIPE					
rown sandy CLAY			(0.90)						
OGGIN .		0 - 6 -	_ 1.50	2.00 _B					
		0 - 3 - 3	(3.00)						
rey fine clayey SAND			4.50	0:00-					
•			(1.50)	5.00 _B					ř

REFERENCE OF THE TREFFERENCE OF THE TREFFERENCE

OTES			TOTAL DEPTH 6.00 METRES
			LOGGED BY W K J Osborn
- Bulk disturbed (bag) sample	CPT	- Cone Penetration Test - Standard Penetration Test	DATE LOGGED
 Small disturbed (jar) sample Water Strike Standing water level measured 	U100 W	- Undisturbed Sample - Water Sample	 SCALE 1:75

SITE NAME Hamble Airfield,			THOD Fower of the Property of		C	ASING D	ETAILS	2 3	to to
SITE REF.		D —		CO-CR E N NGE -0	O.O	S		DATE DR START : FINISH :	13/6/95
DESCRIPTION	REDUCED LEVEL (m A00)	LESENO	DEPTH & (THIOKNESS) (m)	SWALT DOUGH ON I		GRAD ING	FINES	PISEMETOR DISTRIL- ATION	REMARKS
HOGGIN A			(0.90) (0.90) 1.50	2.00 ₃		29.9	a.0 3.0		
Yellow fine SAND			(1.50)						,

NOTES		TOTAL DEPTH 6.00 METRES LOGGED BY W.K.J.Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test SPT - Standard Penetration Test	DATE LOGGED
D - Small disturbed (jar) sample - Water Strike - Standing water level measured	U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

Hamble Airfield,			HOD Power a	8	80	357174.55	ETALS	3	to to to
SITE PIEF.	m AC	IND LEVE D —		CO-CR E N NGE -6	O.O	S			13/6/95 13/6/95
77 900007088507204	PEDUCE	0	DEPTH	SWPLE COPTS INC		GRADING	S	PRESENTER	REMARKS
DESCRIPTION	(n A00	LEGELO	(THEOCHESS)	TYPE	GRAVEL	SAID	FINES	ATIBA	rigination
TOP SCIL.			0.60 (0.60)						
Brown sandy CLAY		莹	(0.60)						
HOGGIN			(2.30)	2.00 _B	58.7	37.2	4.1		
Yallow fine SAND	-	- - -	_ 3.50						-
	- 20		(2.50)						4.50m

(

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NOTES

B - Bulk disturbed (bag) sample

CPT - Cone Penetration Test

D - Small disturbed (jar) sample

W - Standard Penetration Test

Water Strike

Water Strike

Water Sample

TOTAL DEPTH

5.00

METRES

LOGGED BY

W K J Osborn

DATE LOGGED

SPT - Standard Penetration Test

U100 - Undisturbed Sample

SCALE

1:75

READY MIXED	CONCRI EXPLORA	ATION	UK) LTL I DEPT.) 11	SHEET		E No.	13/ OF	1
SITE NAME Hamble Airfield,			HOD Power / F. FMC 0635	7	100	200.200	ETAILS	3	to to to
SITE REF.	m AO	ND LEVE		E N NGE 4	DINATE	S		START : FINISH :	14/8/95
ACCONTRATION.	REDUCED	LEGENO	CEPTH &	SUPPLE BEFTH ON		GRAD ING		PICENITES BISTALL-	REMARKS
DESCRIPTION	(m A00)	C.L.	(THICONESS)	THE A	GRAVEL	SANO	FINES	ATTON	
TOP SOIL			(0.60)			*			
Soft sandy CLAY			(0.60)						
HOGGIN		° - 2	(2.30)	2.008	41.7	40.9	17.4		
Yellow tine SAND			3.50 4,00 (0.50)						

NOTES

B - Bulk disturbed (bag) sample
D - Small disturbed (jar) sample
V - Water Strike
V - Standing water level measured

TOTAL DEPTH
4.00
METRES
LOGGED BY
WK J Osborn
DATE LOGGED

SPT - Cone Penetration Test
DATE LOGGED

U100 - Undisturbed Sample
V - Water Sample
1:75

SITE NAME Hamble Airfield,	100000000		THOO Power EF. RMC 063	- T	c	ASING	DETAILS	2 3	to to
SITTE REF.	m AO TRIENE	IND LEV	77	CO-CI	RIZINATE 20.0	38		START : FINISH :	14/6/95
DESCRIPTION	REDUCED		DEPTH &	SAMPLE BEZTH (x)		GRADING	s	PECZDICTER	DEMIGNS
873,5975 9554	(m A00)		(II)	Tree	GOWEL	SWO	FIRES	ATTON	REMARKS
Blue sandy CLAY Yellow fine SAND		\$	(2.20) 2.50 3.00 ^(0.50)	1.00 _B		44.0 37.5	15.1		
			(3.00)	5.008	0.7	71.7	27.6		,

包

TOTAL DEPTH 6.00 METRES LOGGED BY OTES W K J Osborn Cone Penetration Test
 Standard Penetration Test
 Undisturbed Sample
 Water Sample - Bulk disturbed (bag) sample - Small disturbed (jar) sample CPT SPT DATE LOGGED - Water Strike - Standing water level measured U100 W SCALE 1:75

SITE NAME Hamble Airfield,			HCD Power / F. RMC 0635		CA	ISING D	ETALS	1 2 3	to to
SITE REF.	m AO	ND LEVE		CO-OR E N NGE -9	DINATE	S		DATE DE START : FINISH :	14/6/95
DESCRIPTION	REDUCED LEVEL (m AQQ)	LEGENO	DEPTH 5 (THICKNESS)	SUPLE BEFTR Cot 1 TIPE	GRAVEL.	GRADENS:	FINES	PRETO-ETER ATRON	REMARKS
Yellow soft CLAY			0.60 (0.60) (1.80)				-		
Yellow fine clayey SAND			(1.50) - 3.90 - (1.10)	3.00 _B					

NOTES

B - Bulk disturbed (bag) sample
D - Small disturbed (jar) sample
V - Water Strike
V - Standing water level measured

TOTAL DEPTH
5.00
METRES
LOGGED BY
W K J Osborn
DATE LOGGED

SPT - Standard Penetration Test
U100 - Undisturbed Sample
V - Water Sample
V - Water Sample
1:75

Hamble Airfield,			HOD Power / F. PMC 0836	0		SING D	ETAILS	3	to to
SITE PEF.	m AOI TRENE			CO-OF E N NGE -9	IDINATES	3		START : FINISH :	14/6/95
1	REDUCED	, cocus	0EPTH &	SUPLE BEPTR CHI		BRAD ENGS	i	PIEZOMETER INSTALL+	REMARKS
DESCRIPTION	(m AOD)	LEGENO	(THECKNESS)	TIPE	GRAFE	SANO	FINES	ARION	1300000000
TOP SOIL HOGGIN			0.60 (0.60) (0.90)			*5			7.
Yellow line clayey SAND			(3.50)						
) () () () (5.00	4.00 _B	0,4	87.5	12.2		

NOTES

B - Builk disturbed (bag) sample
CPT - Cone Penetration Test
DATE LOGGED
SY
W.K.J. Cabom
DATE LOGGED
SPT - Standard Penetration Test
Water Strike
V - Water Strike
V - Water Sample

SITE NAME Hamble Airfield,	LOG E	NO LEVE	HOD Power / F. FMC 0636 EL	CO-O	CA		ETAILS	2 3 DATE D	to to to PILLED : 14/6/95
SITE REF.	m AO	0 —	PLU	E N NGE 4	0.00	11			14/6/95
DESCRIPTION	REDUCED LEVEL (m ACC)	LEGENO	DEPTH A (THICKNESS) (m)	SMPLE SSPTH ON B	GRAVEL	GRADING SAND	FINES	PHEED-ETER DESPALL- ATION	REMARKS
Yellow/brown softy CLAY some stone			(2.90)						
Oark brown damp GRAVEL Yellow fine clayey SAND	_		- (1.00) _ 4.50 - (1.50)					4	,

NOTES		METRES LOGGED BY W K J Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test	DATE LOGGED
D - Small disturbed (jar) sample V - Water Strike Standing water level measured	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	8CALE 1:75

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HMC LAND SEARCH &	-	-	HOD Power	Auger	SHEE	ASING D		1	to
Hamble Airfield,	LOG BO	OOK RE	F. FMC 0636	12				3	to to
IT'E REF.	m AOD TREND	NO LEVE		E N NGE 4	IDINATE 10.0	S		DATE DR START : FINISH :	14/8/95
DESCRIPTION	REDUCED LEVEL (in A00)		DEPTH & (THICKNESS)	SIMPLE CEPTH CHO S TYPE		GRADENGS SAND		PICOSTAL INSTAL ATION	REMARKS
TOP SOIL			0.60)						
HOGGIN			, u .bu	1.00 _B	43.8	36.1	18.1		
			(3.40)						
			(3.40)	3.00 g	61.0	31.9	7.1		
		s	4.00						
fellow fine clayery SAND			/2 001						
			(2.00)	15					,
			6.00						
			31						
: *									
*									
34									
		*							

Bulk disturbed (bag) sample
 Small disturbed (jar) sample
 Water Strike
 Standing water level measured

NOTES

CPT - Cone Penetration Test
- Standard Penetration Test
- Utco
- Undisturbed Sample
- Water Sample

SCALE 1:75

TOTAL DEPTH 6.00 METRES LOGGED BY W K J Caborn

DATE LOGGED

SITE NAME Hamble Airlield,	DRILLING METHOD Power Auger CASING DETAILS 1 to to to to to to to								
SITE REF.	GROUND LEVEL CO-ORDINATES DATE DRILL m AOD E N START : 14 TREND PLLINGE -90.0 FINISH : 14						14/6/95		
DESCRIPTION	REDUCED LEVEL (m AOD)	LEGENO	DEPTH & (THICONESS) (m)	SAMPLE CEPTH CHE & TYPE	GRAVEL	GRAD INGS	FINES	PIESSHETER EKSTALL- ATION	REMARKS
TOP SOIL and SUBSOIL. Yellow CLAY HOGGIN			0.60 (0.60) 1.20 (0.60) (2.30)	2.008	53.4	29.0	7.5		
Brown GRAVEL		0 0	_ 3.50 - (2.00)	4.00 _B	70.0	24.8	5.2	1	* 3.5CM
Yellow fine SAND	-		5.50 5.00 (0.50)						

NOTES		TOTAL DEPTH 8.00 METRES LOGGED BY W.K.J. Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test	DATE LOGGED
- Small cisturbed (ar) sample - Water Strike - Standing water level measured	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

Hamble Airfield,			HOD Power / F. RMC 0836	4			ETALS	3	to to to		
ITTE REF.	GHOUND CEVEL S							START :	DATE DRILLED START : 14/6/95 FINISH : 14/8/95		
DESCRIPTION	REDUCED LEVEL (m ACD)	LEGENO	DEPTH & (THICKNESS)	SWPLE CEPTH SHE B THRE	GWEL	SANO SANO	FTHES	MEDICAL: NEDECTO	REMARKS		
TOP SOIL Soft brown sandy CLAY HOGGIN		**************************************	0.30 (0.30) 0.90 (0.60) (4.80)	1.50 _g		38.3	10.5 8.5				

NOTES		METRES LOGGED BY W K J Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Panetration Test	DATE LOGGED
D - Small disturbed (aar) sample Vater Strike Small disturbed (aar) sample	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

Hamble Airfield,	GROUND LEVEL ST							2 to			
DESCRIPTION	REDUCED	LEGENO	DEPTH (THICKNESS)	STAPLE DEPTH DIS A TYPE		GRADENG: SAND	FINES	PERSONATER DISTALL- ATION	REMARKS		
TOP SOIL Brown CLAY HOGGIN Yellow green fina SAND			(1.70) 2.00 (3.50) 5.50 6,00 (0.50)						•		

		LOGGED BY W KJ Osborn
Standard Penetration Test Undisturbed Sample	411	SCALE 1:75
	- Standard Penetration Test 00 - Undisturbed Sample	- Standard Penetration Test - Undisturbed Sample

LAND SEARCH					SHEET		0,242,51	OF	to 1
rre NAME Hamble Airfield,			HOD Power/ F. RMC 0636	6	10.00		ETAILS	3	to to
ITE REF.	m AOC	ND LEVE		CO-OR E N NGE -9	DINATES 0.0	3		DATE DR START : FINISH :	14/6/95
	REDUCED		0EPTH å	SHPLE OCTIN ON	. (RADING	5	PIEROPETOR DISTRILL-	REMARKS
DESCRIPTION	(n ADD)	LEGENO	(W) (JHIOWEZZ)	Tope	GOVEL.	SANO	FINES	ATIBA	
TOP SCIL Brown sandy CLAY HOGGIN			(1.70) 2.00 (1.80)	2.20 ₈		38.2	12.7		
Brown sandy GRAVEL Yellow green fine SAND		0 0	(2.00) 5.50 6.00 (0.50)	4.00 _B	44.1	48.4	7.5		,

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NOTES .		TOTAL DEPTH 6.00 METRES
Access Materials		LOGGED BY WKJ Osborn
3 - Bulk distarbed (bag) sample	CPT Cone Penetration Test	DATE LOGGED
- Small disturbed (jar) sample - Water Strike	SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample	SCALE 1:75

RMC READY MIXE	D CONCR	ETE ATION	(UK) LTI I DEPT.)	BOR	EHOLI	-		95
TE NAME Hamble Airfield,			HOD Power / F. RMC 0636		C	ISING D	ETAILS	3	to to to
ITTE REF.	m AC TRIEN	DINATE 0.0	S		DATE DRILLED START: 14/6/95 RNISH: 14/6/95				
DESCRIPTION	REDUCED LEVEL (m AOO)	LEGEND	DEPTH & CTHICKNESS)	SWPLE COPTH (A) & TYPE		SAVO		PICED-ETER DISTAL- AFTOR	REMARKS
TOP SOIL		***	(0.60)						
Brown soft CLAY			(1.60)						
*			2.20						
HOGGIN		- 1 - 1	(1.30)	3.00 ₈	30.0	56.0	14.0		
Yellow green CLAY		==	4.00 (0.50)						
Brown GRAVEL			(2.50)	5.008	49.1	41.2	9.7		k
Yellow green fine SAND		e 6	(1.00)			.,			
19									
1.63									
	*		10						
			*						
						20			
						70.0			

CPT - Cone Penetration Test SPT - Standard Penetration Test U100 - Undisturbed Sample W - Water Sample

NOTES

MANDO

Bulk disturbed (bag) sample
 Small disturbed (jar) sample
 Water Strike
 Standing water level measured

TOTAL DEPTH 7.50 METRES LOGGED BY W K J Osborn

DATE LOGGED

SCALE 1:75

TE NAME Hamble Airfield,	DRILLING METHOD Power Auger CASING DETAILS 1 to to to LOG BOOK REF. RMC 06368 3 to								
ITE REF.	GROUND LEVEL CO-CROINATES DATE DRILLET START: 14/6/ TREND								14/6/95
DESCRIPTION	REDUCED LEVEL (m. ACD)	LEGEND	OEPTH 6 (THICOMESS)	SAMPLE CEPTH (H) &	GRAVEL	SAND	FINES	PIERONLITOR DISTRAL- ATION	REMARKS
TOP SOIL	97.53	8888	(m) 0.30 (0.30)	TYPE					
Brown soft GLAY			(1.70)						
HOGGIN		7 7	(2.00)	3.00 _B	48.4	39.9	11.7		
Brown sandy GPAVEL		0 0	_ 4.00 (1.00) 5.00	4.50 _B	58.8	33.9	7.3		
Green yellow line SAND			(1.00)						

4OTES		TOTAL DEPTH 6.00 METRES LOGGED BY W K J Osborn
3 + Bulk disturbed (bag) sample	SPT - Cons Penetration Test SPT - Standard Penetration Test	DATE LOGGED
Small disturbed (jar) sample Water Strike Standing water level measured	SPT - Standard Penetration Test Ut00 - Undisturbed Sample W - Water Sample	SCALE 1:75

Hamble Alriield,	LOG BOOK PEF. PMC 06369 CASING DETAILS 1 to								
SITE REF.	GROUND LEVEL CO-ORDINATES DATE DR START: M AOD E N FINISH:						14/6/95		
DESCRIPTION	REDUCED LEVEL (m JOD)	LEGEND	OEPTH & (THIOKNESS)	SAMPLE DEPTH (M) A TWE	GRAVEL.	SAVO	FINES	MEDIAL- NUM MEDIAL-	REMARKS
TOP SOIL. Brown clayey SAND HOGGIN			_ 0.30 (0.30) _ (0.70) _ 1.00	2.00 _B	65.9	28.7	6.4		
Brown sandy GRAVEL			(2.50)	4.00 _B	58.2	37.0	4.8		
Green yellow SAND		9 d	(2.00) 5.50 5.00 (0.50)		00.2				,

NOTES	*	2	6.00 METRES LOGGED BY W.K.J. Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test	148	DATE LOGGED
D - Small disturbed (jar) sample □ - Water Strike □ - Standing water level measured	SPT - Standard Penetration Te U100 - Undisturbed Sample W - Water Sample		SCALE 1:75

DEPTH

Hamble Airfield,	DRILLING ME	DRILLING METHOD Power Auger LOG BOOK REF. RMC 05370 BOREHOL SHEET CASING					2 to 3 to	
SITE REF.	m AOD TRIEND	B.		DINATE 0.0	S		DATE DE START : FINISH :	14/6/95 14/6/95
DESCRIPTION	REDUCED LEVEL (n ADD)	DEPTH & (THIOXNESS) (m)	THE SHIPE	GRAVEL	SANO	FINES	PIKEONETER INSTALL- ATION	REMARKS
YOP SOIL.		0.30 (0.30)	- 1					
Brown sandy CLAY		(1.10)	1.50 ₈			20.7		
HOGGIN	7.7.	(1.10)	18	30.9	48.4	20.7		
Brown sandy GPAVEL	0.0							
	o . o .	(3.00)	4.00 _B	43.8	48.1	8.1		
	0.6	5.50						,
Yellow green fine SAND	12.22	6.00 (0.50)		1	_			
	×						(2)	
								ės –
NOTES			· V····					TOTAL DEPTI 6.00 METRES LOGGED BY W.K.J. Osbori DATE LOGGE
B - Bulk disturbed (bag) sample D - Small disturbed (ar) sample V - Water Strike S - Standing water level measured	COT	Cone Penetration Standard Penet Undisturbed Sa Water Sample	ration Te	st				SCALE 1:75

SITIE NAME Hamble Airfield,	LOG BOOK REF. PMC 06371					CASING DETAILS		3	to to to
SITE REF.	GROUND LEVEL CO-ORDINATES DATE DRILLED								
DESCRIPTION	REDUCEO	EL LEGENO CHICCHESS	- 4	SWPLE SOPTH (M)			POLICIER	REMARKS	
	(m AOD)		(THICKNESS) (n)	THE	GRAVEL	SAND	FINES		LEMANA
Soft sandy CLAY HOGGIN		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(1.90) (1.90) 4.00	3.00 _B	40.7	40.1	19.2		
Yellow fine SAND			(1.00)	(4)					

NOTES

B - Bulk disturbed (bag) sample
D - Small disturbed (jar) sample
V - Vater Strike
V - Standing water level measured

TOTAL DEPTH
5.00
METRES
LOGGED BY
WK J Osborn
DATE LOGGED

SPT - Standard Penetration Test
U100 - Undisturbed Sample
V - Water Sample

NOTES		TOTAL DEPTH 6.00 METRES LOGGED BY W K J Osborn
B - Bulk disturbed (bag) sample	CPT - Cone Penetration Test SPT - Standard Penetration Test	DATELOGGED
Small disturbed (jar) sample Water Strike Standing water lovel measured	U100 - Undisturbed Sample W - Water Sample	SCALE 1:75



Appendix 3 – Phasing Overview Plan





