

Project				ROTARY BOREHOLE No
Pinhole Clay I	Pit			INCA
Job No	Date 26-11-09	Ground Level (m)	Co-Ordinates ()	INC1
WE00298	27-11-09	87.23		
Contractor		-	-	Sheet
Associated Dr	illing Services			1 of 2

Ī	F	RUN I	DETA	AILS					STRATA	,		Instrument/
	Depth	тср	(SCR)	POD	(SPT)	Lagand	Depth (Thick-		DESCR	RIPTION	Geology	Lum Fein
		TCK	(SCR)	RQD	FI		ness)	Discontinuities	Detail	Main	Gec	Inst
							(1.60) 1.60			Firm red brown sandy gravely CLAY. Gravel is of mudstone and sandstone fragments.		
							(1.40) 3.00			Extremely weak grey brown MUDSTONE with occasional sandstone bands.		
TER OFFICE/PROJECTS/WE00288 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENVICB DATA/GINT/WE00298 GPJ CLARKE BOND.GDT 12/02/2010 15:50:43					→		3.00					
JECTS/WE00298 - PINHOE C												
ER OFFICE/PRO												

EXETE		Drilling	Progres	s and Wa	ater Obse	rvations		Rotary Flush					GENERAL	
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	ater Standing	g	From	То	Type	Returns	REMARKS	
06 R:\(26-11-09 26-11-09 27-11-09	13.00 16.00 07.45	0.00 15.00 15.00			15	13.5						Borehole terminated at proposed depth. Hole completed with raised top hat cover	
All dimensions in metros Client Pinhoe Quarry I I P Method/													Logged Ry	

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Plant Used Comacchio 205 Logged By APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			INC1
Job No	Date 26-11-09	Ground Level (m)	Co-Ordinates ()	INC
WE00298	27-11-09	87.23		
Contractor			•	Sheet
Associated Dri	lling Services			2 of 2

F	RUN DETAILS								STRATA					
ŀ	1									AIDELON		50	Instrument/ Backfill	
L	Depth	TCR	(SCR)	RQD	(SPT) FI	Legend	(Thick-			RIPTION		Geology	strui ckfi	
L					FI		ness)	Discontinuities	Detail	Main		ဗီ	Ins	
EKETER OFFICE/PROJECTS/WE00288 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENVICE DATAGINT/WE00288, GPJ CLARKE BOND GDT 12/02/2010 15:50-43		Dri	lling	Ριωστ	ess and	Wate	r Ohsen	vations	Rot	Weak grey brown MUD some sandstone bands.(a) End of hole at 40mbgl.		DAI		
SW EX				Denth			ore Dia	Water			GENE REMA	KAL		
in I	Date	1 Ti-	me	Donth	· I Coc	ina IU	JIC DIA	vv atti	From To	Type Returns	K E.IVI A	C / N		

EXET		Drilling	Progres	s and Wa	ater Obse	rvations		Rotary Flush				GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	ater Standing	From	To	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\CBSW EXET	27-11-09	13.00	40.00				Ĭ					Borehole terminated at proposed depth. Hole completed with raised top hat cover
m۲			CI	' D'	1 0	TID	3.4.41	- 1/				I I D

All dimensions in metres Scale 1:156.25

Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205

Logged By APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			INC2
Job No	Date	Ground Level (m)	Co-Ordinates ()	INCZ
WE00298	30-11-09	87.46		
Contractor				Sheet
Associated Dri	lling Services			1 of 2

Ī	F	RUN I	DET <i>A</i>	AILS					STRATA				nt/
Ī	Depth	TCD	(CCD)	DOD	(SPT)	T	Depth		DESCR	RIPTION		Geology	rame Kfill
Ī	•	ICK	(SCR)	RQD	FI	Legend	(Thick- ness)	Discontinuities	Detail	Main		Geo	Inst
LEFE OFFICEIPROJECTS/WE00288 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENVICE DATA/GINTI/WE00288.GPJ CLARKE BOND.GDT 12/02/2010 15:50:53					Ţ.		0.80 0.80 0			Firm red brown sandy g Gravel is of mudstone a fragments. Extremely weak grey by MUDSTONE with occas andstone bands. Very weak grey brown with some sandstone bas sandstone bas some sandstone bas some sandstone bands.	rown asional MUDSTONE ands.	9D	instrument/ instru
Шĺ		D:	11: 1	D		1 117-4-	r Obsar	4:	D -4	ory Fluch	CENTE		

EXETE		Drilling	Progres	s and Wa	ater Obse	rvations		Rotary Flush					GENERAL	
SBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	<u> </u>	From	To	Type	Returns	REMARKS	
BGE ROTARY BOREHOLE LOG NAC	Date 30-11-09 01-12-09 01-12-09	13.00 07.45 13.30	0.00 0.00 25.00			15.5	12.5						Borehole terminated at proposed depth. Hole completed with raised top hat cover	
8	All dima	naiona in r	notros Cl	ient Din	hoe Ouar	ry IID	Me	-tho	d/				Logged Ry	

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 Logged By APC



	nomin bon	EHOLL LOG	
			ROTARY BOREHOLE N
it			INC2
Date	Ground Level (m)	Co-Ordinates ()	INCZ
30-11-09	87.46		
			Sheet
lling Services			2 of 2
LS		STRATA	ent/
	Date 30-11-09 Illing Services	it Date Ground Level (m) 87.46 Iling Services	Date Ground Level (m) Co-Ordinates () 30-11-09 87.46

F	RUN I	DETA	ILS					STRATA				ent/
Depth	тср	(SCR)	DOD	(SPT)	Lagand	Depth (Thick-		DESCR	RIPTION		Geology	Instrument/ Backfill
	ICK	(SCR)	RQD	(SPT) FI	Legend	ness)	Discontinuities	Detail	Main		Geo	Inst
EXEER OFFICE:PROJECTS WEW.289 - FINTOE CLAT FIT SPRODUCTION WAT - GEO ENVIGE DATABLE INVESTGES, GFO CLARRE BOND, GDT 1 2/0/2/01 15:0/34	Dri	lling H	Progre	ess and	Wate	r Obser	vations		Weak grey brown MUI some sandstone bands.(GENE		

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EXETE		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL	
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	То	Type	Returns	REMARKS	
SBGE ROTARY BOREHOLE LOG N:\(C	Date 30-11-09 01-12-09	16.30 16.30	40.00 45.00				Ĭ					Borehole terminated at proposed depth. Hole completed with raised top hat cover	
m			CI	· . D.	1 0	TID	3.6.4	1/				T 1D	

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205 Logged By APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW1
Job No	Date	Ground Level (m)	Co-Ordinates ()	IVIVVI
WE00298	26-11-09	88.96		
Contractor				Sheet
Associated Dri	lling Services			1 of 3

Ī	F	RUN I	DETA	AILS					STRATA				KInstrument/ RBackfill
	Depth	тср	(SCR)	BOD	(SPT)	Legend	Depth		DESCR	RIPTION		Geology	ram kfill
		ICK	(SCK)	RQD	FI		ness)	Discontinuities	Detail	Main		Gec	Inst Bac
							(1.50) 1.50			Firm red brown sandy g Gravel is of mudstone a fragments.	and sandstone		X 2 X 2
							(1.50) 3.00			Extremely weak grey by MUDSTONE with occasional sandstone bands.	asional		
EXETER OFFICE/PROJECTS/WE00298 - PINHOE CLAY PITS/PRODUCTIONIDATA - GEO ENVICB DATA/GINT/WE00298.GFU CLARKE BOND.GDT 12/02/2010 15:50:56					Ţ		(17.00)			Very weak grey brown with some sandstone ba	MUDSTONE ands.		
TER OFFICE/PROJECTS/WE00298 - PINHOE CLAY PITS/PRODI							20.00			Weak grey brown MUI some sandstone bands.			
EXET		Drilling Progress and Water O					r Obser	vations	Rota	ary Flush	GENE	RAL	

EXET		Drilling	Progres	s and Wa	iter Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	To	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\(C	Date 26-11-09 26-11-09	08.00 12.00	0.00 20.00									Borehole terminated at proposed depth. Hole completed with raised top hat cover
۵ آ			CI	innt Div	l O	T T D	Mad	- a d /				Looped Dry

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 APC



		•	NOTAKI DOK	EHOLE LOG			
Project					ROTARY BO	OREHO	OLE No
Pinhole Clay	Pit				N.41	A 14	
Job No	Date		Ground Level (m)	Co-Ordinates ()	M\	/V I	
WE00298	26-11	-09	88.96				
Contractor					Sheet		
Associated D	rilling Service	es			2 o	f 3	
RUN DETA	ILS			STRATA			ment/ ïll
		Dent	h	DECEDIBLION		80	I∄⊞

	100001	ateu 1	71111111	g Scrv.	1005								20	1 3	
R	UN I	DET <i>A</i>	AILS						STRA	ГΑ					ent/
Depth	TCD	(CCD)	DOD	(SPT)		Depth (Thick-	ı		Г	ESCR	IPTION			logy	rum(Kfill
	TCR	(SCR)	RQD	(SPT) FI	Legen	ness)	Discont	inuities		Detail		Main		Geology	Insti Bac
	Dril	lling l	Progre	ess and	Wate	արարկարակարակարակարակարակարակարակարակար	rvations			Rota	Weak grey be some sandst	orown MUI	GENE		Instrument/Backfill Backfill Backfill
Date	Tir		Depth		ing C	Core Dia	Strika	ater Standing	From	То	Type	Returns	REMA		
				+		111111	30	12.5			71		Borehole termi	inated	at

R OFFICE												
EXETE		Drilling	g Progres	s and Wa	ater Obse	rvations			Rotar	y Flush		GENERAL
CBSW	Date	Time	Depth	Casing	Core Dia	Strike	ater Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\(30	12.5					Borehole terminated at proposed depth. Hole completed with raised top hat cover
Log *08B		ensions in ale 1:156.2		lient Pin	hoe Quar	ry LLP	Met Plan	hod/ t Used	Comac	chio 205		Logged By APC



]	ROTAR	RY BOR	REHOLI	E LO	G				
Project													ROTARY BO	OREHO	DLE No
	nhole	e Clay	/ Pit										NA V	W 1	
Job No			Dat				Ground L		Co-Or	dinates	()		141		
Contracto	E002	98		26-	11-09)	8	8.96					Sheet		
		ated I	Orilling	Sorv	ices									f 3	
		DET A		3 BCI V					STRAT	ΓΛ			30		4
ъ л				(CDT)		Dept	h				RIPTION			ygc	Instrument/ Backfill
Depth	TCR	(SCR)	RQD	(SPT) FI	Legen	d (Thick- ness)	Discont	inuities		Detail		Main		Geology	Instru Back
Date						57.0	0				End of hole		OSTONE with (continued)		
	Dril	ling l	Progre	ss and	l Wat	er Obse	ervations			Rota	ary Flush		GENE	RAL	1
	Tir		Depth	Cas	ing	Core Dia mm		ater Standing	From	То	Type	Returns	REMA		
26-11-09	16.	00	57.00										Borehole term proposed depth completed with hat cover	n. Hole	;

All dimensions in metres Scale 1:156.25

Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205

APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW2
Job No	Date	Ground Level (m)	Co-Ordinates ()	IVIVVZ
WE00298	18-11-09	61.87		
Contractor				Sheet
Associated Dri	lling Services			1 of 2

Ī	F	RUN I	DETA	ILS					STRATA				ent/
	Depth	тср	(SCR)	POD	(SPT) FI	Lagand	Depth (Thick-		DESCR	RIPTION		Geology	Instrument/ Backfill
		ICK	(SCK)	СОУ	FI	Legenu	ness)	Discontinuities	Detail	Main		Gec	Inst Bac
							1.00			Firm red brown slightly gravelly CLAY. Grave mudstone and sandstone Extremely weak grey by MUDSTONE with occasandstone bands.	l is of e fragments. / rown asional		
CLARKE BOND.GDT 12/02/2010 15:50:59					Ţ		(7.00)			Very weak grey brown with some sandstone ba			
W EXETER OFFICE/PROJECTS/WE00298 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENVICB DATA/GINT/WE00298,GPJ CLARKE BOND,GDT 12/02/2010 15:50:59							(20.00)			Weak grey brown MUI some sandstone bands.	OSTONE with		
XETER		Dri	lling I	Progre	ess and	Wate	r Obser	vations	Rota	ary Flush	GENE	P A I	<u></u>
<u>∭</u>							ore Dia	Water	<u> </u>		DEMA		

EXETE		Drilling	Progres	s and Wa	iter Obse				Rotary	Flush		GENERAL
CBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\CBSW EXETE	18-11-09 18-11-09	08.00 10.00	10.00			10	9					Borehole terminated at proposed depth. Hole completed with raised top hat cover
æ				Logged Ry								

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205 Logged By APC



Project												ROTARY BO	REHO	DLE No
I	Pinhol	e Clay	/ Pit									RAN	MA	
Job No			D	ate		Ground 1	Level (m)	Co-O	rdinates	()		IVIN	N2	
	/E002	98		18-	-11-09		61.87							
Contrac												Sheet		
				g Serv	ices							2 o	f 2	
I	RUN I	DET/	ILS					STRA					>	Instrument/ Backfill
Depth	TCR	(SCR)	ROD	(SPT) FI	Legend (Thi	epth ck-				RIPTION			Geology	trun
		` ´		FI	ness) Discor	ntinuities		Detail	X7 - 1 1	Main	CTONE:41	g	Ins
										some sandst	one bands.(a	STONE with continued)		
					3	0.00				End of hole	at 30mbgl			
										Life of noic	at Joiniogi.			
					ատևատևատևատևատևատևատևատևատևատև									
								П			1			
					Water Ol	oservation	S Vater	F.		ary Flush		GENE REMA		
Date	Ti		Depth	_	Sing Core I mm	Strike	Vater Standing	From	То	Туре	Returns			0.4
18-11-09	12.	.00	30.00									Borehole termi proposed depth	. Hole	
												completed with	raiseo	d top
All din	nension	ıs in me	etres	Client	Pinhoe Q	arry LLP	Met	hod/	_			Logged By		
So	ale 1:1	56.25			_	-	Plan	t Used	Coma	acchio 205		AP	С	



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW3
Job No	Date	Ground Level (m)	Co-Ordinates ()	IVIVVS
WE00298	17-11-09	58.09		
Contractor				Sheet
Associated Dri	lling Services			1 of 2

Ī	F	RUN I	DETA	ILS				STRATA				ent/
	Depth	TCR	(SCR)	BUD	(SPT) FI	Depth Legend (Thick-		DESCR	RIPTION		Geology	KInstrument/ RBackfill
		TCK	(BCR)	RQD	FI	ness)	Discontinuities	Detail	Main		Geo	Inst Bac
						1.50)			Firm red brown slightly gravelly CLAY. Grave mudstone and sandstone	l is of		X 2 X 2
						(1.50)			Extremely weak grey by MUDSTONE with occasional sandstone bands.			
01									Very weak grey brown with some sandstone ba	MUDSTONE ands.		
/2010 15:51:0												
EXETER OFFICEIPROJECTS/WE00298 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENVICB DATA/GINT/WE00298 GPJ CLARKE BOND.GDT 12/02/2010 15:51:01												
CLARKE BON						(11.00)						
E00298.GPJ					1							
DATA\GINT\M					<u>‡</u>							
SEO ENV/CB					_	14.00			Weak grey brown MUI some sandstone bands.	OSTONE with		
ION\DATA - (
SIPRODUCT												
OE CLAY PIT												
00298 - PINH												
OJECTS/WE((16.00)						
OFFICE\PR												
XETER		Dri	lling I	Progre	ess and	Water Obser	vations	Rota	ary Flush	GENE	RAL	<u></u>

EXET		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	ter Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG NICBSW EXET	17-11-09 17-11-09	08.00 10.00	0.00 14.00			14	12					Borehole terminated at proposed depth. Hole completed with raised top hat cover
ĕ.	4 11 11		. C1	iont Dia	haa Owan	I I D	Moti	204/				Loggad Dy

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Plant Used Comacchio 205 Logged By APC



Project							CIAR	1 201		LLO	<u> </u>		ROTARY BO	OREHO	DLE No
	Pinhol	e Clay											M	N 3	
Job No			D	ate	44.00		Ground Le		Co-O	rdinates	()		141 /	143	
Contrac	/E002	98		17-	11-09		58	3.09					Sheet		
		ated I	Orillin	ig Serv	ices									f 2	
		DETA		ig berv					STRA	ΤΛ				1 2	<i>f</i> .
				(CDT)		Depth	ո				RIPTION			ygc	Instrument/ Backfill
Depth	TCR	(SCR)	RQD	(SPT) FI	Legend	(Thick- ness)	Disconti	nuities		Detail		Main		Geology	nstr 3ack
											Weak grey b		STONE with continued)		
						30.00					End of hole				
	Dri	lling I	Progr	ess and		<u> </u>	rvations			Rot	ary Flush		GENE	DΛT	<u> </u>
Date	Tin		Depth		ing C	ore Dia	Wa Strike	ter Standing	From	То	Type	Returns	REMA		
17-11-09	9 13.	.00	30.00	_			ZAINU						Borehole termi proposed depth completed with hat cover	. Hole	
All din	nension	s in me	etres	Client	Pinho	e Quar	ry LLP	Metl Plan	hod/ t Used	Coma	acchio 205		Logged By AP	 C	



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW4
Job No	Date	Ground Level (m)	Co-Ordinates ()	IVI VV4
WE00298	25-11-09	65.49		
Contractor				Sheet
Associated Dri	lling Services			1 of 2

	T.	PI INI I	DET <i>A</i>	711 6				STRATA)
		COIVI		ILS		Depth			RIPTION		gy	mer ill
	Depth	TCR	(SCR)	RQD	(SPT)	Legend (Thick-	Discontinuities				eolo	stru ackf
EXETER OFFICE/PROJECTSWE60228 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENV/CB DATAGINT/WE60258 GPJ CLARKE BOND.GDT 12/02/2010 15:51:02	Берш	TCR	(SCR)	RQD	FI T	Legend (Thickness) - (1.20) - (1.80) - (1.80) - (1.20) - (1.80) - (1.80) - (1.80) - (1.80)	Discontinuities	Detail	Main Firm red brown slightly gravelly CLAY. Grave mudstone and sandstone Extremely weak grey bin MUDSTONE with occas andstone bands. Very weak grey brown with some sandstone bands. Weak grey brown MUE some sandstone bands.	l is of e fragments. rown asional MUDSTONE ands.	Geology	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
TER OFFICE\PROJECTS\WE00298 - PINHOE CLAY PITS\PRODUCTIO						(15.00)						
EXE		Dri	lling l	Progre	ess and	Water Obser	vations	Rota	ary Flush	GENE	RAL	

EXET		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
N:\CBSW EXET	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	To	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\(C)	25-11-09 25-11-09	10.00 12.30	0.00 15.00			15	12					Borehole terminated at proposed depth. Hole completed with raised top hat cover
m			CI	' D'	1 0	TID	3.4.41	1/				I I D

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 APC



Project						<u> </u>	COTAN	Y BUR	LHOL	E LO	G		ROTARY BO	REHO	DLE No
_	inhol	e Clay	/ Pit												22110
Job No				ate			Ground Le	evel (m)	Co-O	rdinates	()		- MI	N 4	
	E002	98		25-	11-09		6	5.49							
Contrac													Sheet		
				g Serv	ices								2 o	f 2	
F	RUN I	DETA	ILS	1					STRA					53	Instrument/ Backfill
Depth	TCR	(SCR)	RQD	(SPT) FI	Legeno	Depth (Thick-			I		RIPTION			Geology	strun ıckfi
				1.1		ness)	Discont	inuities		Detail	Weak grey h	Main	STONE with	Ğ	In B
						1					some sandst	one bands.	continued)		
						<u> </u>									
						30.00	<u>)</u>				End of hole	at 30mbgl.			<u> </u>
	Dri	lling l	Progr	ecc and	l Wate	Ε	rvations			Pot	ary Flush		CENE	D A I	
Date	1	me	Depth			ore Dia	Vations Wa	nter Standing	From	To	Type	Returns	GENE REMA		
25-11-09	_	.00	30.00			111111	Suike	Statiuling			J F -		Borehole termi	nated	
													proposed depth completed with	. Hole raised	d top
													hat cover		1
All din	nension ale 1:1	s in me 56.25	etres	Client	Pinho	e Quar	ry LLP	Met Plar	hod/ it Used	Coma	acchio 205		Logged By AP	C	



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW5
Job No	Date 01-12-09	Ground Level (m)	Co-Ordinates ()	IVIVO
WE00298	02-12-09	79.79		
Contractor		•		Sheet
Associated Dri	lling Services			1 of 2

	133001	accu i		g SCI V	ices								1 0		
F	RUN I	DETA	AILS						STRAT	ГΑ				_	ent/
Depth	TICE	(CCE)	D.C.D	(SPT)	,	Depth	1		D	ESCR	IPTION			logy	um. Efill
_ cpm	TCR	(SCR)	RQD	(SPT) FI	Legen	d (Thick- ness)	Discont	inuities		Detail		Main		Geology	Instrument/
						(1.20))			,	Firm red bro gravelly CL mudstone an	AY. Grave	l is of		
						(1.80)					Extremely w MUDSTON sandstone ba	eak grey be E with occ	rown	I	
										•			MUDSTONE ands.		
50.00															
12/02/20															
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5						(25.00)								I	
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				_1											
Date O1-12-09				$\dot{\bar{\uparrow}}$											
	Dri	lling 1	Progre	ess and	Wate	er Obsei	rvations			Rota	ary Flush		GENE	RAI	
Date	Tiı		Depth		ing	Core Dia		ater Standing	From	То	Type	Returns	REMA	RKS	
01-12-09	13.	.00	0.00		-	111111	Buike	Standing					Borehole termi		at

EXETE		Drilling	Progres	s and Wa	iter Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	То	Type	Returns	REMARKS
BGE ROTARY BOREHOLE LOG N:\(C	Date 01-12-09	13.00	0.00				Č					Borehole terminated at proposed depth. Hole completed with raised top hat cover
m	A 11 11		. C1	iont Dia	haa Ouan	I I D	Motl	204/				Loggad Py

All dimensions in metres Scale 1:156.25

Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205

Logged By APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW5
Job No	Date 01-12-09	Ground Level (m)	Co-Ordinates ()	INIVO
WE00298	02-12-09	79.79		
Contractor				Sheet
Associated Dri	lling Services			2 of 2

F	RUN I			.5 .501 / .				STRATA		L	nt/
Depth				(SPT)		Depth			RIPTION		Geology Instrument/
Бери	TCR	(SCR)	RQD	(SPT) FI	Legend	(Thick- ness)	Discontinuities	Detail	Main		Geol
				٠					Very weak grey brown I with some sandstone bar (continued)	MUDSTONE nds.	
						28.00			Weak grey brown MUD some sandstone bands.	STONE with	
	Dri	lling I	Progre	ess and	Wate	r Obser	vations	Rota	ary Flush	GENE	RΔI
Date			Denth			ore Dia	Water	From To	Type Returns	REMA	RKS

EXET		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	nter Standing	From	То	Type	Returns	REMARKS
SBGE ROTARY BOREHOLE LOG N:(C	Date 01-12-09 02-12-09 02-12-09	16.30 07.45 12.00	28.00 28.00 45.00			28	23.6					Borehole terminated at proposed depth. Hole completed with raised top hat cover
m [CI	ions Div	1	I I D	Mad	- a d /				Laggad Dry

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205 APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			MW6
Job No	Date	Ground Level (m)	Co-Ordinates ()	IVIVVO
WE00298	02-12-09	88.81		
Contractor				Sheet
Associated Dri	1 of 3			

ľ	Ę.	RUN DETAILS						STRATA)£
-		COIVI		ILS	(G.D.E.)	Depth			RIPTION			gy	Instrument/
-	Depth	TCR	(SCR)	RQD	(SPT) FI	Legend (Thick-				Main		Geology	ack
BSW EXETER OFFICE/PROJECTS/WE00298 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENV/CB DATA/GINT/WE00298.GPJ CLARKE BOND GDT 12/02/2010 15:51:06					1	ness) 2 (1.40) 2.30 (15.70)		Detail		AY. Grave and sandstone weak grey brith occa ands. grey brown andstone ba	l is of e fragments. rown asional MUDSTONE nds. DSTONE with		International Control of the Property of the
SW E	Date	Ti		Depth		0 5:	Water Strike Standing	From To		Returns	GENE REMA		
ĕ	Date	111	110	Debm	- Las	mm	Strike Standing	140111 10	, Type	Ketuins	111/1/1/1		

EXETE		Drilling	Progres	s and Wa	ter Obse	rvations			Rotary	Flush		GENERAL
CBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
	01-12-09	13.00	0.00			18	12.5					Borehole terminated at proposed depth. Hole completed with raised top hat cover
8B	All dima	ncione in r		Logged By								

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Plant Used Comacchio 205 Logged By APC



Project						I	COTAN	Y BUR	EHOL	E LO	G		ROTARY BO	REHO	DLE No
I	Pinhol	e Clay	/ Pit												
Job No			D	ate			Ground Le		Co-C	Ordinates	()		– M\	VO	
	/E002	98		02-	12-09	9	8	8.81					Sheet		
Contrac		atad I	Drilli n	ig Serv	icas								Sneet 2 o	f 3	
				ig Serv	lees				STRA	т.			2.0	1 3	4
	RUN I			(CDT)		Deptl	n				RIPTION			ogy	Instrument/ Backfill
Depth	TCR	(SCR)	RQD	(SPT) FI	Leger	d (Thick- ness)	Discont	inuities	<u> </u>	Detail		Main		Geology	nstr 3ack
											Weak grey l		OSTONE with continued)		
											some sandst	one bands.	commuea)		
						#									
						(39.00									
						#									
						<u> </u>									
						₹			П			1			
Date		lling l					rvations Wa	nter	Enom	Rot	ary Flush	Datama	GENE REMA		
Date	111	me	Depth	Cas	ing	Core Dia mm	Strike	nter Standing	From	10	Туре	Returns	Borehole termi		
													proposed depth completed with	. Hole	,
													hat cover	1 1 1150	a top
All din	nension ale 1:1	s in mo 56.25	etres	Client	Pinh	oe Quar	ry LLP	Met Plan	hod/ it Used	Coma	acchio 205		Logged By AP	С	



							ROTARY BOR	EHOLL LO	•			
Project										ROTARY BO	OREHO	DLE N
]	Pinhol	e Clay	Pit							NAV	W 6	
Job No			Γ	Date			Ground Level (m)	Co-Ordinates	()	IVI	770	
	VE002	298		02-	12-09		88.81					
Contrac										Sheet		
1	Associ	iated I	Orilli	ng Serv	ices					3 0	of 3	
]	RUN I	DETA	ILS				_	STRATA				ent/
Depth	TCR	(SCR)	ROD	(SPT) FI	Legend	Dept (Thick-		DESCI	RIPTION		Geology	Instrument/
	TCK	(BCR)	RQD	FI	Legend	ness)	Discontinuities	Detail	Main		Gec	Inst
THE CONTROL OF THE CO						57.0	0 ervations		Weak grey brown MUL some sandstone bands.(GENE		

EXETE		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG NICBSW EXETE	01-12-09	16.30	57.00				·					Borehole terminated at proposed depth. Hole completed with raised top hat cover
8B	All dime	ncione in r	natras Cl	ient Pin			Logged By					

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205 Logged By APC



Project				ROTARY BOREHOLE No									
Pinhole Clay P	it			MW7									
Job No	IVI VV 7												
WE00298	03-12-09	78.41											
Contractor													
Associated Dri	lling Services			1 of 2									

	RUN DETAILS Depth TCR (SCR) RQD (SPT)						1		STRA						KInstrument/ RBackfill
Dep	th TCR	(SCR)	RQD	(SPT)	Legen	Depth d(Thick-					IPTION			Geology	strun ckfil
		<u> </u>		FI	ļ	ness)	Discont	inuities		Detail	Eigen and I	Main	condy	Ge	K Ins RBa
						(1.50)					Firm red bro gravelly CL mudstone an	AY. Grave	l is of		
						1.50					Extremely v	nd sandston veak grev b	e fragments.		
						(1.50)					Extremely v MUDSTON sandstone b	E with occa	asional		
											Very weak	grey brown	MUDSTONE ands.		
											with some s	anastone of	inds.		
Date															
															目
						(22.00)									
															目
				4											
				₹											
				Ţ	Y	25.00			1						
-						er Obser Core Dia	vations w	nter	-	1	ary Flush	D.:	GENE REMA		
Date	Ti	me	Depth	Cas	ing	mm	Strike 25	ter Standing 24	From	То	Type	Returns	Borehole termi		at .
							23	_ 					proposed depth	. Hole	
													completed with hat cover	raisec	т юр
	imensio		etres	Client	Pinho	oe Quarr	y LLP	Metl	nod/ t Used	Carr	achie 205		Logged By	٦	
00h/	Scale 1:	156.25						Fian	ı Oscu	Coma	cchio 205		APO		

EXEL		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
BSW	Date	Time	Depth	Casing	Core Dia	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
SBGE ROTARY BOREHOLE LOG N:\C						25	24					Borehole terminated at proposed depth. Hole completed with raised top hat cover
آ ۾	4 11 11		and/		Loggad Dy							



]	ROT	CARY BOI	REF	HOLE LO	\mathbf{G}			
Project												ROTARY BO	OREHO	OLE N
	Pinhol	e Clay	y Pit									NAV	N 7	
Job No			I	Date			Grou	nd Level (m)		Co-Ordinates	0	IVI	/ V /	
	VE002	298		03-	12-09			78.41						
Contra												Sheet		
	Assoc	iated I	Orilli	ing Serv	ices							2 0	f 2	
	RUN :	DET <i>A</i>	AILS						S	TRATA				Instrument/
Deptl	TCR	(SCR)	₽∩г	(SPT) FI	Legend	Dept	h			DESCF	RIPTION		Geology	
	Tek	(BCIV)	KQL	FI	Legene	ness)	Dis	scontinuities		Detail	Main		Gec	Inst
						45.C					End of hole at 45mbgl.	STONE with		

EXETE		Drilling	Progres		iter Obse	rvations			Rotary	Flush		GENERAL
CBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	nter Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\(Borehole terminated at proposed depth. Hole completed with raised top hat cover
Log *08B(All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP						thod/ nt Used	Comacc	hio 205		Logged By APC	



Project						N	OTAK	1 DOR	EHUL	E LU	G		ROTARY BO	REHO	OLE No
_	Pinhol	e Clay	/ Pit												JEE IVO
Job No				ate			Ground Le	vel (m)	Co-C	rdinates	()		RC	1 A	
N W	/E002	98		18-	12-09		47	7.71							
Contrac	tor								'				Sheet		
A	Associ	ated I	Orillir	g Serv	ices								1 o	f 1	
F	RUN I	DET <i>A</i>	ILS						STRA					y	Instrument/ Backfill
Depth	TCR	(SCR)	ROD	(SPT) FI	Legend (Depth Thick-]		RIPTION			Geology	trum ckfill
	TON	(BCIt)	RQD	FI	n	iess)	Disconti	nuities		Detail		Main		Ge	Insi Bao
					-						Weak grey to some sandst	orown MUL one bands.	STONE with		
						(1.00)									
						1.00									
					-						End of hole	at 1.0mbgl.			
					-										
					-										
					-										
					-										
Drilling Progress and Water Observations Rotary Flush GENERAL															
Date		me	Depth			re Dia	Vations Wa	ter Standing	From	To	ary Flush Type	Returns	GENE REMA		
18-11-09) 15.	.00	0.00			11111	Suike	Statiuling			J F -		Borehole termi	nated	at
18-11-09	16	.00	1.00										proposed depth completed with	n. Hole n raise	d top
													hat cover		1
								T					[
All din	nension cale 1:	is in me 31.25	etres	Client	Pinhoe	Quar	ry LLP	Met Plan	hod/ it Used	Coma	acchio 205		Logged By AP	С	



Project ROTARY BOREHOLE N													DLE No	
I	Pinhol	e Clay	/ Pit									DC.	2A	
Job No			D	ate		Ground Le		Co-Oı	rdinates	()		- KC	ZA	
	/E002	98		19-	-11-09	4.	1.46							
Contrac												Sheet		
				g Serv	ices							1 o	f 1	
I	RUN I	DETA	ILS					STRA					Ş	Instrument/ Backfill
Depth	TCR	(SCR)	ROD	(SPT) FI	De Legend (Thic	k-				RIPTION			Geology	trun
				FI	ness)	Disconti	nuities		Detail	Wash areas h	Main	OSTONE with	Ge	Ins
										some sandst	one bands.	STONE WILL		
					(1.0))								
					1	00				End of hole	at 1 0mbgl			
										2nd of note	at Tromogn			
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	D	11. 1			1 1 1 01			T	D 4	FI 1				
Date		Iling I	Progro Depth		Water Ob	servations a Wa	ter Standing	From	To	ary Flush Type	Returns	GENE REMA		
19-11-09		.00	0.00	Cas	mm mm	Strike	Standing	110111	10	Турс	Retuills	Borehole termi		
19-11-09	9 14	.30	1.00									proposed depth completed with	ı. Hole	;
												hat cover	1 1 4150	a wp
All din	All dimensions in metres Scale 1:31.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 APC													



Logged By
APC

						I	ROTAF	RY BOR	REHOL	E LO	G				
Project													ROTARY BO	OREHO)LE N
	Pinhol	le Cla											_ RC	3A	
Job No			D	ate			Ground L		Co-Oı	rdinates	()		1,0		
	VE002	298		23-	-11-09)	4	5.86							
Contra													Sheet		
,	Assoc	iated l	Drillin	g Serv	rices								1 c	of 1	
]	RUN	DETA	AILS			_	_		STRA	ГА				A	Instrument/ Backfill
Depth	TCR	(SCR)	RQD	(SPT) FI	Legen	Depti d(Thick-			Г	DESCR	IPTION			Geology	trum
	1011	(DOT)	, nqb	FI	Zegen.	ness)	Discont	inuities		Detail		Main		Ge	Ins
						}					Weak grey some sands	brown MUI tone bands.	OSTONE with		
						‡									
						(1.00)									
						1.00)									
						1									
						1.0	0								
						-				•	End of hole	at 1.0mbgl.			
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	Dri	lling	Progre	ess and	l Wat	er Obse	rvations			Rota	ary Flush		GENE	RAL	
Date		me	Depth		sing	Core Dia mm	Strike	ater Standing	From	То	Type	Returns	REMA		
23-11-0	9 11	.30	0.00				Zuno						Borehole term	inated a	at
23-11-0	12	.30	1.00										proposed depti completed wit	h. Hole h raisec	d top
													hat cover		- г

Method/ Plant Used

Comacchio 205

All dimensions in metres Scale 1:31.25

08b/08

Client

Pinhoe Quarry LLP



Project				ROTARY BOREHOLE No									
Pinhole Clay P	it			VWP1									
Job No	VVVFI												
WE00298	30-11-09	87.34											
Contractor	Sheet												
Associated Dri	Contractor Associated Drilling Services												

2 1000)Clated		5 501 1	1005					10	1 2	
RUI	N DETA	AILS					STRATA				ent/
Denth			(SPT)		Depth		DESCR	RIPTION		ogy	H H
TC	R (SCR	RQD	FI	Legend	(Thick-	Discontinuities				jeo]	nstr 3acl
Depth TC	R (SCR	RQD	(SPT) FI	Legend	Depth (Thick-ness) 1.00 2.00 1.10 1.00 1.00 1.00 1.00	Discontinuities	DESCR	RIPTION Main Firm red brown slightly gravelly CLAY. Gravel mudstone and sandstone Extremely weak grey br MUDSTONE with occa sandstone bands. Very weak grey brown with some sandstone bands.	is of fragments. own sional MUDSTONE ads.	Geology	Instrument/
]	
	rilling	Progre	ess and	Wate	r Obser	vations	Rota	ary Flush	GENE	RAI.	
		0			oro Dio	Water	H		31111		

EXETE		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG N:\CBSW EXETE	13-11-09 13-11-09	13.00 14.30	0.00 16.50			16.5	14.25					Borehole terminated at proposed depth. Hole completed with raised top hat cover
8B		naiona in r		Logged Ry								

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 APC



						F	ROTARY BOR	EHOLE LO	G			
Project										ROTARY BO	REHO	OLE No
I	Pinhol	e Clay	/ Pit							VW	D4	
Job No			Г	Date			Ground Level (m)	Co-Ordinates	()		/P I	
W	/E002	.98		30-	-11-09		87.34					
Contractor Sheet												
Associated Drilling Services 2 of 2												
RUN DETAILS STRATA												ent/
Depth						Deptl (Thick-	h	DESCF	RIPTION		Geology	Instrument/ Backfill
	ICK	(SCK)	KQD 	FI	Legeno	ness)	Discontinuities	Detail	Main		Gec	
						(23.50))	TONE with ntinued)				
			l			1						

VVICB DATAIGINTIVIE00298.GPJ CLARKE BOND.GDT 12/02/2010 15:51:17			(23	50)	some sandstone bands.(continued)	
OFFICEIPROJECTS/WE00298 - PINHOE CLAY PITS/PRODUCTION/DATA - GEO ENV/CB DATA/GINT/WE00298.GPJ CLARKE BOND.GDT 12/02/2010 15:51:17			4(0.00	End of hole at 40mbgl.	

2												
EXETE		Drilling	Progres	s and Wa	ater Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
CBGE ROTARY BOREHOLE LOG NICBSW EXETE	13-11-09	16.30	40.00									Borehole terminated at proposed depth. Hole completed with raised top hat cover
*08B	All dime	nsions in r	netres C	lient Pin			Logged By					

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/ Plant Used Comacchio 205 Logged By APC



Project				ROTARY BOREHOLE No
Pinhole Clay P	it			VWP2
Job No	VVVPZ			
WE00298	04-12-09	91.39		
Contractor	Sheet			
Associated Dri	lling Services			1 of 2

Depth TCR (SCR) RQD (SPT) Legend (Thick-ness) Total Color Color	(18.00) 1.50 2.00 2.00 gravelly CLAY, Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.													
gravelly CLAY. Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	(18.00) 1.50 2.00 2.00 gravelly CLAY, Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	RI	UN I	DETA	ILS					STRATA			>	lent,
gravelly CLAY. Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	(18.00) 1.50 2.00 2.00 gravelly CLAY, Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	Depth -	тср	(SCP)	DOD	(SPT)	Lagand	Depth		DESCR	RIPTION		olog	Tur.
gravelly CLAY. Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	(18.00) 1.50 2.00 2.00 gravelly CLAY, Gravel is of mudstone and sandstone fragments. Extremely weak grey brown MUDSTONE with occasional sandstone bands. Very weak grey brown MUDSTONE with some sandstone bands.	1	ICK	(SCR)	цур	FI	Legend	ness)	Discontinuities	Detail	Main		Gec	Inst
		Depth 7	TCR	(SCR)	RQD			(Thick-ness) (1.50) 1.50 2.00 (18.00)			Main Firm red brown slightly gravelly CLAY. Gravel mudstone and sandstone Extremely weak grey br MUDSTONE with occas andstone bands. Very weak grey brown with some sandstone ba	is of e fragments. own sional MUDSTONE nds.	Geolog	Instrum
	· · · · · · · · · · · · · · · · · · ·													

EXETE		Drilling	Progres	s and Wa	ter Obse	rvations			Rotary	Flush		GENERAL
SBSW	Date	Time	Depth	Casing	Core Dia mm	Wa Strike	ater Standing	From	То	Type	Returns	REMARKS
ž	04-12-09 04-12-09	08.00 13.00	20.00			20	14.25					Borehole terminated at proposed depth. Hole completed with raised top hat cover
8B	All dima	ncione in r	netres Cl	ient Pin	hoe Ouar	rvIIP	Met	hod/				Logged By

All dimensions in metres Scale 1:156.25 Client Pinhoe Quarry LLP Method/Plant Used Comacchio 205 Logged By APC



Logged By
APC

]	ROTAR	RY BOR	EHOL	E LO	\mathbf{G}				
Project														OREHO	OLE N
Pinhole Clay Pit													VWP2		
Job No Date					Ground Level (m)		Co-Ordinates		()		VVVPZ				
					-12-0	9	9	1.39							
Contrac		D.::11:								Sheet 2 of 2					
Associated Drilling Services												2 of 2			
RUN DETAIL			AILS	1		Domt	STRATA DESCRIPTION							Ş	ment ill
Depth	TCR	(SCR)	RQD	(SPT) FI	Lege	Dept nd (Thick-	Discontinuities Detail				Main			Geology	Instrument/
						ness)	Discont	inuities	Detail		Weak grey brown MUDSTONE with			+5	LI M
											some sandstone bands.(continued)				(- <u></u> H.)
						<u> </u>									
						#									
						1									
															
						(20.00	0)								
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						40.0	00				End of hole	at 40mbal			
											End of noie	at 40mbgi.			
						E									
Drilling Progress and Water Observations								Rotary Flush			GENE	GENERAL			
Date Ti		Γime Depth				Core Dia mm	Strike Wa	ter Standing	From	То	Type Returns		REMARKS		
Drilling Date Time O4-12-09 16.00		40.00										Borehole terminal proposed depth. F completed with ra hat cover		Hole	

Method/ Plant Used

Comacchio 205

Pinhoe Quarry LLP

08b/08

All dimensions in metres Scale 1:156.25