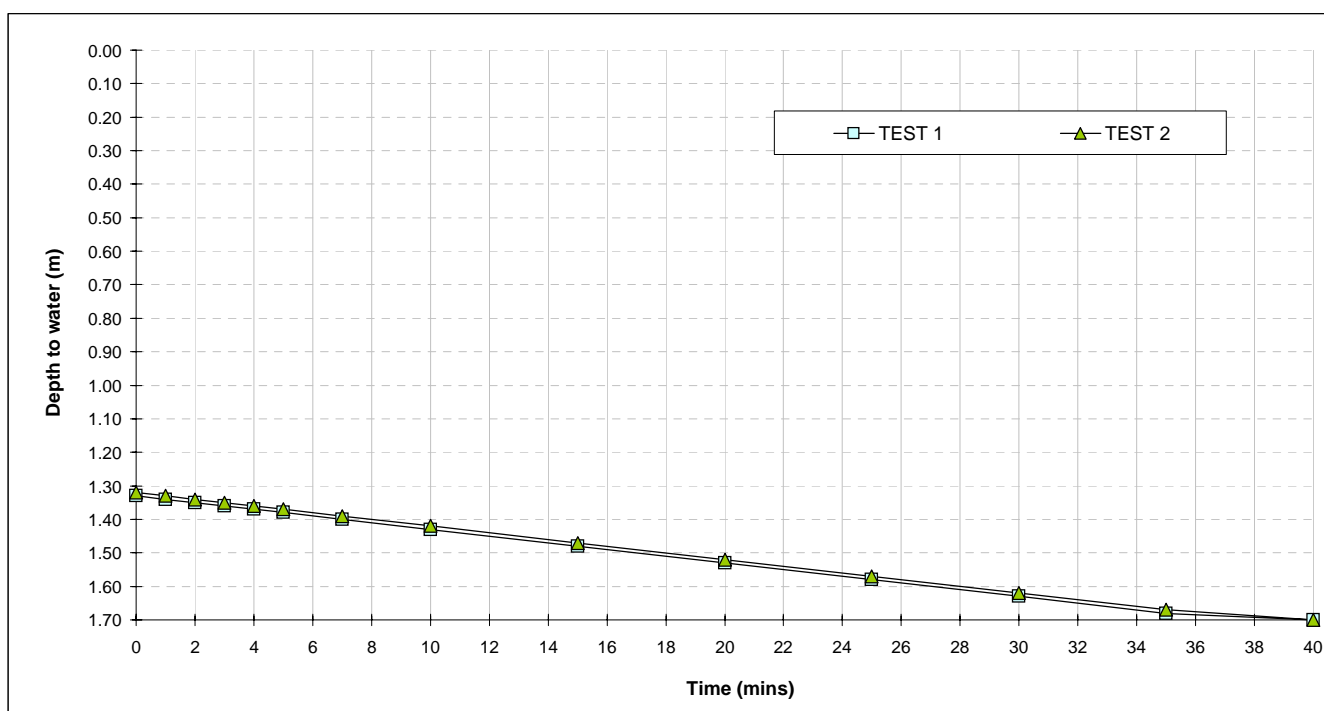


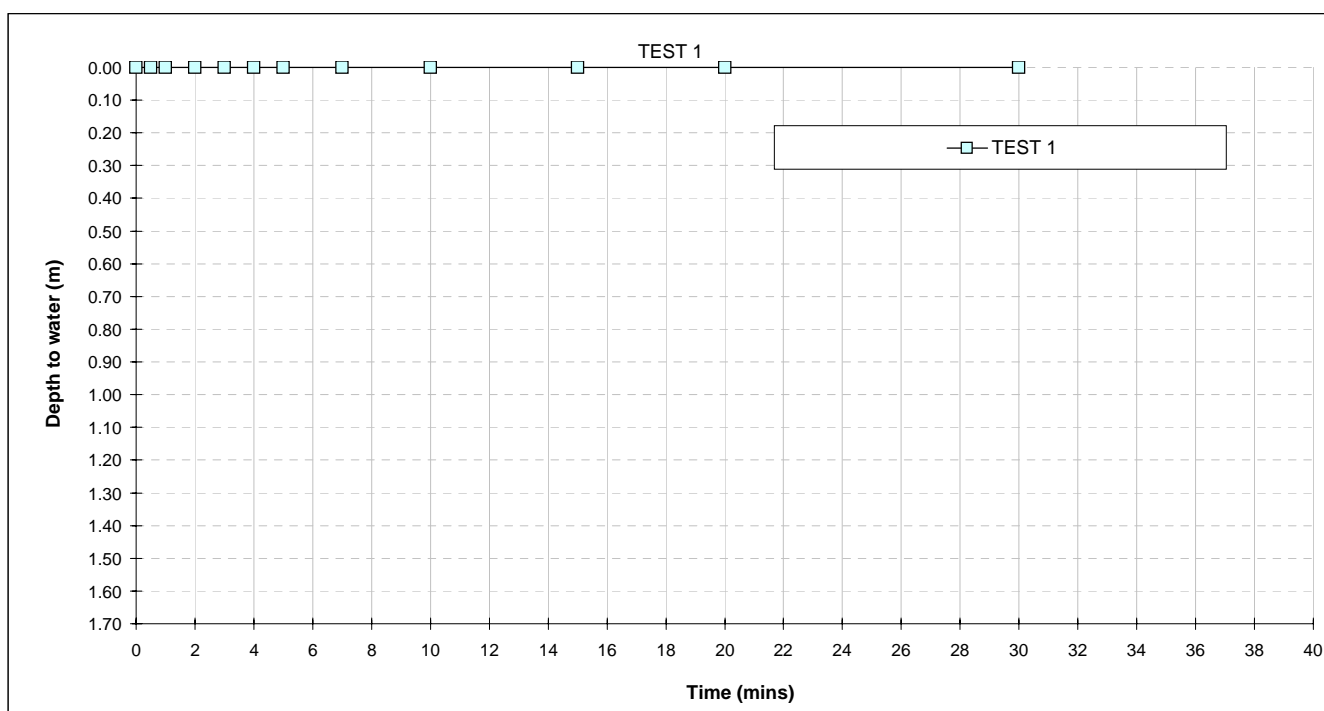
C.J. ASSOCIATES GEOTECHNICAL LTD.		Site..... Bodicote		Trial Pit Number..... 4		
SOIL INFILTRATION RATE TEST		Job Number..... Y0204		Length..... 2.00 m		
See B.R.E. Digest 365, 1991, Soakaway Design.		Date of Test..... 23/03/2010		Width..... 0.70 m		
				Depth..... 1.70 m		
				Groundwater Level..... Dry		
Remarks -	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.0	1.33	0.0	1.32		
	1.0	1.34	1.0	1.33		
	2.0	1.35	2.0	1.34		
	3.0	1.36	3.0	1.35		
	4.0	1.37	4.0	1.36		
	5.0	1.38	5.0	1.37		
	7.0	1.40	7.0	1.39		
	10.0	1.43	10.0	1.42		
	15	1.48	15	1.47		
	20	1.53	20	1.52		
	25	1.58	25	1.57		
	30	1.63	30	1.62		
	35	1.68	35	1.67		
	40	1.70	40	1.70		
	Effective Storage Depth	m	0.37	0.38		
	75% Effective Storage Depth	m	0.28	0.29		
	(i.e. depth below GL)	m	1.42	1.42		
	25% Effective Storage Depth	m	0.09	0.10		
(i.e. depth below GL)	m	1.61	1.61			
Effective Storage Depth 75%-25%	m	0.19	0.19			
Time to fall to 75% effective depth	mins	9.00	10.00			
Time to fall to 25% effective depth	mins	26.00	29.00			
V (75%-25%)	m3	0.26	0.27			
a (50%)	m2	2.40	2.43			
t (75%-25%)	mins	17.00	19.00			
SOIL INFILTRATION RATE	m/s	1.06E-04	9.62E-05			

DESIGN SOIL INFILTRATION RATE, f	9.62E-05
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C.J. ASSOCIATES GEOTECHNICAL LTD. SOIL INFILTRATION RATE TEST See B.R.E. Digest 365, 1991, Soakaway Design.		Site..... Bodicote Job Number..... Y0204 Date of Test..... 23/03/2010		Trial Pit Number..... 5 Length..... 2.00 m Width..... 0.70 m Depth..... 1.20 m Groundwater Level..... Dry	
Remarks:- Emptied 250 Gallon bowser into pit. Strata was highly permeable and water was soaking away quicker than it could be filled.	TEST 1 Time(min) Depth to Water (m)		TEST 2 Time(min) Depth to Water (m)		TEST 3 Time(min) Depth to Water (m)
	0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 10.0 15 20 30 45 60 90 120 180				
Effective Storage Depth m 75% Effective Storage Depth m (i.e. depth below GL) m 25% Effective Storage Depth m (i.e. depth below GL) m Effective Storage Depth 75%-25% m Time to fall to 75% effective depth mins Time to fall to 25% effective depth mins V (75%-25%) m3 a (50%) m2 t (75%-25%) mins					
SOIL INFILTRATION RATE m/s	Highly Permeable				


DESIGN SOIL INFILTRATION RATE, f Highly Permeable

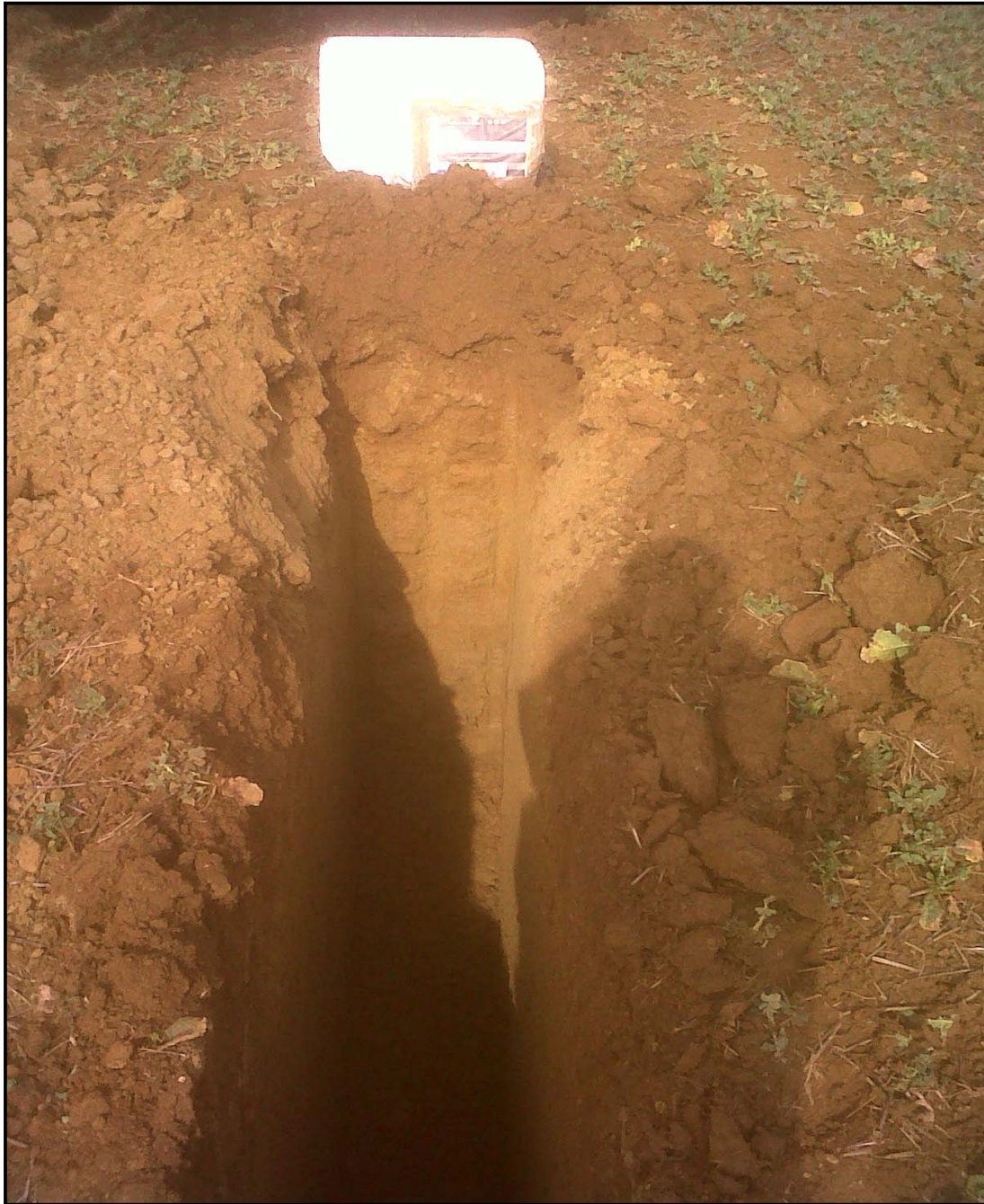




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	Bodicote	Trial Pit Photographs	
	RPS	Project No.	
		Y0204	TP1




	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	TP1
		Y0204	



cjassociates	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	
		Y0204	TP2



	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	TP2
		Y0204	



cjassociates

Project

Bodicote

Drawing Title

Trial Pit Photographs

RPS

Project No.

Y0204

TP2A



cjassociates

Project

Bodicote

Drawing Title

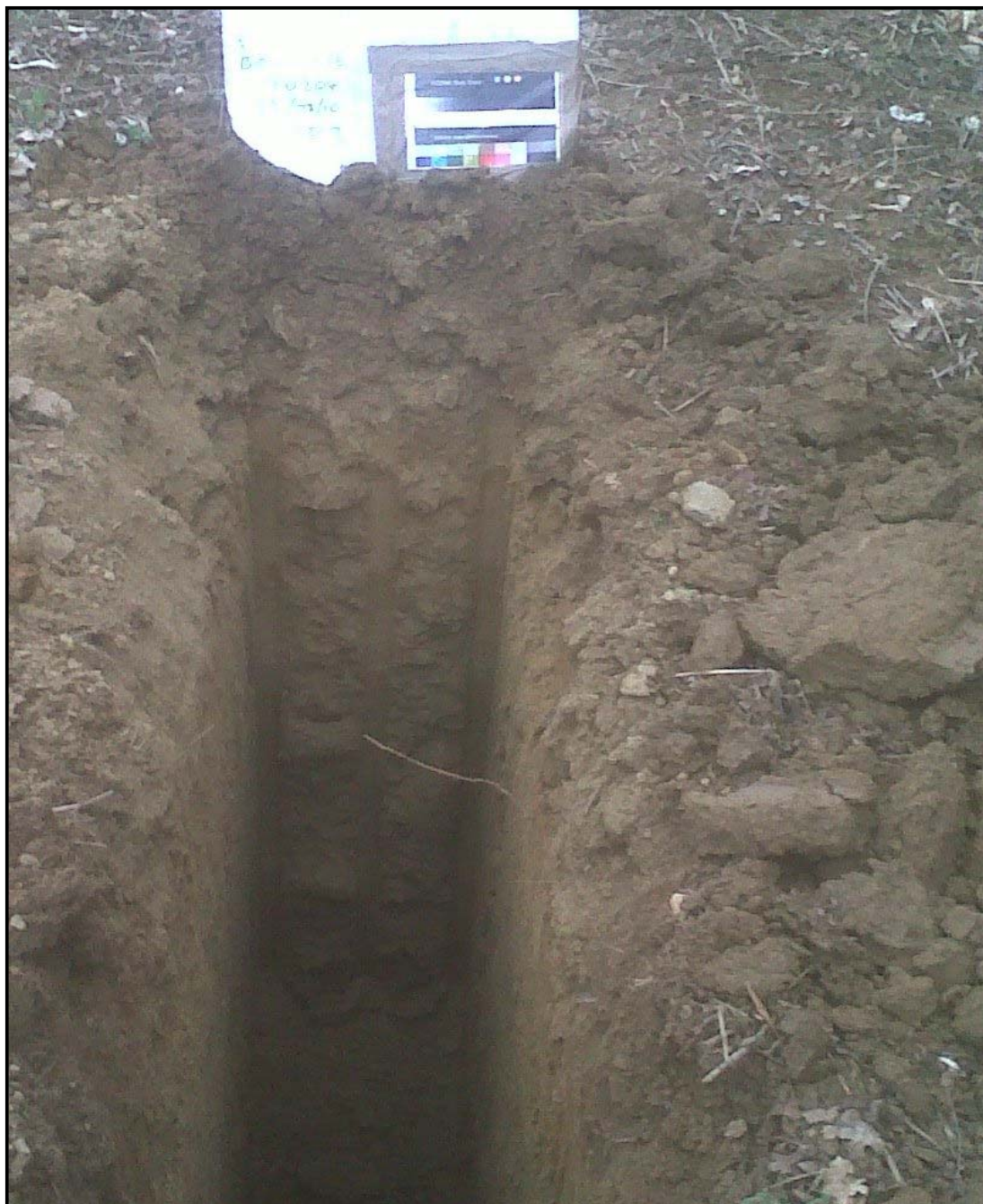
Trial Pit Photographs

RPS

Project No.


Y0204

TP2A



cjassociates	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	TP3
		Y0204	




	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	
		Y0204	TP3



cjassociates	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	TP4
		Y0204	



	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	
		Y0204	TP4



cjassociates	Project	Drawing Title	
	Bodicote	Trial Pit Photographs	
	RPS	Project No.	
		Y0204	TP5



cjassociates

Project	Drawing Title		
Bodicote	Trial Pit Photographs		
RPS	Project No.	Y0204	TP5

Trial Pit Log Sheet

TP No 1

CJA

Site: **Bodicote**

Job Number: **Y0204**

Client: **RPS**

Machine Type: **JCB 3CX**

Sheet 1 of 1

Date: 23/03/2010

Vertical Scale 1:25

C J Associates

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00	B1	0.00-0.30			(0.30)		TOPSOIL: Soft light brown CLAY, with occasional roots.	
	B2	0.30-0.70		0.30			Firm light orange-brown SILT/CLAY.	
-0.50					(0.40)		Firm light grey and light orange SILT/CLAY.	
	B3	0.70-2.20		0.70			Firm to stiff orange-brown very gravelly CLAY, with occasional subangular cobbles of siltstone and sandstone. Gravel is subangular to subrounded fine to coarse of siltstone and sandstone.	
-1.00					(1.50)			
-1.50								
-2.00								
	B4	2.20-2.50		2.20				
-2.50				2.50	(0.30)			
-3.00							END OF TRIAL PIT	
-3.50								
-4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

Co-ordinates:

Trial Pit Width (m) 0.70

Trial Pit Length (m) 2.50

Trial Pit Side Stability: All Sides Stable

Logged By: IC

Checked By:

Groundwater Observations: Slight to moderate seepage at 2.2m, water rose to 1.7m after 5.5hrs.

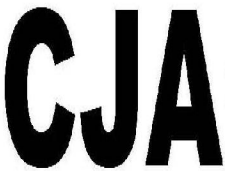
Direction of Face A (degrees from N): -

Excavator A B C

General Remarks:

Trial Pit Log Sheet

TP No 2



Site: Bodicote
Job Number: Y0204
Client: RPS
Machine Type: JCB 3CX

Sheet 1 of 1
Date: 23/03/2010
Vertical Scale 1:25

C J Associates

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00	B1	0.30-2.00		0.40	(0.40)		TOPSOIL: Soft light brown CLAY, with occasional roots.	
0.50							Firm to stiff light yellow-grey SILT/CLAY.	
1.00					(1.20)			
1.50				1.60			Stiff to very stiff light grey and light orange SILT/CLAY.	
2.00	B2	2.00-2.20			(0.60)			
2.20				2.20			END OF TRIAL PIT	
2.50								
3.00								
3.50								
4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

Co-ordinates:	Trial Pit Width (m) 0.70	Trial Pit Length (m) 2.50
Trial Pit Side Stability : All Sides Stable	Logged By : IC	Checked By :
Groundwater Observations: Dry	Direction of Face A (degrees from N): - <div>Excavator D A B C</div>	
General Remarks :		

Trial Pit Log Sheet

TP No 2A



Site: Bodicote
Job Number: Y0204
Client: RPS
Machine Type: JCB 3CX

Sheet 1 of 1
Date: 23/03/2010
Vertical Scale 1:25

C J Associates

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00								
	B1	0.40-1.60		0.40	(0.40)		MADE GROUND: Soft light brown slightly gravelly CLAY, with occasional roots and occasional glass fragments. Gravel is subangular to subrounded fine to coarse of brick, siltstone and sandstone.	
-0.50							Soft to firm light brown gravelly SILT/CLAY.	
-1.00					(1.20)			
-1.50	B2	1.60-2.40		1.60				
-2.00					(0.80)		Firm to stiff light grey and light orange slightly gravelly SILT/CLAY. Gravel is subangular to subrounded fine to coarse of siltstone and sandstone.	
-2.50				2.40			END OF TRIAL PIT	
-3.00								
-3.50								
-4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

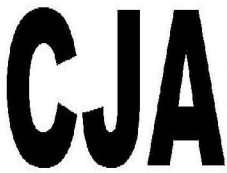
Co-ordinates:	Trial Pit Width (m) 0.70	Trial Pit Length (m) 2.50
Trial Pit Side Stability: All Sides Stable	Logged By: IC	Checked By:
Groundwater Observations: Dry	Direction of Face A (degrees from N): - Excavator D A B C	
General Remarks:		

Trial Pit Log Sheet

Site: **Bodicote**
Job Number: **Y0204**
Client: **RPS**
Machine Type: **JCB 3CX**

TP No **3**

Sheet 1 of 1
Date: 23/03/2010



Vertical Scale 1:25 **C J Associates**

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00								
	B1	0.30-0.70		0.30	(0.30)		TOPSOIL: Soft light brown CLAY, with occasional roots.	
-0.50					(0.40)		Soft to firm light yellow-grey SILT.	
	B2	0.70-2.20		0.70			Firm to stiff light grey and light orange SILT/CLAY.	
-1.00					(1.50)			
-1.50								
-2.00								
	B3	2.20-2.50		2.20			Firm to stiff orange-brown very gravelly CLAY, with occasional subangular cobbles of siltstone and sandstone. Gravel is subangular to subrounded fine to coarse of siltstone.	
-2.50				2.50	(0.30)		END OF TRIAL PIT	
-3.00								
-3.50								
-4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

Co-ordinates:	Trial Pit Width (m) 0.70	Trial Pit Length (m) 2.50
Trial Pit Side Stability: All Sides Stable	Logged By: IC	Checked By:
Groundwater Observations: Dry	Direction of Face A (degrees from N): -	
General Remarks:		

Trial Pit Log Sheet

Site: **Bodicote**
Job Number: **Y0204**
Client: **RPS**
Machine Type: **JCB 3CX**

TP No **4**

Sheet 1 of 1

Date: 23/03/2010

Vertical Scale 1:25



C J Associates

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00								
	B1	0.30-0.50		0.30	(0.30)		TOPSOIL: Soft light brown CLAY, with occasional roots.	
0.50	B2	0.50-1.70		0.50	(0.20)		Firm brown slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of siltstone and sandstone.	
					(1.20)		Light brown clayey gravelly angular to subangular COBBLES of siltstone and sandstone.	
1.00								
1.50				1.70			END OF TRIAL PIT	
2.00								
2.50								
3.00								
3.50								
4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

Co-ordinates:	Trial Pit Width (m) 0.70	Trial Pit Length (m) 2.50
Trial Pit Side Stability: All Sides Stable	Logged By: IC	Checked By:
Groundwater Observations: Dry	Direction of Face A (degrees from N): -	
General Remarks:		

Trial Pit Log Sheet

Site: Bodicote
Job Number: Y0204
Client: RPS
Machine Type: JCB 3CX

TP No 5

Sheet 1 of 1
Date: 23/03/2010



Vertical Scale 1:25 C J Associates

Depth (m)	Sample Ref.	Test / Sample Depth (m)	Test Results	Depth (m)	Thickness (m)	Legend	Description of Strata	Reduced Level (m. O.D.)
0.00							TOPSOIL: Soft light brown CLAY, with occasional roots.	
	B1	0.30-1.00		0.30	(0.30)			
-0.50					(0.70)		Light brown clayey gravelly angular to subangular COBBLES of siltstone and sandstone.	
-1.00	B2	1.00-1.20		1.00	(0.20)		Firm to stiff light blue-grey CLAY	
				1.20			END OF TRIAL PIT	
-1.50								
-2.00								
-2.50								
-3.00								
-3.50								
-4.00								

Sample Types: D = Small disturbed sample; B = Bulk disturbed sample; J = Small disturbed sample (glass jar); T = Small disturbed sample (plastic tub); W = Water sample.

Co-ordinates:	Trial Pit Width (m) 0.70	Trial Pit Length (m) 2.50
Trial Pit Side Stability : All Sides Stable	Logged By : IC	Checked By :
Groundwater Observations: Dry	Direction of Face A (degrees from N): - <div>Excavator</div> <div>A</div> <div>B</div> <div>C</div>	
General Remarks : TP terminated as clay strata encountered in A, C and D-sides, but still cobbles in B-side of pit at 1.2m.		