



Photograph 19 – WBH114 Inspection pit



Photograph 20 – WBH115 Inspection pit







Photograph 21 – WBH116 Inspection pit





APPENDIX 3 - Exploratory Hole Logs

R									Borehole N	lo.
	G					Bo	reho	ole Log	WBH10)1
GRO	OUNDTE	CH					. •	3.0 _09	Sheet 1 of	4
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546597.85 - 258929.66	Hole Type CP	9
Locati	on:	CAMBRID	GE				Level:	11.42	Scale 1:50	
Client:		RPMI RAII	LPEN				Dates:	15/11/2022 - 16/11/2022	Logged B	У
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	ı	
	Strikes	0.20 0.20 - 0.40 0.40 - 0.80 0.60 0.90 1.30 1.50 1.50 - 1.95 2.00 - 2.50 2.50 - 2.95 3.00 3.00 - 3.50 3.50 3.50 - 3.95 4.00 - 4.50 4.50 - 4.95 5.00	Type ESBBES ESC ESC DB ES	Results N=6 (1,2/2,1,1,2) N=9 (1,2/2,3,2,2)		(m) 11.30 10.67 10.02		MADE GROUND: Black tarmac. MADE GROUND: Firm brown sand clay. Gravel is angular to subangular coarse of mixed lithologies including limestone and chert. Sand is fine to MADE GROUND: Structureless char of firm light brown cream sandy gra Gravel is angular to subangular fine mixed lithologies including weak low chalk, occasional brick and occasio (Reworked). Structureless CHALK composed of cream mottled yellowish brown silty with moderate cobble content. Clas low density subangular to subround Dm). Occasional flint gravel present between 1.5 bgl. High strength at 2.5m bgl	y gravelly or fine to g chalk, brick, coarse. alk composed velly clay. It to coarse of v density nal slate. firm white gravelly clay ts are weak ed. (Grade	2 3 4 5
		5.50 5.50 - 6.00 6.00 6.00 - 6.45 6.50 - 7.00 7.50 7.50 - 7.95 8.00 8.00 8.50 - 9.00 9.00 9.00 - 9.45 9.50 - 10.00	ES B ES D D D B D B	N=13 (2,3/3,4,3,3 N=16 (3,4/4,3,4,5		5.52		Stiff dark grey silty laminated CLAY. High strength at 7.5m bgl. Becomes very stiff from 8.0m bgl.		7 - 8 - 9
Rema		10.00	ES				×x^	Continued on next sheet		10 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 6m: 2m plain, 4m slotted.



	G					ole Log	Borehole No. WBH101			
GRO	DUNDTE CONSULTING	CH						JIO LOG	Sheet 2 of 4	
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546597.85 - 258929.66	Hole Type CP	
Locati	on:	CAMBRID	GE				Level:	11.42	Scale 1:50	
Client:	:	RPMI RAIL	PEN				Dates:	15/11/2022 - 16/11/2022	Logged By JKP	
Well	Water Strikes			n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Туре	Results	()	()			_	
		10.50 - 10.95	U				× × ×			
		11.00	D				× × ×		11	
		11.50 - 12.00	В				××			
		12.00 12.00 - 12.45	D	N=27 (4,4/6,7,7,7)			x_x_x		12	
		12.50 - 13.00	В				xx		13	
		13.50 - 13.95	U				×			
		14.00 14.00 - 14.50	D B				XXXXXXXXX		14	
		15.00 15.00 15.00 - 15.45	ES D	N=34 (4,5/7,9,8,10)		X X X		15	
		15.50 - 16.00 16.00	B D				× × × × × × × × × × × × × × × × × × ×		16	
		16.50 - 16.95	U				×	Becoming very high strength at 16.5m bgl.		
		17.00	D				××		17	
		17.50 - 18.00	В				×			
		18.00 18.00 - 18.45	D	N=35 (4,5/8,8,9,10)		XX_X		18 -	
		18.50 - 19.00	В				×		10	
		19.50 - 19.95	U				× × ×		19 _	
Rema		20.00	D				××	Continued on next sheet	20	

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 6m: 2m plain, 4m slotted.



G								Borehole No.	
650		CU				Bo	reho	ole Log	WBH101
GRO	OUNDTE CONSULTING	CH					·	3	Sheet 3 of 4
Projec	t Name	: PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546597.85 - 258929.66	Hole Type CP
Locati	on:	CAMBRID	GE	1			Level:	11.42	Scale 1:50
Client	:	RPMI RAII	LPEN				Dates:	15/11/2022 - 16/11/2022	Logged By JKP
Well	Water		and	In Situ Testing	Depth	Level	Legend	Stratum Description	
VVOII	Strikes	Depair (iii)	Туре	Results	(m)	(m)	Logona	Citatam Boodipaoi	'
		20.00	ES				××		
		20.50 - 21.00	В				×_×_×		
							<u>×</u> _ <u>×</u>		
		21.00 21.00 - 21.45	D	N=37 (5,5/7,9,11,10	0)		×-×-×		21 —
		21.50 - 22.00	В				× × ×		
			_				××		
							×_×		22 _
							×-×-×		
		22.50 - 22.95	U				×		
		23.00	D				×_×_×		23 —
		25.00					×_×_×		23
		23.50 - 24.00	В				×_×_×		=
							× × ×]
		24.00		N=43 (6,6/10,10,11,12)			××		24 📑
		24.00 - 24.45	D	(0,0,10,10,11,12)			×_×_×		
		24.50 - 25.00	В				×_×		
		25.00	ES				×		25 —
							× × ×		
		25.50 25.50 - 25.95	D U				×_×_×		
							××		
		26.00	D				×_×_×		26 —
		26.50 - 27.00	В				×		
			_				×_×_×		
		27.00		N=45			× × ×		27 _
		27.00 - 27.45	D	(6,8/10,11,12,12)			×_×_×		
		27.50 - 28.00	В				×		
							× × ×		20 -
							×		28 —
		28.50 - 28.95	U				×	Becoming very high strength at 28.5m	
							×_×_×		
		29.00	D				× × ×		29 —
		00.50.00.00					×_×_×		
		29.50 - 30.00	В				<u>×</u> <u>×</u> _×		
		30.00	ES		30.00	-18.58	<u>×_×</u> _×	Continued on most to the	30
Rema	rks			I .		l		Continued on next sheet	

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 6m: 2m plain, 4m slotted.



GRO	OUNDTE CONSULTING	СН				Во	reho	ole Log	Borehole No. WBH101 Sheet 4 of 4	
Projec	ct Name:	PROJECT	OTTE	R	Project No. GRO-22165		Co-ords:	546597.85 - 258929.66	Hole Type CP	
Locati	ion:	CAMBRID	GE				Level:	11.42	Scale 1:50	
Client	:	RPMI RAII	LPEN				Dates:	15/11/2022 - 16/11/2022	Logged By JKP	
Well	Water Strikes		Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Descriptio	n	
		30.00	71	N=47 (7,6/10,11,13,13	\			End of borehole at 30.00	m	
		30.00 - 30.45	D	(7,6/10,11,13,13					-	
									31 -	
									-	
									32 -	
									33 -	
									34 —	
									-	
									35 —	
									-	
									36 -	
									37	
									38 -	
									-	
									39 -	
									40 —	
Rema	rke								40	

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 6m: 2m plain, 4m slotted.



							Borehole N	О.	
CDOUNE) TECH				Во	reho	ole Log	WBH10	2
GROUNE CONSULT	TING						3 - 3	Sheet 1 of	4
Project Naı	me: PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546659.86 - 258941.90	Hole Type CP	•
Location:	CAMBRID	GE				Level:	10.43	Scale 1:50	
Client:	RPMI RAII	LPEN				Dates:	22/11/2022 - 23/11/2022	Logged By JKP	у
Well Wat		s and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
Strik	Depth (m)	Туре	Results	(m)	(m)	Legend	-	1	
	0.20 0.20 - 0.40 0.40 - 0.80 0.50 0.80 - 1.20 1.00 1.30 1.50 1.50 - 1.95 1.50 - 2.00 2.50 - 2.95 3.00 3.00 - 3.50 3.50 3.50 3.50 3.50 3.50 3.50 4.00 4.00 - 4.50 4.50 - 4.95 5.00	ES B B S ES D B U D B ES D S B ES U D B	N=9 (1,1/1,2,3,3) N=10 (2,2/3,2,3,2		10.33 10.03 9.23 9.03		MADE GROUND: Black tarmac. MADE GROUND: Dark brown grey medium to coarse sand. Gravel is a subangular fine to coarse of mixed including limestone. MADE GROUND: Dark brown clays angular to subangular fine to coarse mixed lithologies including chert, co slag with high cobble content of cor and plastic. Sand is medium to coal MADE GROUND: Structureless characteristic of firm light brown cream gravelly clay weak low density angular to subrou (Reworked). Structureless CHALK composed of brown cream gravelly clay. Clasts a density angular to subrounded. (Gradensity angular to subrounded. (Gradensity angular to subrounded.)	ey sandy e gravel of increte and increte, brick rse. alk composed ay. Clasts are inded. firm light re weak low ade Dm).	1 2 3 4 5 5
	6.00 6.00 - 6.45 6.50 - 7.00 7.50 - 7.95	D B	N=12 (2,3/2,3,3,4			X			7 —
	8.00 8.50 - 9.00	D B				X X X X X X X X X X X X X X X X X X X			8 -
Domorko	9.00 9.00 - 9.45 9.50 9.50 - 10.00	D ES B	N=13 (2,3/3,3,4,3)		x x x x x x x x x x _ x x _ x	Continued on next sheet		9 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit to 1.30m bgl. 3. Groundwater seepage encountered at 2.5m bgl. 4. Standpipe installed to 4m; 1m plain, 3m slotted.



GROUNDTECH CONSULTING Project Name: PROJECT OTTER						Во	reho	ole Log	WBH10 Sheet 2 of	2
Projec	t Name:	PROJECT	OTTE		Project No. SRO-22165		Co-ords:	546659.86 - 258941.90	Hole Type CP	
Locati	on:	CAMBRID	GE				Level:	10.43	Scale 1:50	
Client:		RPMI RAIL	PEN				Dates:	22/11/2022 - 23/11/2022	Logged By JKP	/
Well	Water Strikes			n Situ Testing	Depth	Level (m)	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(111)	×_~_×			_
		10.50 - 10.95	U				× × ×	High strength at 10.5m bgl.		
		11.00	D				×			11 -
		11.50 - 12.00	В				× × ×			- - -
		12.00 12.00 - 12.45	D	N=19 (4,3/4,4,6,5)			× × ×			12 -
		12.50 - 13.00	В				× × ×			-
							××			13 —
		13.50 - 13.95	U				××			
		14.00	D				×			14 —
		14.50 - 15.00	В				×			-
							××			-
		15.00 15.00 15.00 - 15.45	ES D	N=28 (4,7/7,6,8,7)			<u>×</u> <u>×</u> <u>×</u>			15 — - -
		15.50 - 16.00	В				× × ×			-
							××			16 -
		16.50 - 16.95	U				× × ×			-
		17.00	D				×_×_×			17 -
		17.50 - 18.00	В				× × ×			- - -
		18.00 18.00 - 18.45	D	N=32 (5,5/7,8,8,9)			×			18 -
		18.50 - 19.00	В				× × ×			-
							× × × ×			19 =
		19.50 - 19.95	U				X_X_X			-
		20.00	D				××	Continued on next sheet		20 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit to 1.30m bgl. 3. Groundwater seepage encountered at 2.5m bgl. 4. Standpipe installed to 4m; 1m plain, 3m slotted.



GRO	OUNDTE CONSULTING	СН			and Ma	Во	reho	ole Log	Borehole No. WBH102 Sheet 3 of 4
Projec	t Name:	PROJECT	OTTE		roject No. RO-22165		Co-ords:	546659.86 - 258941.90	Hole Type CP
Locati	on:	CAMBRID	GE				Level:	10.43	Scale 1:50
Client	:	RPMI RAII	LPEN				Dates:	22/11/2022 - 23/11/2022	Logged By JKP
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	
	Otrikoo	Depth (m) 20.00	Type ES	Results	(111)	(111)	×_^_>		
		20.50 - 21.00	В				× × ×		
		21.00 21.00 - 21.45	D	N=35 (6,7/8,8,10,9)			X X X		21 -
		21.50 - 22.00	В				××		- -
							×		22 —
		22.50 - 22.95	U				××		
		23.00	D				××		23 —
		23.50 - 24.00	В				x_x_x		
		24.00 24.00 - 24.45	D	N=41 (6,7/9,10,11,11			××		24 —
		24.50 - 25.00	В				× × ×		
		25.00	ES				× × × × × × × × × × × × × × × × × × ×		25 —
		25.50 - 25.95	U				××		
		26.00	D				×		26 — -
		26.50 - 26.95 27.00	В	N=45			XX		27 —
		27.00 - 27.45 27.50 - 28.00	D B	(6,7/11,11,11,12)			× - × - × - × - × - × - × - × - × - × -		
		28.50 - 28.95	U				× × × × × × × × × × × × × × × × × × ×		28 —
		29.00	D				× × ×	Becoming very high strength from 28.5m bgl	29 —
		29.50 - 30.00	В				× × × ×		
Rema		30.00	D		30.00	-19.57	××	Continued on next sheet	30 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit to 1.30m bgl. 3. Groundwater seepage encountered at 2.5m bgl. 4. Standpipe installed to 4m; 1m plain, 3m slotted.



				Во	reho	ole Log	Borehole No. WBH102 Sheet 4 of 4		
Projec	ct Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546659.86 - 258941.90	Hole Type CP
Locati	ion:	CAMBRID	GE				Level:	10.43	Scale 1:50
Client	:	RPMI RAI	LPEN				Dates:	22/11/2022 - 23/11/2022	Logged By JKP
Well	Water Strikes	Sample: Depth (m)	s and I	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Descriptio	
		30.00 30.00	ES					End of borehole at 30.00	m
		30.00		N=49 (7,7/11,12,13,13)				
									31 -
									32 -
									02
									-
									33 -
									34 -
									35 -
									36 -
									37 -
									38 -
									39 -
Rema	rke								40 -

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit to 1.30m bgl. 3. Groundwater seepage encountered at 2.5m bgl. 4. Standpipe installed to 4m; 1m plain, 3m slotted.



									Borehole N	1 0.
	G					Bo	reho	ole Log	WBH103	
GRO	OUNDTE CONSULTING	CH					. •	J.0 2 09	Sheet 1 of	f 3
Projec	t Name:	PROJECT	OTTE	· R	Project No. SRO-22165		Co-ords:	546658.24 - 258889.96	Hole Type CP	е
Locati	on:	CAMBRID	GE				Level:	10.01	Scale 1:50	
Client:		RPMI RAII	LPEN				Dates:	18/11/2022 - 21/11/2022	Logged B JKP	y
Well	Water	Samples	s and	In Situ Testing	Depth	Level	Legend	Stratum Description		
vveii	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend		I	
					0.26	9.75		MADE GROUND: Black tarmac.		
		0.00	F.C.		0.55	9.46		MADE GROUND: Light brown grey concrete.] -
		0.60	ES			00		MADE GROUND: Brown clayey me coarse sand and angular to subrout	nded medium	-
		1.10	ES					to coarse gravel of mixed lithologies chert and quartzite.	s including	1 -
								·		_
		1.50		N=46 (9,5/11,12,12,11)						_
		1.50 - 2.00 1.60	B ES	, , , , ,	1.80	8.21		MADE GROUND: Structureless cha		-
		2.00	ES		2.20	7.81		of firm white cream mottled brownis gravelly silty clay. Clasts are weak I		2 -
		2.30 2.50 - 2.95	ES U					subrounded. (Reworked). Structureless CHALK composed of	firm white	1 -
		2.00 2.00						cream mottled brownish yellow silty Dm).	clay. (Grade	
		3.00	D				 	Becomes light brown grey and laminated fro	om 3 0m hal	3 -
		3.00	ES		3.20	6.81		Stiff dark grey silty laminated CLAY.		
		3.50	ES				×	<i>.</i> ,		-
		3.50 3.50 - 3.95	D	N=12 (1,1/2,3,3,4)			×			=
		3.50 - 4.00	В				× ×			4 =
							× – ×			
		4.50 4.50 - 4.95	ES U				×_×_×			_
							×_×_×			
		5.00	D				×_×			5 -
		F FO C OO	_				××			_
		5.50 - 6.00	В				×-×			-
		6.00		N=15 (2,3/3,4,4,4)			××			6 —
		6.00 - 6.45	D	14 16 (2,6/6, 1, 1, 1)			× - ×			
							× × →			-
							× × ×			-
		7.00	D				××			7 -
		7.00 - 7.50	В				××			_
		7.50 - 7.95	U				××	Becomes very stiff from 7.5m bgl.		
							×			
		8.00 8.00 - 8.50	D B				×			8 _
			-				× × →			
							× × ×			_
		0.00		N-22 (2 4/6 6 6 5)			×_×_×			_
		9.00 9.00 - 9.45	D	N=23 (3,4/6,6,6,5)			×_×_×			9 -
		9.50	ES				××			-
		9.50 - 10.00	В				××			=
							××			10 -
Rema	rks							Continued on next sheet	\neg	

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Coring undertaken to 0.55m bgl. 3. Hand excavated trial pit undertaken to 1.40m bgl. 4. Groundwater encountered at 2.5m bgl. 5. Standpipe installed to 2m: 1m plain, 1m slotted.



	G					Borehole No. WBH103				
GRO	DUNDTE	СН				DU	renc	ole Log		
	CONSULTING			F	Project No.		Т		Sheet 2 of Hole Type	
Projec	t Name:	: PROJECT	OTTE		RO-22165		Co-ords:	546658.24 - 258889.96	CP	
Locati	on:	CAMBRID	GE				Level:	10.01	Scale 1:50	
Client:		RPMI RAII	PEN				Dates:	18/11/2022 - 21/11/2022	Logged B	Ву
Olicita		Ι		In City Tooting			Dates.	10/11/2022 - 21/11/2022	JKP	T
Well	Water Strikes	Depth (m)	Туре	In Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	า	
		Boptii (iii)	1,700	rtodato			××			-
		40.50 40.05	١				×_×_×			-
		10.50 - 10.95	U				×			-
		11.00	D				× ×			11 -
		-					× × ×			-
		11.50 - 12.00	В				××			-
							××			-
		12.00 12.00 - 12.45	D	N=27 (4,5/5,7,8,7)			×-×-			12 -
							<u>×</u>			-
		12.50 - 13.00	В				× × ×			-
							×_×_×			13 -
							××			10
		13.50 - 13.95	U				× ×	Lich atropath at 12 Fm hal		-
							××	High strength at 13.5m bgl.		
		14.00	D							14 -
							×			-
		14.50 - 15.00	В				×××			-
							×_×_×			-
		15.00 15.00	ES	N=30 (4,5/7,8,8,7)			×			15
		15.00 - 15.45	D	14-00 (+,0//,,0,0,/			××			
		15.50 - 16.00	В				<u>×_×</u>			-
							×_×_×			1,0
							×			16
		16.50 - 16.95	U				××			
		10.00					×			
		17.00	D				××_			17 -
							××			.
		17.50 - 18.00	В				××			-
							<u>×_×</u>			
		18.00		N=35 (4,6/8,9,9,9)			×_×_×			18
		18.00 - 18.45	D				×			
		18.50 - 19.00	В				×			-
							×××			-
							× × ×			19 -
		40.50 40.05	١				\times			
		19.50 - 19.95	U				××			-
		20.00	D				×			20 -
Rema	rks	20.00						Continued on next sheet		

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Coring undertaken to 0.55m bgl. 3. Hand excavated trial pit undertaken to 1.40m bgl. 4. Groundwater encountered at 2.5m bgl. 5. Standpipe installed to 2m: 1m plain, 1m slotted.



R									Borehole No.
	9					Boi	reho	ole Log	WBH103
GRC	OUNDTE	CH					• • • • • • • • • • • • • • • • • • • •	5.5 = 59	Sheet 3 of 3
Projec	t Name:	: PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546658.24 - 258889.96	Hole Type CP
Location	on:	CAMBRID	GE	<u>'</u>			Level:	10.01	Scale 1:50
Client:		RPMI RAII	LPEN				Dates:	18/11/2022 - 21/11/2022	Logged By JKP
Well	Water Strikes			In Situ Testing	Depth	Level (m)	Legend	Stratum Description	
	Ollikes	Depth (m) 20.00	Type ES	Results	(m)	(111)	×		-
		20.50 - 21.00	В				×		
		21.00 21.00 - 21.45	D	N=38 (6,6/9,9,10,10	0)		× × × × × × × × × × × × × × × × × × ×		21 -
		21.50 - 22.00	В				×× ××		22 —
		22.50 - 22.95	U				x x x	Becomes very high strength at 22.5m bgl.	
		23.00	D				xx		23 —
		23.50 - 24.00	В				×× ××		-
		24.00 24.00 - 24.45 24.50 - 25.00	D B	N=42 (6,6/10,10,11,11)			xx		24 -
		25.00	ES		25.00	-14.99	××	End of borehole at 25.00 m	25 —
									26
									27 —
									28 —
									29 —
Remai	rks								30 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Coring undertaken to 0.55m bgl. 3. Hand excavated trial pit undertaken to 1.40m bgl. 4. Groundwater encountered at 2.5m bgl. 5. Standpipe installed to 2m: 1m plain, 1m slotted.



	<u> </u>						Borehole No.			
GRO	DUNDTE	CH				Bor	ehe	ole Log	WBH10	3 A
- Or (C	CONSULTING						ı		Sheet 1 of	
Projec	t Name:	PROJECT	OTTE	:R	Project No. GRO-22165		Co-ords:	: -	Hole Type CP	9
Locati	on:	CAMBRID	GE				Level:		Scale 1:50	
Client:		RPMI RAIL	_PEN				Dates: 17/11/2022 - 17/11/2022		Logged By JKP	
Well	Water Strikes			n Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)		MADE GROUND: Black tarmac.		_
					0.25 0.30			MADE GROUND: Light grey concre	te	_
								Lift of boreflole at 0.30 fil		=
										1 -
										_
										-
										2 —
										=
										=
										3 —
										3 -
										=
										=
										4 -
										-
										5 -
										=
										-
										6 =
										=
										=
										7 -
										-
										=
										8 —
										=
										9 —
										=
										_
										-
										10 —

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Obstruction encountered at 0.3m bgl. 3. Position relocated. 4. Borehole backfilled with arisings.



	<u> </u>								Borehole N	lo.
GRO	DUNDTE	CH				Bor	eho	ole Log	WBH10	3B
	CONSULTING						1		Sheet 1 of	
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	-	Hole Type CP	9
_ocati	on:	CAMBRID	GE				Level:		Scale 1:50	
Client:		RPMI RAIL	_PEN				Dates:	17/11/2022 - 17/11/2022	Logged By JKP	у
Well	Water			In Situ Testing	Depth	Level	Legend	Stratum Description		
	Strikes	Depth (m)	Туре	Results	(m)	(m)		MADE GROUND: Black tarmac.		_
					0.27			End of borehole at 0.27 m		
										=
										1 -
										=
										-
										2 —
										=
										=
										3 —
										=
										4 —
										4 -
										5 —
										=
										_
										6 —
										_
										-
										7 _
										=
										8 -
										=
										9 —
										10
				Ì						10 —

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Obstruction encountered at 0.27m bgl. 3. Position relocated. 4. Borehole backfilled with arisings.



									Borehole N	lo.
CDC		CLI				Во	reho	ole Log	WBH10)4
GKU	OUNDTE CONSULTING	LH				_		J - 3 J	Sheet 1 of	3
Projec	t Name:	PROJECT	OTTE	R	Project No. GRO-22165		Co-ords:	546704.85 - 258917.46	Hole Type CP	Э
Locati	on:	CAMBRID	GE				Level:	9.62	Scale 1:50	
Client:		RPMI RAI	LPEN				Dates:	24/11/2022 - 25/11/2022	Logged B	у
Well	Water	Sample	s and I	n Situ Testing	Depth	Level	Legend	Stratum Description	_	
,,,,,,,	Strikes	Depth (m)	Туре	Results	(m)	(m)	Zogona	·		
		0.20 - 0.40 0.40 - 0.80 0.50 0.70 0.80 - 1.20 1.00	B B ES ES B ES		0.10	9.52 8.87		MADE GROUND: Black tarmac. MADE GROUND: Dark brown grey medium to coarse sand with modera content of mixed lithologies includin and quartzite. Gravel is angular to reto coarse of mixed lithologies include concrete and chert. MADE GROUND: Dark brown grey angular to subangular fine to coarse mixed lithologies including concrete.	ate cobble g concrete ounded fine ling brick, clayey sandy e gravel of	1 —
		1.50 1.50 1.50 - 2.00	ES B	N=4 (1,1/1,1,1,1)	1.50	8.12		quartzite with occasional plastic and Sand is fine to coarse. (Plastic & rul MADE GROUND: Soft to firm dark ashy sandy gravelly clay with high content of wood, brick and tiles. Grangular to subangular fine to coarse.	d rubber. bber=5%). grey black cobble avel is	2 —
	•	2.50 2.50 2.50 - 3.00	ES B	N=5 (1,1/1,1,2,1)				lithologies including glass, brick, col tiles. Contains plastic, metal, wood occasional fabric. Moderate organic (Fines=50%, Coarse inert=10%, Me Ceramics=33%, Fabric=2%, Wood=	ncrete and and codour. etal, Glass &	3 —
		3.20 3.50 3.50 - 4.00 3.70	B ES	N=6 (1,1/1,2,2,1)					,	4 —
		4.20 4.50 4.50 - 5.00	ES B	N=4 (1,1/1,1,1,1)	4.90	4.72				- - - - - - -
		5.00 5.50 - 6.00	ES B		4.50	4.12		MADE GROUND: Black clayey ang subangular fine to coarse gravel of lithologies including brick with high content of brick and tiles. Contains bottle caps, glass, string, fabric and Moderate to strong organic odour. (mixed cobble wood, metal, plastic. Metal, Glass	5 —
		6.00 6.00 6.00 - 6.50	ES B	N=3 (1,1/1,0,1,1)	6.00	3.62		& Ceramics=45%, Fabric=5%, Fine: Coarse Inert=30%). MADE GROUND: Soft to firm black sandy ashy clay with high cobble co mixed lithologies including glass, tile ceramic. Gravel is angular to suban coarse of mixed lithologies including and ceramic. Contains wood, plastic	gravelly ontent of es, brick and gular fine to g glass, tiles c, metal,	6
		7.50 7.50 - 8.00	В	N=6 (1,1/2,2,1,1)				glass bottles, springs and fabric. Mo organic odour. (Fines=50%, Metals. Ceramics=25%, Fabric=2%, Wood= Inert=13%)	Glass and	-
		8.50 8.50 - 9.00	ES ES B					Strong hydrocarbon odour at 8.0m bgl.		8 -
		9.00 9.00 9.00 - 9.50	ES B	N=6 (2,2/1,1,2,2)				Contains shoes and leather at 9.0m bgl.		9 -
		10.00	ES				*********	Continued on next sheet		10 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered 2.8m bgl. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 16m, 4m plain, 12m slotted.



Project Name: PROJECT OTTER										Borehole N	lo.
Sheet 2 of 3		9					Bo	reho	ole Loa	WBH10)4
Continue	GRO	OUNDTE CONSULTING	CH					0110	old Log	Sheet 2 of	3
Column	Projec	t Name:	PROJECT	OTTE				Co-ords:	546704.85 - 258917.46		е
Clear Special RAILPEN Dates: 24/11/2022 - 25/11/2022 Logged By JKP	Locati	on:	CAMBRID	GE	,	5110 ZZ 100		Level:	9.62	Scale	
Well Water Samples and in Situ Testing Depth Strikes Depth (m) Type Results (m) Legend Stratum Description	Client		PDMI PAII	DEN				Dates:	24/11/2022 - 25/11/2022	+	у
Strikes Depth (m) Type Results (m) (m) Legend Stratum Description	Ciletit				n Situ Testina			Dates.	24/11/2022 - 25/11/2022	JKP	
10.50 - 10.95 D B	Well							Legend	Stratum Description	า	
14.00 ES fragments, plastic, copper, rubber, wood and fabric. Moorper, rubber, wood and fabric. Moorper, rubber, wood and fabric. Moorper organic oddour, (Fines-20%, Metals, Glass and Ceramics-40%, Coarse Inert=25%, Wood=10%, Fabric=5%). 14 - Increase Inert=25%, Wood=10%, Fabric=5%). 15 - Increase Inert=25%, Wood=10%, Fabric=5%). 16 - Increase Inert=25%, Wood=10%, Fabric=5%. 16 - Increase Inert=25%, Wood=10%, Fabric=10%, Increase Inert=25%, Wood=10%, Fabric=10%, Increas			10.50 - 10.95 10.50 - 11.00 11.00 12.00 12.00 - 12.50 13.00 - 13.50 13.50	B ES B ES B	N=0 (0,0/0,0,0,0)		-3.38		MADE GROUND: Black slightly cla angular to subangular fine to coars mixed lithologies including glass, til with high cobble content of of mixe	yey sandy e gravel of es and brick d lithologies	12 —
16.00 - 16.50 B 16.50 16.50 - 16.95 D 17.00 ES 17.00 - 17.50 B 18.00 - 18.45 U 18.50 D 18.50 - 19.00 B N=32 (2,7/6,8,8,10) 19.50 - 19.95 D 20.00 ES Continued on next sheet			15.00 15.00	ES	N=4 (1,1/1,1,1,1)				fragments, plastic, copper, rubber, fabric. Moderate organic odour. (Fi Metals, Glass and Ceramics=40%, Inert=25%, Wood=10%, Fabric=5%	wood and nes=20%, Coarse	-
16.50 - 16.95 D 17.00 ES 17.00 - 17.50 B 18.00 - 18.45 U 18.50 D 18.50 - 19.00 B N=32 (2,7/6,8,8,10) 20.00 ES N=32 (2,7/6,8,8,10)				В			-6.28	× × × × × × × × × × × × × × × × × × ×	Stiff grey silty laminated CLAY.		16 —
18.50 D 18.50 - 19.00 B N=32 (2,7/6,8,8,10) 20.00 ES N=32 (2,7/6,8,8,10) Continued on next sheet			16.50 - 16.95 17.00	ES	N=22 (3,4/6,5,6,5)			x			17 —
19.50 19.50 - 19.95 D 20.00 ES N=32 (2,7/6,8,8,10) N=32 (2,7/6,8,8			18.50	D				× × × × × × × × × × × × × × × × × × ×	Very high strength at 18.0m bgl.		18 -
Continued on next sheet			19.50		N=32 (2,7/6,8,8,10)		x			19 -
			20.00	ES				××	Continued on next sheet		20 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered 2.8m bgl. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 16m, 4m plain, 12m slotted.



GROUNE CONSUL	OTECH TING				Во	reho	ole Log	Borehole No. WBH104 Sheet 3 of 3
Project Na		OTTE	R	Project No. GRO-22165		Co-ords:	546704.85 - 258917.46	Hole Type CP
Location:	CAMBRID	GE		,		Level:	9.62	Scale 1:50
Client:	RPMI RAII	LPEN				Dates:	24/11/2022 - 25/11/2022	Logged By
Client: Well Strik	RPMI RAII	LPEN	N=40 (6,6/9,10,11,10)	Depth (m)	Level (m)			21 — 22 — 23 — 24 — 24 — 24 — 25 — 25 — 25 — 26 — 26 — 26 — 26 — 26
Remarks								29 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered 2.8m bgl. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 16m, 4m plain, 12m slotted.



									Borehole N	lo.
	(Ro	r <u>e</u> ho	ole Log	WBH10)5
GRO	DUNDTE	CH				טט		oic Log	Sheet 1 of	
Projec	t Name:	PROJECT	OTTE	·R	Project No. GRO-22165		Co-ords:	546720.51 - 258986.62	Hole Type	
Locati	on.	CAMBRID	GE		GRU-22 100		Level:	9.67	Scale	
									1:50 Logged B	V
Client:	:	RPMI RAII				Γ	Dates:	21/11/2022 - 22/11/2022	JKP	,
Well	Water Strikes	Sample: Depth (m)	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	ı	
		0.20 0.30 0.50 - 1.00 0.80 1.00 1.30 1.50 - 2.00 1.80 2.00 2.30 2.50 2.50 - 3.00 2.80 3.00	D ES B ES D ES B ES D	N=1 (1,0/0,1,0,0) N=4 (1,2/1,1,1,1)		9.57 8.92 8.17		MADE GROUND: Black tarmac. MADE GROUND: Dark brown grey medium to coarse sand. Gravel is a subangular medium to coarse of mi lithologies including limestone. MADE GROUND: Firm to stiff light of dark brown sandy gravelly clay. Sar Gravel is angular to subrounded fin of mixed lithologies including chert, limestone. Faint organic odour. MADE GROUND: Soft to firm black gravelly ashy clay with low cobbe of concrete, metal and rubber. Sand is coarse. Gravel is angular to subang coarse of mixed lithologies including wood, metal, limestone, and rubber organic odour. (Metal, Glass and Ceramics=15%, Fines=65%, Wood Inert=15%).	grey mottled and is medium. e to medium quartzite and sandy very content of a fine to glass, . Moderate	1
		3.30 3.50 3.50 3.50 - 4.00 4.00	ES ES B ES	N=13 (2,4/4,4,3,2) N=50 (2,5/50 for 20mm))					4 —
		5.00 6.00	ES	N=2 (1,0/0,1,0,1)	5.00	4.67		MADE GROUND: Soft black dark g gravelly clay with low cobble conter Gravel is angular to subrounded finmixed lithologies including brick, glafabric. Moderate organic odour. (Po (Fines=70%, Metals, Glass and Cer Coarse Inert=15%, Fabric=5%).	at of concrete. e to coarse of ass, chert and or recovery).	6
		7.00 7.50	ES	N=7 (1,1/1,2,2,2)				Rope present from 8.0m bgl.		7 —
		9.00 9.00 10.00	ES	N=3 (3,3/1,0,1,1)	10.00	-0.33		Continued on next sheet		9

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusal recorded at 4.5m bgl. 5. Dual standpipe installed: Shallow installation to 3m, 1m plain, 2m slotted. Deep Installation to 6m, 4m plain, 2m slotted.



	<u> </u>								Borehole N	√o.
CD.C	9					Bo	reho	ole Log	WBH10)5
GRC	OUNDTE CONSULTING	CH					. •		Sheet 2 of	3
Projec	t Name:	: PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546720.51 - 258986.62	Hole Type CP	е
Location	on:	CAMBRID	GE				Level:	9.67	Scale 1:50	
Client:		RPMI RAII	LPEN				Dates:	21/11/2022 - 22/11/2022	Logged B JKP	у
Well	Water		and I	n Situ Testing	Depth	Level	Legend	Stratum Description	1	
	Strikes	Depth (m)	Туре	Results	(m)	(m)				
		10.00 - 10.50 10.50 10.50 10.50 - 10.95 11.00 11.50 - 12.00 12.00 - 12.45 12.50 - 13.00 13.50 13.50 13.50 13.50 13.50 14.00 14.00 - 14.50 15.00 15.00 - 15.45 15.50 15.50 - 16.00 16.50 16.50 16.50 16.50 17.50 17.50	B ES D D B D ES D D B ES D D B D	N=16 (2,3/4,4,4,4 N=11 (1,2/2,3,3,3 N=30 (3,4/6,7,8,9	14.00	-4.33	X X X X X X X X X X X X X X X X X X X	MADE GROUND: Structureless characteristics of firm light brown cream mottled yet gravelly very silty clay. Clasts are with density subangular to subrounded. Very stiff silty laminated CLAY. Very high strength at 15.0m bgl.	ellow brown reak low	11 - 13 - 14 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17
		18.00 - 18.45	U				X X X X X X X X X X X X X X X X X X X			18 —
Remai		19.50 19.50 19.50 - 19.95 20.00	D D ES	N=37 (4,6/8,8,10,1	1)		×	Continued on next sheet		20 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusal recorded at 4.5m bgl. 5. Dual standpipe installed: Shallow installation to 3m, 1m plain, 2m slotted. Deep Installation to 6m, 4m plain, 2m slotted.



	DUNDTE CONSULTING et Name:				roject No. RO-22165	Во	Co-ords:	546720.51 - 258986.62 9.67	Borehole No. WBH105 Sheet 3 of 3 Hole Type CP Scale
Client:		RPMI RAII					Dates:	21/11/2022 - 22/11/2022	1:50 Logged By
	Water			In Situ Testing	Depth	Level			JKP
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description	
		20.00 - 20.50 20.50 21.00 - 21.45	B D				X		21 —
		21.50 21.50 - 22.00	D B				× x - x - x - x - x - x - x - x - x	High strength at 21.0m bgl.	
		22.50 22.50 22.50 - 22.95 23.00 - 23.50	D D B	N=38 (5,7/9,9,10,10)			X		22
		24.00 - 24.45 24.50	U				× × × × × × × × × × × × × × × × × × ×		24 -
		24.50 - 25.00	В				×_×_×		
		25.00	ES		25.00	-15.33	<u>^x-</u>	End of borehole at 25.00 m	25
									27 —
									28
									29
Rema	rks								30 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated pit undertaken to 1.40m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusal recorded at 4.5m bgl. 5. Dual standpipe installed: Shallow installation to 3m, 1m plain, 2m slotted. Deep Installation to 6m, 4m plain, 2m slotted.



									Borehole N	۱o.
GRO	S DUNDTE	CH				Во	reho	ole Log	WBH10	
	CONSULTING			P	roject No.		1		Sheet 1 of Hole Type	
Projec	t Name:	PROJECT	OTTE	· R	RO-22165		Co-ords:	546673.71 - 259009.87	CP	
Locati	on:	CAMBRID	GE				Level:	11.18	Scale 1:50	
Client:	:	RPMI RAII	LPEN				Dates:	17/11/2022 - 18/11/2022	Logged B JKP	y
Well	Water	Samples	s and	n Situ Testing	Depth	Level	Legend	Stratum Description	1	
	Strikes	Depth (m)	Type ES	Results	(m)	(m)		MADE GROUND: Black tarmac.		
		0.15 0.20 0.50 - 1.00	D B		0.10 0.20 0.40	11.08 10.98 10.78		MADE GROUND: Dark brown grav- to coarse sand. Gravel is angular to fine to coarse of mixed lithologies in	subangular	
		0.80	D					limestone. MADE GROUND: Light brown grey	dry mix	
		1.00 - 1.50 1.10	B ES		1.00	10.18		concrete. MADE GROUND: Light brown cond	crete (Poor	1 -
		1.20	D	N=4 (4 4 (4 4 4 4 4)				condition). MADE GROUND: Firm light brown	sandy	
		1.50 1.50 - 1.95	D	N=4 (1,1/1,1,1,1)				gravelly clay. Gravel is angular to so fine to coarse of mixed lithologies in	ubangular	-
		1.60 1.90	ES ES		2.00	9.18		and chert. Sand is fine to coarse. Gravel of low density chalk present from 1.	-	2 -
		2.00 2.00 - 2.50	D B					Structureless CHALK composed of cream mottled yellow brown gravell	firm white	_
		2.10 2.50	ES	N=28 (1,4/5,10,7,6)			++++++	Clasts are weak low density angula subrounded with occasional flint. (G	r to	
		2.50 - 2.95	D					(J. 440 Z).	_
		3.00 3.00	D ES				1 1 1	Occasional shell fragments present from 3.	0m bgl.	3 —
		3.00 - 3.50	В	N 47 (4 0/0 4 5 5)]
		3.50 3.50 - 3.95	D	N=17 (1,2/3,4,5,5)						-
		4.00	D					Low cobble content between 3.80m bgl and	d 4.10m bgl.	4 -
		4.00 4.00 - 4.50	ES B		4.30	6.88		Becomes light brown and laminated with ba clay from 4.10m bgl.	ands of dark grey	
		4.50 - 4.95	U				× × →	Stiff dark grey silty laminated CLAY	-	_
							×_×_×			-
		5.00 5.00	D ES				×			5 -
		5.00 - 5.50	В				××			_
							×			=
		6.00	D				× × ×	Very stiff from 6.0m bgl.		6 —
		6.00 6.00 - 6.45	D	N=17 (2,3/3,4,5,5)			×_×_×	very sun nom o.om bgr.		_
		6.50 - 7.00	В				××			_
							×_×_×			-
		7.00	D				×			7 -
		7.50 - 7.95	U				× × ×			
		7.00 7.00					× × ×	High strength at 7.5m bgl		_
		8.00	D				×			8 -
		8.00 - 8.50	В				×_ <u>×</u> _×			
							×			-
							\times \times \to			
		9.00 9.00	D	N=25 (2,4/5,6,7,7)			×_×_×			9 —
		9.00 - 9.45 9.50 - 10.00	D B	,			$\overline{\times}$			_
		5.55 - 10.60					××			
		10.00	D				<u>×_^_x</u>	Continued on next sheet		10 —
Rema	rke							Continued on next sheet		1

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Standpipe installed to 4m: 1m plain, 3m slotted.



	<u></u>								Borehole No.
	G					Bo	reho	ole Log	WBH106
GRO	OUNDTE	CH					. •	3.0 209	Sheet 2 of 3
Projec	t Name:	PROJECT	OTTE		Project No.		Co-ords:	546673.71 - 259009.87	Hole Type
- 10,00		11100201			GRO-22165		00 0140.	210070.17 20000.01	CP Scale
Locati	on:	CAMBRID	GE				Level:	11.18	1:50
Client:		RPMI RAIL	PEN				Dates:	17/11/2022 - 18/11/2022	Logged By JKP
Well	Water	-	and	In Situ Testing	Depth	Level	Legend	Stratum Description	
VVCII	Strikes	Dopui (III)	Туре	Results	(m)	(m)	Logoria	Ottatam Besonption	
		10.00	ES				×		
		10.50 - 10.95	U				× × ×		=
							×_×_×		=
		11.00	D				×_×_×		11 -
		11.00 - 11.50	В				<u>××</u>		=
							××		
							×-^-×]
		12.00 12.00	D	N=26 (3,4/5,6,7,8)		×		12 —
		12.00 - 12.45 12.50 - 13.00	D				\times \times \to		=
		12.50 - 13.00	В				×_×_×		
		13.00	D				×_×_		13 —
		.0.00					<u>×</u> _ <u>×</u>		
		13.50 - 13.95	U				×_×_×		_
							××		=
		14.00	D				××		14 -
		14.00 - 14.50	В				× - ×		=
							× × ×		-
							×_×_×		
		15.00 15.00	D ES				<u>×_×</u>		15 —
		15.00 15.00 - 15.45	D	N=34 (3,4/6,8,10,1	0)		×_×_×		=
		15.00 - 15.45 15.50 - 16.00	В				×-^-×		=
		16.00	D				×		16 —
							× × ×		
		16.50 - 16.95	U				× × ×		=
							×_×_×		=
		17.00 17.00 - 17.50	D B				××		17 -
		17.00 - 17.30					××		
							××		=
		40.00	_				××		
		18.00 18.00	D	N=36 (4,5/7,9,10,1	0)		×_×_×		18 —
		18.00 - 18.45 18.50 - 19.00	D B				×_×_×		
		10.00					××		
		19.00	D				××		19 —
							××		
		19.50 - 19.95	U				<u>×</u>		
							× × ×		=
		20.00	D				^—×-	Continued on next sheet	20
Rema	١KS								

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Standpipe installed to 4m: 1m plain, 3m slotted.



	(D		-1-1	Borehole No.
GRO	DUNDTE	СН				ROI	reno	ole Log	WBH106
	CONSULTING	DD0 1507			Project No.			540070 74 050000 07	Sheet 3 of 3 Hole Type
Projec	t Name	PROJECT	OTTE		GRO-22165		Co-ords:	546673.71 - 259009.87	CP Scale
Locati	on:	CAMBRID	GE				Level:	11.18	1:50
Client:		RPMI RAII	LPEN				Dates:	17/11/2022 - 18/11/2022	Logged By JKP
Well	Water Strikes			In Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	1
	Ottikes	20.00	Type ES	Results	(111)	(111)	×_^_×		-
		20.00 - 20.50	В				<u>×</u> _ <u>×</u>		
							××		
		21.00 21.00	D	N=40 (6,8/9,9,10,1	2)		××		21 -
		21.00 - 21.45 21.50 - 22.00	D B	(0,0,0,0,1	_,		×		
		21.00 22.00					× × ×		
		22.00	D				\times \times \times		22 —
		22.50 - 22.95	U				×_×_×		
							×	Very high strength at 22.5m bgl.	
		23.00 23.00 - 23.50	D B				×	J	23 —
							××		
							\times \times \times		
		24.00 24.00	D	N=41			××		24 -
		24.00 - 24.45	D	(5,8/8,10,11,12)			<u>×</u> _ <u>×</u>		
		24.50 - 25.00	В				××		
<i>Y</i>		25.00	ES		25.00	-13.82		End of borehole at 25.00 m	25 —
									26 —
									-
									27 —
									28 —
									29 —
Rema	rks								30 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Standpipe installed to 4m: 1m plain, 3m slotted.



									Borehole N	lo.
GRO	S DUNDTE	CH				Во	reho	ole Log	WBH10	07
Unto	CONSULTING								Sheet 1 of	
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546696.74 - 258791.14	Hole Type CP	е
Locati	on:	CAMBRID	GE				Level:	9.55	Scale 1:50	
Client		RPMI RAII	LPEN				Dates:	23/11/2022 - 23/11/2022	Logged B JKP	У
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	1	
	Strikes	Depth (m)	Туре	Results	(m)	(m)		•		
		0.50 0.50 0.50 - 1.00 1.00 1.00	D ES B D ES		0.20	9.35		MADE GROUND: Black tarmac. MADE GROUND: Brown clayey fine sand and angular to subangular me coarse gravel of mixed lithologies in concrete and plastic with moderate content of brick and concrete.	edium to ncluding brick,	1 —
		1.50 1.50 1.50 - 2.00 1.90 2.00 2.00 - 2.50 2.10 2.50 - 2.95	ES B ES D B ES U	N=11 (1,2/2,3,3,3)	2.00	7.55		Structureless CHALK composed of brown cream mottled yellowish browsilty clay. Clasts are weak low dens subangular to subrounded. (Grade Medium strength at 2.5m bgl	wn gravelly ity	2 -
		3.00 3.00 3.00 - 3.50 3.50 - 3.95 3.50 - 3.95 4.00 4.00 - 4.50 4.10 4.50 - 4.95	D ES B D B ES U	N=7 (1,1/1,2,2,2)	4.00	5.55		Very stiff silty laminated CLAY.		3 -
		5.00 5.00 5.00 - 5.50	D ES B				X _ X _ X _ X _ X _ X _ X _ X _ X _ X _			5 -
		6.00 6.00 6.00 - 6.45 6.50 - 7.00	D D B	N=15 (2,3/3,3,4,5)			X			6 -
		7.00 7.50 - 7.95	D U				× × × × × × × × × × × × × × × × × × ×			7 -
		8.00 8.00 - 8.50	D B				× × × × × × × × × × × × × × × × × × ×			8 -
		9.00 9.00 9.00 - 9.45 9.50 - 10.00	D D B	N=20 (3,4/4,5,5,6)			X			9 -
		10.00	D				××	Continued on next sheet		10 -
Rema	rke	I		<u> </u>				Commission on nox shoot		1

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. No groundwater encountered. 4. SPT refusal recorded at 24m bgl. 5. Standpipe installed to 4m: 2m plain, 2m slotted.



CD(G	CO.				Во	reho	ole Log	Borehole N	
GKC	OUNDTE CONSULTING	CH					 -		Sheet 2 of	
Projec	t Name	: PROJECT	OTTE		roject No. GRO-22165		Co-ords:	546696.74 - 258791.14	Hole Type CP	е
Locati	on:	CAMBRID	GE				Level:	9.55	Scale 1:50	
Client:	<u> </u>	RPMI RAII	LPEN				Dates:	23/11/2022 - 23/11/2022	Logged B JKP	у
Well	Water	Samples	and	In Situ Testing	Depth	Level	Legend	Stratum Description	2	
VVCII	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Ollatuiii Desonptioi		
							× - ×			
		10.50 - 10.95	U				××_	Very high strength at 10.5m bgl.		-
							××××	vory mg., suongui ac		-
		11.00	D				× ^	Becomes silty at 11.0m bgl.		11 -
		11.00 - 11.50	В				<u>×_×</u>			-
							××			-
							×-×			-
		12.00 12.00	D	N=27 (2,4/5,7,7,8)			×			12 —
		12.00 - 12.45	D	(=, ,, =,, ,, ,, ,,			× ×			-
		12.50 - 13.00	В				× ×			-
			_				× × ×			-
		13.00	D				× × →			13 —
							×_×_×			-
		13.50 - 13.95	U				\times			-
		14.00	_				× × ×			-
		14.00 14.00 - 14.50	D B				×			14 -
							××			=
							<u>××</u>			-
		15.00	D				×			- -
		15.00	ES				x_ <u>x</u> _x			15 -
		15.00 15.00 - 15.45	D	N=27 (3,4/5,6,8,8)			××			_
		15.50 - 16.00	В				××			-
		16.00	D				××-			16 —
		10.00	5				×			-
		16.50 - 16.95	U				× ×			
		10.00 10.00					<u>×</u> <u>×</u> ×			-
		17.00	D				× × ×			17 —
		17.00 - 17.50	В				×_×_×			'' -
							× × ×			_
							×_×_×			:
		18.00	D				×			18 -
		18.00 18.00 - 18.45	D	N=29 (4,5/5,6,8,10)			××			-
		18.50 - 19.00	В				<u>×_×</u>			_
							××			
		19.00	D				×_ <u>×</u> _×			19 -
							××			-
		19.50 - 19.95	U				XX			_
							× ×			-
		20.00	D				××	Continued on next sheet		20 -
Rema	rks							Continued on next sheet		

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. No groundwater encountered. 4. SPT refusal recorded at 24m bgl. 5. Standpipe installed to 4m: 2m plain, 2m slotted.



	G DUNDTE CONSULTING		OTT	.p. F	Project No.	Boı	reho	ole Log	Borehole No. WBH107 Sheet 3 of 3 Hole Type
Locati	t Name: on:	PROJECT CAMBRID		:R G	SRO-22165		Level:	546696.74 - 258791.14 9.55	CP Scale 1:50
Client:	:	RPMI RAIL	PEN				Dates:	23/11/2022 - 23/11/2022	Logged By JKP
Well	Water Strikes		and I	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	
Remai	rks	21.00 21.00 - 21.45 21.50 - 22.00 22.00 22.50 - 22.95 23.00 23.00 - 23.50 24.00 24.00 - 24.45 24.50 - 25.00 25.00	B D D B D D D B ES	N=36 (5,5/7,9,10,10 N=50 (6,8/50 for 285mm)	25.00	-15.45		End of borehole at 25.00 m	21

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. No groundwater encountered. 4. SPT refusal recorded at 24m bgl. 5. Standpipe installed to 4m: 2m plain, 2m slotted.



### PROJECT OTTER Project No GRO-22165 Co-ords: 546751.38 - 258785.48 Hole Type CP		G					Do	-aha		Borehole N	
Project Name: PROJECT OTTER Project No GRO-22165	GRO	OUNDTE(СН				Dυ	rend	ole Log		
Collect: CAMBRIDGE	Projec	t Name:	PROJECT	OTTE	R	-		Co-ords:	546751.38 - 258785.48	Hole Type	
Client RPMI RAILPEN	Locati	ion:	CAMBRID	GE		3KU-22 100		Level:	8.93	Scale	
Wester Water Strikes Depth (m) Type Results Depth (m) Depth (m) Type Results Depth (m) Type Results Depth (m) Depth (m) Type Results Depth (m) Depth (m) Depth (m) Type Results Depth (m) Depth (m) Depth (m) Depth (m) Type Results Depth (m) Depth (1	У
Strikes	Client				Olfo Tacting		<u> </u>	Dates:	24/11/2022 - 25/11/2022		
0.10	Well	I L						Legend	Stratum Description	1	
5.90 6.00 6.00 - 6.45 6.00 - 6.50 6.50 6.50 6.50 ES 7.00 7.00 7.00 7.00 8.00 - 8.50 7.50 7.50 - 7.95 D 8.10 8.10 9.00 9.00 9.00 9.00 9.00 9.00 9.00			0.50 0.50 - 1.00 0.90 1.00 - 1.50 1.10 1.50 1.50 - 2.00 1.90 2.10 2.50 2.50 3.00 3.50 3.50 3.50 - 4.00 4.00 4.50 4.50 - 5.00	D ES B ES ES ES ES B ES B	N=2 (1,0/0,1,1,0) N=0 (0,0/0,0,0,0) N=0 (0,0/0,0,0,0)	0.10	7.93		MADE GROUND: Brown sandy and subangular fine to coarse gravel of lithologies including brick and concifine to coarse. MADE GROUND: Dark brown clayer angular to subangular fine to coarse mixed lithologies including brick and with low cobble content of brick. Concept Faint solvent odour. Becomes very clayey at 1.5m bgl. MADE GROUND: Black clayey san subangular fine to coarse gravel of lithologies including brick. Sand is formedium. Contains ceramic, cloth, wwire, copper and plastic. Faint solve (Fines=35%, Coarse inert=25%, Metalogies including bricks).	mixed rete. Sand is ey sandy e gravel of d concrete intains metal. dy angular to mixed ine to cood, metal, ent odour. etal, Glass &	3 - 4
9.60 ES 10.00 -1.07		5	5.90 6.00 6.00 - 6.45 6.00 - 6.50 6.10 6.50 7.00 7.00 - 7.50 7.50 - 7.95 8.00 8.00 - 8.50 8.10 9.00 9.00 9.00 9.00 9.00 9.45 9.40 9.50 - 10.00 9.60	ES DBSSES DSBBS DSBBS	N=8 (1,2/2,2,2,2)	9.50	-0.57	XXXXXXXXXX_	Gravel is angular to subangular fine mixed lithologies including brick. Sa medium. Contains metal and plastic (Fabric=10%, Fines=55%, Metal, G Ceramics=15%, Wood=10%, Coars inert=10%).	e to coarse of and is fine to c. lass & se	8

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 1.5m bgl. 4. Dual standpipe installed. Shallow installation to 2m: 1m plain, 1m slotted. Deep Installation to 9.5m: 4m plain, 5.5m slotted.



									Borehole N	No.
	9					Ro	reho	ole Log	WBH108	
GRO	OUNDTE	CH .				טט	CIIC	JIC LOG	Sheet 2 of	
<u> </u>	CONSOLIING			F	Project No. Co. and at 546754.20, 259795.40			Hole Typ		
Projec	t Name	: PROJECT	OTTE		PRO-22165		Co-ords:	546751.38 - 258785.48	CP	
Locati	on:	CAMBRID	GE		Level: 8.93				Scale	
									1:50 Logged B	
Client		RPMI RAII	LPEN				Dates:	24/11/2022 - 25/11/2022	MB	.,
Well	Water	Samples	and	In Situ Testing	Depth	Level	Legend	Stratum Description	n	
VVCII	Strikes	Depth (m)	Туре	Results	(m)	(m)	Logona			
							×	Very stiff dark grey silty laminated (CLAY.	-
		10.50 - 10.95	U				× × ×			
							×—_×			
		11.00 - 11.50	В				×_×_×			11 —
							×_×_×			
							×			
							××			-
		12.00 12.00	D	N=25 (2,3/4,6,7,8)			×_ <u>×</u> _×			12 _
		12.00	D	N-23 (2,3/4,0,7,6)			×-^-×			
		12.50 - 13.00	В				×			-
							× × ×			
		13.00	D				×—_×			13 —
										=
		13.50 - 13.95	U				× × ×			
		14.00					×_×_×			
		14.00 - 14.50	D B				<u>×_×</u>			14 -
							×_×_×			
							××			_
		15.00	D				×			15
		15.00 15.00	ES	N=28 (3,4/6,7,7,8)						_
		15.00 - 15.45	D	14-20 (0,4/0,7,7,0)			× × ×			_
		15.50 - 16.00	В				× × ×			
		16.00	D				× × ×			16 _
							×_×_×			_
		16.50 - 16.95	U				<u>×_×</u> _			
							×			
		17.00 17.00 - 17.50	D B				×_×_×			17 —
		17.50					××			
							××			=
		40.00					× × ×			
		18.00 18.00	D	N=29 (3,4/5,7,8,9)						18 —
		18.00 - 18.45 18.50 - 19.00	D B				× × ×			-
		10.00 - 19.00					×_×_×			=
		19.00	D				×			19 —
							×_×_×			-
		19.50 - 19.95	U				-	High strength at 19.5m bgl.] =
							×	g.r o o g.r at 10.0m sgr.		
		20.00	D				××	Continued on next sheet		20 -
Rema	rks	1		I			1	Some source of the control of the co		

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 1.5m bgl. 4. Dual standpipe installed. Shallow installation to 2m: 1m plain, 1m slotted. Deep Installation to 9.5m: 4m plain, 5.5m slotted.



	DUNDTE CONSULTING et Name:				Project No. GRO-22165	546751.38 - 258785.48	Borehole No. WBH108 Sheet 3 of 3 Hole Type CP Scale 1:50		
Client		RPMI RAII	LPEN		Dates: 24/11/20			24/11/2022 - 25/11/2022	Logged By
Well	Water Strikes		s and I	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	MB
Rema	rke	21.00 21.00 21.00 - 21.45 21.50 - 22.00 22.00 22.50 - 22.95 23.00 23.00 - 23.50 24.00 24.00 - 24.45 24.50 - 25.00	B D D B D B ES	N=41 (6,7/9,10,10,12) N=44 (6,8/10,10,12,12)		-16.07		End of borehole at 25.00 m	21 — 22 — 23 — 24 — 25 — 26 — 27 — 28 — 29 —

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.40m bgl. 3. Groundwater encountered at 1.5m bgl. 4. Dual standpipe installed. Shallow installation to 2m: 1m plain, 1m slotted. Deep Installation to 9.5m: 4m plain, 5.5m slotted.



	G								Borehole No	
GRO	DUNDTE	:СН				Bo	reho	ole Log	WBH10	
Projec	ct Name:	: PROJECT	OTTE	· R	roject No. GRO-22165		Co-ords:	546913.67 - 259028.67	Sheet 1 of 3 Hole Type CP	
Locati	on:	CAMBRID	GE				Level:	9.31	Scale 1:50	
Client:	:	RPMI RAII	LPEN				Dates:	29/11/2022 - 30/11/2022	Logged By JKP	
Well	Water Strikes		_	In Situ Testing	Depth (m)	Level	Legend	Stratum Description		
	Suines	Deptii (iii)	Туре	Results	(m)	(m)		MADE GROUND: Black tarmac.		_
		0.20 - 0.40 0.40 0.40 - 0.80	B ES B		0.27	9.04		MADE GROUND: Light brown grave to coarse sand. Gravel is angular to fine to coarse of mixed lithologies in	subangular	1
	5	0.80 0.80 - 1.20 1.20	ES B ES		1.00	8.31		limestone. Geogrid present at 0.90m bgl. MADE GROUND: Dark brown slight clayey angular to subangular fine to		1 -
		1.50 1.50 - 1.95 1.70	D ES	N=12 (1,3/2,3,4,3)				gravel of mixed lithologies including and ceramic. Sand is fine to medium	brick, chert	-
		2.00 - 2.50 2.20	B ES		2.00	7.31		MADE GROUND: Firm to stiff browr slightly sandy gravelly clay. Gravel is subangular fine to coarse of mixed li	s angular to	2 -
		2.50 2.50 - 2.95	D	N=13 (2,2/3,4,3,3)				including chert. Sand is coarse. (Re Gravel of low densitry chalk present from 2.4	worked).	-
		3.00 3.00 - 3.50	ES B							3 —
		3.50 3.50 - 3.95 3.50 - 4.00 4.00	D B ES	N=10 (3,2/3,2,2,3)						4 —
	3	4.50 4.50 - 4.95 4.50 - 5.00 5.00	D B ES	N=14 (3,3/4,4,3,3)	4.60	4.71		Structureless CHALK composed of a mottled brownish yellow gravelly cla of soft to firm dark grey black silty or Clasts are weak low density subrour and occasional chert. Occassional s	y with bands rganic clay. nded of chalk	5
		5.50	D					present. (Grade Dm).	TIOIS	-
		6.00 6.00 - 6.45	ES U		6.30	3.01		High strength at 6.0m bgl Firm dark grey black slightly sandy s	Slightly	6 -
		6.50	D					gravelly silty organic CLAY. Sand is is subrounded to rounded fine to me quartzite. Moderate organic odour.	fine. Gravel	- - - -
		7.00 7.00 - 7.50	ES B	N-45 (0 A/2 2 A 5)						7 —
	3	7.50 7.50 - 7.95	D	N=15 (3,4/3,3,4,5)						8 —
		8.50 - 9.00	В							- - - -
r.:H:		9.00 9.00 - 9.45	ES U			0.00		High strength at 9.0m bgl		9 -
		9.50 9.50 - 10.00	D B		9.40	-0.09	X X X	Stiff to very stiff grey silty laminated	CLAY.	
Remai		10.00	ES				^—x	Continued on next sheet	1	10 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 9m, 3m plain, 6m slotted.



GRO	G DUNDTE CONSULTING	СН				Во	reho	ole Log	Borehole No. WBH109 Sheet 2 of 3	
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546913.67 - 259028.67	Hole Type CP	
Locati	on:	CAMBRID	GE	·		Level: 9.31		9.31	Scale 1:50	
Client	•	RPMI RAIL	PEN				Dates:	29/11/2022 - 30/11/2022	Logged By JKP	
Well	Water Strikes	-		n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Туре	Results	()	()	×_^×		-	
		10.50 10.50 - 10.95	D	N=17 (3,4/4,5,4,4)			× × × × × × × × × × × × × × × × × × ×		-	
		11.00	D				×		11 -	
		11.50 - 12.00	В				×——×		-	
		12.00 - 12.45	U				× × ×	Becomes very stiff from 12.0m bgl.	12 -	
		12.50	D				×		- - -	
		13.00 - 13.50	В				×		13 —	
		13.50 13.50 - 13.95	D	N=21 (4,4/5,5,5,6)			××		-	
		14.00 - 14.50	В				××		14 =	
							××		-	
		15.00 - 15.45	U				×		15 —	
		15.50	D				××			
							×		-	
		16.00 - 16.50	В				××		16 -	
		16.50 16.50 - 16.95	D	N=30 (3,5/6,8,8,8)			××		-	
		17.00 - 17.50	В				×		17 -	
							×			
		18.00 - 18.45	U				×_×_>		18 -	
		18.50	D				× × ×			
		19.00 - 19.50	В				× × ×		19	
		19.50 19.50 - 19.95	D	N=33 (4,5/6,9,8,10)		XX			
		20.00	ES				<u>×_×</u>	Continued on next sheet	20	
Rema	rks							Continued on next sheet		

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 9m, 3m plain, 6m slotted.



	DUNDTE CONSULTING et Name:				Borehole Log				Borehole No. WBH109 Sheet 3 of 3 Hole Type CP Scale 1:50
Client		RPMI RAII	LPEN				Dates:	29/11/2022 - 30/11/2022	Logged By JKP
Well	Water Strikes		Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	1
Rema	rke	21.00 - 20.50 21.00 - 21.45 21.50 22.00 - 22.50 22.50 - 22.95 23.00 - 23.50 24.00 - 24.45 24.50 24.50 - 25.00 25.00	B U D B U DB ES	N=34 (5,4/7,8,10,9)	25.00	-15.69		Very high strength at 24.0m bgl. End of borehole at 25.00 m	21

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.30m bgl. 3. No groundwater encountered. 4. Dual standpipe installed: Shallow installation to 2m, 1m plain, 1m slotted. Deep Installation to 9m, 3m plain, 6m slotted.



GROUNDTE CONSULTING	ECH				Во	reho	ole Log	Borehole No. WBH110 Sheet 1 of 3	
Project Name	: PROJECT	OTTE	R	Project No. SRO-22165		Co-ords:	546858.54 - 259181.16	Hole Type CP	9
Location:	CAMBRID	GE				Level:	10.99	Scale 1:50	
Client:	RPMI RAII	LPEN		Da		Dates:	01/12/2022 - 01/12/2022	Logged By JKP	y
Well Water Strikes	_	Type	n Situ Testing Results	Depth (m)	Level (m)	Legend	Stratum Description	1	
	0.20 - 0.40 0.40 - 0.80 0.50 0.80 0.80 - 1.20 1.30 1.50 - 1.95 1.80 2.00 - 2.50 2.10 2.40 2.50 - 2.95 2.60	B B E S B E S D E S B E S D E S	N=5 (1,1/1,1,2,1)	0.23 0.30 0.75	10.76 10.69 10.24 9.09		MADE GROUND: Black tarmac. MADE GROUND: Light brown oran medium to coarse sand. Gravel is a subangular fine to coarse of mixed including limestone. MADE GROUND: Brown gravelly m coarse sand. Gravel is angular to su fine to coarse of mixed lithologies ir and flint. Geogrid encountered at 0.50m bgl. MADE GROUND: Dark brown silty gravelly sand. Sand is fine to mediu angular to subrounded fine to mediu lithologies including chert, brick and Structureless CHALK composed of mottled brownish yellow gravelly caweak low density subangular to sub chalk and occasional chert and flint Soft light brown slightly gravelly sar	negular to lithologies needium to ubangular ncluding chert very clayey um. Gravel is um of mixed I slag. cream ay. Clasts are prounded of . (Grade Dm).	1
•	3.00 3.00 - 3.50 3.10 3.50 3.50 3.50 - 3.95 4.00 - 4.50	D B ES D B	N=10 (1,1/2,2,3,3)	3.20	7.79	× × × × × × × × × × × × × × × × × × ×	Gravel is angular to subangular fine lithologies including chalk and occa Becomes silty from 2.70m bgl. Stiff to very stiff dark grey silty lamir	sional chert.	3
	6.00 6.00 - 6.45 6.50 - 7.00	U D B	N=14 (2,3/3,4,3,4)						6 —
	7.50 - 7.95 8.00 8.50 - 9.00 9.00 9.00 - 9.45 9.50 - 10.00	U D B ES	N=16 (3,3/4,4,4,4)				High strength from 7.5m bgl Becomes very stiff from 9.0m bgl.		8

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater seepage encountered at 4.0m bgl. 4. Standpipe installed to 3m: 1m plain, 2m slotted.



									Borehole No.).
	9					Bo	reho	ole Log	WBH110	
GRO	OUNDTE CONSULTING	CH					. 0110	510 L0g	Sheet 2 of 3	
Droing	t Name:	PROJECT	OTTE		Project No.		Co-ords:	546858.54 - 259181.16	Hole Type	
Projec	i Name	PROJECT	OHE	:K	GRO-22165		Co-orus.	340030.34 - 239101.10	CP	
Locati	on:	CAMBRID	GE				Level:	10.99	Scale 1:50	
Client	:	RPMI RAIL	_PEN				Dates:	01/12/2022 - 01/12/2022	Logged By JKP	
	Water	Samples	and I	n Situ Testing	Depth	Level				
Well	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description		
							×-^			-
		10.50 10.05					×-^			=
		10.50 - 10.95	U				×			3
		11.00	D				×		1:	11 —
		11.00					×——×		'	'' <u>-</u>
		11.50 - 12.00	В				× × ×			3
							×_×_×			1
		12.00		N=26 (4,5/6,7,7,6)		× × ×		1:	2 —
		12.00 - 12.45	D	(, , , , ,	,		×_×_×			=
		12.50 - 13.00	В				×_×_×			-
							××			=
							×		1:	3 —
							×-^			1
		13.50 - 13.95	U				×			
							x x			=
		14.00	D				× × ×	Occasional belemnites present from 14.0m	bgl.	4 =
		14.40 - 15.00	В				× – ×			=
		14.40 - 15.00	ь				×_×_×			-
							×_×_×			=
		15.00 15.00	ES	N=29 (5,5/6,7,8,8	,		×		15	5 —
		15.00 - 15.45	D	(-,,	´		×_×_×			=
		15.50 - 16.00	В				××			=
							×			_ =
							×-^*	Becomes slightly sandy from 16.0m bgl.	10	6 —
		16.50 - 16.95	U				××-			-
		10.50 - 10.95					× ×	Very high strength from 16.5m bgl.		=
		17.00	D				× – ×		1-	7 —
							×_×			· ‡
		17.50 - 18.00	В				× × ×			4
							×_×_×			=
		18.00		N=33 (5,6/7,7,9,1	0)		<u>×_×</u>		11	8 —
		18.00 - 18.45	D				<u>×_×</u> _×			1
		18.50 - 19.00	В				×_ <u>×</u> _×			4
							×			=
							××		19	9 _
							××			#
		19.50 - 19.95	U				× ×			\exists
							×_×_			1
	ļ	20.00	D					Continued on next sheet	20	20 —
Rema	rks									1

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater seepage encountered at 4.0m bgl. 4. Standpipe installed to 3m: 1m plain, 2m slotted.



G								Borehole No.	
GRO	DUNDTE	СН				Boi	reho	ole Log	WBH110
	CONSULTING				Project No.				Sheet 3 of 3 Hole Type
Projec	t Name	: PROJECT	OTTE		GRO-22165		Co-ords:	546858.54 - 259181.16	CP
Locati	on:	CAMBRID	GE				Level:	10.99	Scale 1:50
Client:		RPMI RAII	PEN				Dates:	01/12/2022 - 01/12/2022	Logged By JKP
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	1
	Strikes	Depth (m)	Туре	Results	(m)	(m)	× ^ -		
							××		
		20.50 - 21.00	В				×_×_×		
		21.00		N=39			× × ×		21 —
		21.00 - 21.45	D	(5,7/9,10,10,10)			××		
		21.50 - 22.00	В				$\times - \times \rightarrow$]
							××		22 —
							<u>×_×</u>		
		22.50 - 22.95	U				×_×_×		
		23.00	D				××		23 —
		20.00					××		-
		23.50 - 24.00	В				××		
		24.00		N=45			<u>×</u> _ <u>×</u>		24 —
		24.00 - 24.45	D	(6,6/10,11,12,12)		× × ×		
		24.50 - 25.00	В				×_×_×		
		25.00	ES		25.00	-14.01	×	End of borehole at 25.00 m	25 _
									26
									27 —
									28 —
									=
									29 —
									=
									30 —
Rema	rks								

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater seepage encountered at 4.0m bgl. 4. Standpipe installed to 3m: 1m plain, 2m slotted.



								Borehole N	lo.
S OUNDTE	СН				Во	reho	ole Log	WBH11	
CONSULTING				Project No.		Τ		Sheet 1 of	
ct Name:	PROJECT	OTTE				Co-ords:	546557.54 - 258371.44	CP	
ion:	CAMBRID	GE				Level:	11.64	Scale 1:50	
:	RPMI RAII	LPEN				Dates:	31/10/2022 - 09/11/2022	Logged By JKP	у
Water	Samples	and I	n Situ Testing	Depth	Level	I egend	Stratum Description	<u> </u>	
Strikes	Depth (m)	Туре	Results	(m)	(m)	Logo	·		
	0.20 0.20 0.50 0.50 - 1.00 1.00 1.20 1.50 1.50 2.00 2.50 2.50 - 2.95 3.00 3.50 3.50	DES ES BES DES D ES U D ES	PID=1165	3.00	11.39 11.29		MADE GROUND: Light brown grav to coarse sand. Gravel is angular to fine to coarse of mixed lithologies in limestone. Structureless CHALK composed of mottled brown firm gravelly silty cla weak low density angular to subang and chert. (Grade Dm). Moderate to strong solvent odour between bgl. High strength at 2.5m bgl Structureless CHALK composed of silty gravelly clay with moderate col Clasts are weak low density angular	cream firm bble content.	2 - 3
	4.50 4.50 - 4.95 5.00 - 5.50 5.70 6.00 6.70 7.00 - 7.50	ES UB D	PID=4 N=29 (4,5/6,7,8,8)	7.00	4.64		Stiff dark grey laminated silty CLAY		5 6 7
	8.00 8.00 - 8.50 8.70 9.00 9.50 - 10.00	U D B D ES B	N=24 (3,4/5,5,7,7)			X	Continued on next sheet		8 9
ti	ct Name:	Eion: CAMBRID It: RPMI RAII Water Strikes Depth (m) 0.20 0.20 0.50 0.50 1.00 1.00 1.20 1.50 1.50 2.00 2.50 2.50 - 2.95 3.00 4.00 4.50 4.50 - 4.95 5.00 - 5.50 5.70 6.00 6.70 7.00 - 7.50 7.50 - 7.95 8.00 8.00 - 8.50 8.70 9.00 9.00	Consulting: Cat Name: PROJECT OTTER Cat Name: Project Name Cat Name: Project	tt Name: PROJECT OTTER tion: CAMBRIDGE tt: RPMI RAILPEN Vater Samples and In Situ Testing	Correction PROJECT OTTER	tot Name: PROJECT OTTER Project No. GRO-22165	tot Name: PROJECT OTTER	Continue PROJECT OTTER	See PROJECT OTTER

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 4.5m bgl, rising to 3.8m bgl after 20 minutes. 4. SPT refusals recorded from 24.0m bgl. 5. Rotary coring undertaken between 30.0m bgl and 32.0m bgl with 0% recovery. 6. Standpipe installed to 6m: 1m plain, 5m slotted.



	G DUNDTE CONSULTING		F	Project No.	ole Log	Borehole N WBH11 Sheet 2 of Hole Type	1 1			
Project Locati	t Name:	PROJECT CAMBRID			GRO-22165		Co-ords:	546557.54 - 258371.44 11.64	CP Scale	
Client:		RPMI RAIL					Dates:	31/10/2022 - 09/11/2022	1:50 Logged By	у
Well	Water	Samples	and I	n Situ Testing	Depth	Level	Legend	Stratum Description	JKP	
11011	Strikes	Depth (m)	Туре	Results	(m)	(m)	∠ ≏ →	Cuatam Boompuon	•	
		10.20	D				××			-
		10.50 - 10.95	U				×_×_×			_ _ _
		11.00	D				×			11 -
		11.50 - 12.00	В				× × ×			_ _ _ _
		12.00 12.00	D	N=27 (4,4/5,6,8,8)			×_ × →			12 -
		12.50 - 13.00	В				× × ×			-
		13.20	D				××			13 —
		13.50 - 13.95	U				××			-
		14.00 14.00 14.00 - 14.50	D ES B				× × × × × × × × × × × × × × × × × × ×			14 —
		14.70	D				<u>×_×_</u>			-
		15.00		N=31 (4,6/6,7,9,9)			××			15 -
		15.50 - 16.00	В				×			- - - -
		16.20	D				×			16 _
		16.50 - 16.95	U				×			
		17.00 17.00 - 17.50	D B				× × × × × × × × × × × × × × × × × × ×			17 —
		17.80 18.00 18.00	D ES	N=47 (6,9/9,12,12,14)			×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×_ ×	Becomes very laminated and very stiff from	18.0m bgl.	18 —
		18.50 - 19.00	В	(-,,,· - ,· ·)			×			-
		19.20	D				××			19 -
		19.50 - 19.95	U				×	High strength at 19.5m bgl		
Rema		20.00	D				×	Continued on next sheet		20 —

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 4.5m bgl, rising to 3.8m bgl after 20 minutes. 4. SPT refusals recorded from 24.0m bgl. 5. Rotary coring undertaken between 30.0m bgl and 32.0m bgl with 0% recovery. 6. Standpipe installed to 6m: 1m plain, 5m slotted.



					Borehole No.
6		Bo	reho	ole Log	WBH111
GROUNDTECH CONSULTING			. 0	5.0 209	Sheet 3 of 4
Project Name: PROJECT OTTER	Project No.		Co-ords:	546557.54 - 258371.44	Hole Type
Project Name. PROJECT OTTER	GRO-2216	5	Co-oras.	540557.54 - 250571.44	СР
Location: CAMBRIDGE			Level:	11.64	Scale 1:50
Client: RPMI RAILPEN			Dates:	31/10/2022 - 09/11/2022	Logged By JKP
Water Samples and In Situ Testin	ng Depth	Level	Legend	Stratum Description	'
Depth (m) Type Result	s (m)	(m)	Legend	Stratum Description	ı
20.00 - 20.50 B			××		
			× × ×		=
20.70 D			× × ×		
21.00 N=36 (3,6/6,9	9,9,12)		×_×_×		21 -
			×_×_×		
21.50 - 22.00 B			<u>×_×</u>		-
			×_×_×		
22.00 ES			××		22 —
22.20 D			× × ×]
22.50 - 22.95 U			× × ×		
20.00			× × →		
23.00 D 23.00 - 23.50 B			×_×_×		23 —
			×_×_×		
23.70 D			\times		=
24.00 N=50 (5,8/5	50 for		<u>×_×</u> _×		24 —
285mm	1)		×-×-×		[]
24.50 - 25.00 B			××		_
			×		
			× × →		25 -
25.20 D			×_×_×		=
25.50 - 25.95 U			\times		-
			××		
26.00 D 26.00 - 26.50 B			××		26 —
			×-×-×		
26.70 D			×-^-×		
			××		-
27.00 ES N=50 (6,9/5	50 for		× × ×		27 —
27.50 - 28.00 B	1)		×_×_		1
2.166 25166 2			× × ×		=
			<u>×</u> _×		28
28.20 D			<u>×_×</u> _]
28.50 - 28.95 U			×_×_×		-
			××]
29.00 D 29.00 - 29.50 B			××		29 -
29.00 - 29.50 B			×××		=
20.70			^×		=
29.70 D			×_×_×		
30.00 ES				Continued on next sheet	30 —

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 4.5m bgl, rising to 3.8m bgl after 20 minutes. 4. SPT refusals recorded from 24.0m bgl. 5. Rotary coring undertaken between 30.0m bgl and 32.0m bgl with 0% recovery. 6. Standpipe installed to 6m: 1m plain, 5m slotted.



Location: CAMBRIDGE Level:	546557.54 - 258371.44 11.64 31/10/2022 - 09/11/2022	Hole Type CP Scale
	31/10/2022 - 09/11/2022	1:50
Client: RPMI RAILPEN Dates: 3	•	Logged By JKP
Well Water Strikes Depth (m) Type Results Depth (m) Legend	Stratum Description	
Strikes Depth (m) Type Results (m) (m)		
33.50 - 34.00 B		31 —
34.00 D		34 —
34.50 - 34.95 U	ery high strength at 34.5m bg	
35.00 D S S S S S S S S S S S S S S S S S S		35 -
35.70 D		
36.00 N=50 (7,10/50 for 255mm)		36 -
		37 =
37.20 D $\times \times $		-
37.50 - 37.95 U		
38.00 D B S S S S S S S S S S S S S S S S S S		38 —
38.70 D		
39.00 N=50 (8,10/50 for 225mm)		39 —
39.60 - 40.00 B		
40.00 ES 40.00 -28.36	End of borehole at 40.00 m	40

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 4.5m bgl, rising to 3.8m bgl after 20 minutes. 4. SPT refusals recorded from 24.0m bgl. 5. Rotary coring undertaken between 30.0m bgl and 32.0m bgl with 0% recovery. 6. Standpipe installed to 6m: 1m plain, 5m slotted.



GRC	G DUNDTE CONSULTING	СН				Во	reho	ole Log	Borehole N WBH11 Sheet 1 of	12
Projec	t Name:	PROJECT	OTTE		Project No. GRO-22165		Co-ords:	546647.22 - 258449.87	Hole Type CP	
Locati	on:	CAMBRID	GE	1			Level:	11.70	Scale 1:50	
Client:		RPMI RAI	LPEN				Dates:	31/10/2022 - 02/11/2022	Logged By JKP	у
Well	Water Strikes		1	n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	1	
		Depth (m) 0.20 - 0.40 0.40 - 0.80 0.50	Type B B ES	Results	0.10	11.60		MADE GROUND: Black tarmac. MADE GROUND: Light brown angus subangular fine to coarse gravel of lithologies including limestone.		- - - -
		0.80 - 1.20 1.00	B ES		0.70	11.00		Structureless CHALK composed of mottled brown firm gravelly silty clay weak low density angular to subang and chert. (Grade Dm).	y. Clasts are	1 -
		2.00 2.00	U D ES		2.00	9.70		Structureless CHALK composed of	cream firm	2 -
		2.00 - 2.50 2.50 2.50 - 2.95 2.50 - 3.00 3.00	B D B ES	N=12 (2,3/3,4,2,3)				silty gravelly clay with moderate cot Clasts are weak low density angula subangular of chalk with occasional (Grade Dm).	ır to	3 —
		3.50 - 3.95	U					Low strength at 3.5m bgl.		- - - -
		4.00 4.00 - 4.50 4.50 4.50 - 4.95	ES B	N=7 (2,3/1,2,2,2)						4 -
		5.00	ES							5 -
		5.50 - 6.00	В		6.00	F 70				-
		6.00 6.00 6.00 - 6.45	ES D	N=9 (1,1/1,2,3,3)	6.00	5.70	× × × × × × × × × × × × × × × × × × ×	Stiff dark grey laminated silty CLAY.		6 -
		7.00 7.00 - 7.50 7.50 - 7.95	D B U				× × × × × × × × × × × × × × × × × × ×			7 -
		8.00	D				X X X			8 -
		9.00	В	N=17 (3,2/3,4,5,5)			×			9 -
		9.00 - 9.45	D				X X X			-
Rema		10.00	ES				××	Continued on next sheet		10 -

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusals recorded from 27.0m bgl. 5. Standpipe installed to 6m: 1m plain, 5m slotted.



GROUNDTECH						Borehole No. WBH112				
	CONSULTING			F	roject No.		<u> </u>	ole Log	Sheet 2 of Hole Type	
	t Name:				RO-22165		Co-ords:	546647.22 - 258449.87	CP Scale	
Locati	on:	CAMBRID	GE ———				Level:	11.70	1:50	
Client		RPMI RAIL	PEN				Dates:	31/10/2022 - 02/11/2022	Logged B	У
Well	Water			n Situ Testing	Depth	Level	Legend	Stratum Description	ı	
	Strikes	Depth (m) 10.00 - 10.50	Type B	Results	(m)	(m)				
							×_×_×			_
		10.50 10.50 - 10.95	D U				×_×	High strength at 10.5m bgl.		_
		11.00	D				× × ×			11 —
		11.00 - 11.50	В				×_×_×			
							<u>×</u> _ <u>×</u>			
		40.00	_				×_^_×			1
		12.00 12.00	D	N=32 (4,6/7,9,8,8)			×——×			12 —
		12.00 - 12.45 12.50 - 13.00	D B				×_×_×			=
							×_×_×			=
							×			13 —
		12.50	_				×			
		13.50 13.50 - 13.95	D U				<u>×</u> <u>×</u> ×			=
		14.00	D				×_×_×	Becomes slightly gravelly of mudstone from	14.0m bal	14 —
		14.00 - 14.50	В				× × ×		Č	-
							×_×_×			-
		15.00	D				×_×_×			15 —
		15.00 15.00	ES	N=35 (5,7/8,8,9,10)			×			
		15.00 - 15.45 15.50 - 16.00	D B	11 00 (0,170,0,0,10,			×——×			
			_				×			
							×-×			16 —
		16.50	D				×			
		16.50 - 16.95	U				××			=
		17.00	D				<u>×</u> <u>×</u> ×			17 -
		17.50 40.00					×			
		17.50 - 18.00	В				×——×			
		18.00		N=42			× ×			18 —
		18.00 - 18.45	D	(5,6/10,11,11,10)			×_×_×			
							× × ×			
		19.00	D				×_×_×			10 =
		18.00	ט				×_×_×			19 —
		19.50 - 19.95	U				× ×			
							×			
Rema	rke	20.00	D				^	Continued on next sheet		20 —

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusals recorded from 27.0m bgl. 5. Standpipe installed to 6m: 1m plain, 5m slotted.



									Borehole N	О.
	G					Bo	reho	ole Log	WBH11	2
GRO	OUNDTE CONSULTING	CH					. •	5.5 _5	Sheet 3 of	5
Projec	t Name:	: PROJECT	OTTE		Project No.		Co-ords:	546647.22 - 258449.87	Hole Type	
1 10,00	, riamo	11100201	0111		GRO-22165		00 0140.	040047.22 200440.07	CP Scale	
Locati	on:	CAMBRID	GE				Level:	11.70	1:50	
Client:	:	RPMI RAII	LPEN				Dates:	31/10/2022 - 02/11/2022	Logged By JKP	y
Well	Water		s and	In Situ Testing	Depth	Level	Logond	Stratum Description		
vveii	Strikes	Dopui (iii)	Туре	Results	(m)	(m)	Legend			
		20.00	ES				×	Becomes very stiff and slightly sandy from	25.0m bgl.	-
		20.50 - 21.00	В				××			=
			_				× × →			=
		21.00		N=33 (5,5/5,7,10,1	1)		× × ×			21 —
		21.00 - 21.45	D				×××			=
		21.50 - 22.00	В				×_×_×			_
							××			3
							××			22 _
							×_×			_
		22.50 - 22.95	U				×	Very high strength at 22.5m bgl.		
							×			_
		23.00 23.00 - 23.50	D B				××			23 —
		23.00 - 23.50	В				××			=
							×			=
							× ×			3
		24.00		N=45 (5,6/10,12,11,12)			× × →			24 —
		24.00 - 24.45	D	(3,0/10,12,11,12)			^×			
		24.50 - 25.00	В				\times			_
							× ×			3
		25.00	ES				×_×_×			25 —
							×_×			=
		25.50	D				××			_
			_				×_×			_
		26.00 26.00 - 26.50	D B				××			26 —
							×			_
							× ×			=
		07.00					××			
		27.00 27.00	D	N=50			× ×			27 —
		27.00 - 27.45	D	(6,5/10,11,13,16)			× × ×			
]
		28.00	D				× × ×			28 —
		28.00 - 28.50	В				× ×			-
		28.50 - 28.95	U				×_×_×			1
		20.00					××			‡
		29.00	D				××			29 —
		29.00 - 29.50	В				××			<u> </u>
							x_ <u>×</u> _x]
							××			=
		30.00	ES				<u>×</u>	Continued on most object		30 —
Rema	rks	<u> </u>	I			<u> </u>		Continued on next sheet		

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusals recorded from 27.0m bgl. 5. Standpipe installed to 6m: 1m plain, 5m slotted.



	<u></u>								Borehole N	lo.
	9					Bo	reho	ole Log	WBH11	12
GRO	OUNDTE CONSULTING	CH						2.0 _09	Sheet 4 of	5
Projec	t Name	: PROJECT	OTTE	:R	Project No. GRO-22165		Co-ords:	546647.22 - 258449.87	Hole Type CP	Э
Locati	on:	CAMBRID	GE				Level:	11.70	Scale 1:50	
Client:	:	RPMI RAII	LPEN				Dates:	31/10/2022 - 02/11/2022	Logged B	y
Well	Water	Samples	and l	n Situ Testing	Depth	Level	Legend	Stratum Description		
VVC11	Strikes	Depth (m)	Туре	Results	(m)	(m)	Legend	<u> </u>	·	
		30.00		N=50 (7,11/50 fo 295mm)	or		×			-
		30.00 - 30.45 30.50	D D	,			×]
		30.50	В				× ×			=
							\times			31 —
							× × ×]
		31.50 - 31.95	U				^X			1
		-					×			
		32.00 - 32.50	В				× × ×	Contains angular to subangular fine to coal	roo gravel of	32 —
							× × ×	mudstone from 32.0m bgl.	'Se graver or]
		32.50	D				×_×_×			_
							<u>××</u>			
		33.00		N=50 (8,10/50 fc	or		×_×_			33 —
		33.00 - 33.45	D	260mm)			×_×_			
		33.50 - 34.00	В				×- <u>×</u> -×			_
							X-^-X			
							××			34 —
							×			=
		34.50	D				××			
		34.50 - 34.95	U				× ×			
		35.00	D				\times			35 —
		35.00 35.00 - 35.50	ES B				×			_
							× × ×			
							^X			-
		36.00		N=50 (6,8/50 for	r		× × ×			36 _
		36.00 - 36.45	D	220mm)			× ×			
		36.50	D				x_x_			=
							×_×_			
							××			37 _
							×_×_			=
		37.50	D				××			
		37.50 - 37.95	U				x			-
							×			38 _
							XX			1 1
		38.50	D				×			
		38.50 - 39.00	В				××			=
		39.00		N=50 (7,10/50 fc	or		×			39 -
		39.00 - 39.45	D	190mm)			× ×			_
							× ×			_
							× × →			
		40.00	D		40.00	-28.30	^—×-	Continued on next sheet		40 —
Rema	rks									

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusals recorded from 27.0m bgl. 5. Standpipe installed to 6m: 1m plain, 5m slotted.



GRO	G DUNDTE CONSULTING	СН			Во	reho	ole Log	Borehole No. WBH112 Sheet 5 of 5		
Projec	t Name:	PROJECT	OTTER		Project No. GRO-22165		Co-ords:	546647.22 - 258449.87	Hole Type CP	
Locati	on:	CAMBRID	GE				Level:	11.70	Scale 1:50	
Client	:	RPMI RAI	LPEN				Dates:	31/10/2022 - 02/11/2022	Logged By JKP	
Well	Water Strikes			Situ Testing	Depth (m)	Level (m)	Legend	Stratum Descriptio	n	
		Depth (m) 40.00	Type	Results	()	()		End of borehole at 40.00 i	m _	
									41 —	
									42 -	
									43 —	
									- - - -	
									44 -	
									45 —	
									-	
									46 -	
									- - - - 47 —	
									-	
									48 -	
									49 —	
									48	
Rema	rke								50	

Remarks

1. Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. SPT refusals recorded from 27.0m bgl. 5. Standpipe installed to 6m: 1m plain, 5m slotted.



	<u> </u>								Borehole N	0.
	9					Bo	reho	ole Log	WBH11	3
GRO	OUNDTE	CH					. •	2.0 _09	Sheet 1 of	4
Projec	t Name:	PROJECT	OTTE	R	Project No. GRO-22165		Co-ords:	546552.86 - 258561.75	Hole Type CP)
Locati	on:	CAMBRID	GE				Level:	12.81	Scale 1:50	
Client:		RPMI RAII	LPEN				Dates:	03/11/2022 - 08/11/2022	Logged By	y
Well	Water	Samples	and I	n Situ Testing	Depth	Level	Legend	Stratum Description	1	
	Strikes	Depth (m)	Туре	Results	(m)	(m)	3	•		
		0.10 - 0.60 0.15 - 1.50 0.30	B ES ES		0.09	12.72 12.61		MADE GROUND: Black tarmac MADE GROUND: Brown clayey sar to subangular fine to coarse gravel lithologies including limestone. MADE GROUND: Brown clayey fine	of mixed e sand and	
		0.80 0.90 1.00 - 1.50	ES ES B	N=5 (1,1/1,1,2,1)	0.85	11.96		angular to subangular fine to coarse mixed lithologies including chert and Loose light brown gravelly medium SAND. Gravel is angular to subang medium of chert and quartzite.	d quartzite. to coarse	1 -
		1.70 1.90 2.00 - 2.50	D ES B	, ,						2 —
		2.50 2.50 2.70 2.70 3.00 - 3.50	ES D ES B	N=4 (1,1/1,1,1,1)	2.60	10.21		Firm light brown to light grey very so CLAY. Gravel is angular to subangular coarse of chert, quartzite and low do	lar fine to	3 -
		3.50 3.70 3.70 4.00 - 4.60	D ES B	N=3 (1,1/1,1,0,1)						4 —
		4.50 4.70 5.00 - 5.50	ES B	N=12 (6,4/4,4,2,2						
		5.40 5.50 - 6.00 5.70	ES B ES		5.50	7.31		Structureless CHALK composed of silty gravelly clay. Gravel is weak lo		5 —
		6.00 6.00	ES	N=15 (1,3/3,3,4,5	5.90	6.91	× × × × × × × × × × × × × × × × × × ×	angular to subrounded. (Grade Dm) Very stiff dark grey silty laminated C).	6 —
		6.60 - 7.00 6.70 7.00	B D D				× × × × × × × × × × × × × × × × × × ×			7 —
		7.50 - 7.95	U				× × × ×	High strength at 7.5m bgl		-
		8.00 8.00 - 8.50	D B				× × × × × × × × × × × × × × × × × × ×	I		8 -
		9.00 9.00	D	N=20 (2,3/3,4,7,6)		×			9 —
		9.50 - 10.00	B D				×	Continued as a suit at the state of		10 —
Rema	rko							Continued on next sheet		

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 7m: 1m plain, 6m slotted.



A									Borehole No.	٦
	9					Bo	reho	ole Log	WBH113	
GRO	OUNDTE	CH					. 0110	olo Log	Sheet 2 of 4	
Projec	t Name:	PROJECT	OTTE		Project No.		Co-ords:	546552.86 - 258561.75	Hole Type	
					GRO-22165				CP Scale	-
Locati	on:	CAMBRID	GE				Level:	12.81	1:50	
Client	:	RPMI RAIL	PEN				Dates:	03/11/2022 - 08/11/2022	Logged By	
Well	Water		and I	n Situ Testing	Depth	Level	Legend	Stratum Description		
vveii	Strikes	Dopui (III)	Туре	Results	(m)	(m)	Legend	Stratum Description		
		10.00	ES				××			-
		10.50 - 10.95	U				××			=
							×			-
		11.00 11.00 - 11.50	D B				×_×_×		11	1
							×			-
							× × ×			1
		12.00	D				×_×_×		12	_
		12.00		N=27 (4,5/6,7,7,7)		\times			-
		12.50 - 13.00	В				×_×_×			-
							×			-
		13.00	D				× × ×		13	
		13.50 - 13.95	U				×_×_×			_
		13.30 - 13.93					<u>×</u> _ <u>×</u>			-
		14.00	D				×_×_×		14	1
		14.00 - 14.50	В				×			1
							× × ×			=
							×_×_×			-
		15.00 15.00	D ES				<u>×_×</u>		15	=
		15.00 15.50 - 16.00	В	N=23 (3,4/5,5,6,7)		×-×-×			=
		10.00					× × ×			1
		16.00	D				×_×_		16	4
							× × ×			-
		16.50 - 16.95	U				<u>×</u> _ <u>×</u>	High strength at 16.5m bgl.		-
		47.00	_				×-^-×		47	=
		17.00 17.00 - 17.50	D B				× × →		17	=
							×_×_×			_
							××			=
		18.00	D	N-05 (4.7/7.0.0.4			×_×_×		18	-
		18.00		N=35 (4,7/7,8,9,1	')		×			1
		18.50 - 19.00	В				××			1
		19.00	D				×_×_×		40	_
		19.00	ا تا				×		19	=
		19.50 - 19.95	U				X_X_X			=
							× × ×			1
		20.00	D				×—x-	Continued on next sheet	20	1
Rema	rks									1

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 7m: 1m plain, 6m slotted.



GROUNDTECH CONSULTING						WBH113 Sheet 3 of 4			
Projec	t Name:				Project No. GRO-22165		Co-ords:	Co-ords: 546552.86 - 258561.75	Hole Type CP Scale
Locati	on:	CAMBRIDGE					Level:	12.81	1:50
Client:		RPMI RAII	LPEN				Dates:	03/11/2022 - 08/11/2022	Logged By
Well	Water Strikes			n Situ Testing	Depth (m)	Level (m)	Legend	Stratum Description	n
	Otrikoo	Depth (m) 20.00	Type ES	Results	(111)	(111)	×_^		
		20.00 - 20.50	В				× × ×		
							× × ×		
							\times		
		21.00 21.00	D	N=36 (4,6/8,8,10,10	,,		××		21 =
		21.00		11-30 (4,0/6,6,10,10	"		××		
		21.50 - 22.00	В				×-×-×		_
							×-^-×		
		22.00	D				××		22 —
							<u>×</u>		
		22.50 - 22.95	U				× ×		
			_				× × ×		
		23.00 23.00 - 23.50	D B				× × →		23 —
							× × ×		_
							× × →		
		04.00					× × ×		
		24.00 24.00	D	N=50 (9,10/50 for			××		24 —
		24.50 - 25.00	_ B	265mm)			××		
		24.50 - 25.00	В				××		
		25.00	D				×_×_×		25
		25.00	ES				×_×		25 —
		25.50 - 25.95	U				××		
		20.00 - 20.00					××		-
		26.00	D				××		26 —
		26.00 - 26.50	В				× ×		
							× × →		
							× × ×		
		27.00	D				× × ×		27 —
		27.00		N=41 (6,8/9,10,11,1	1)		×_×_		
		27.50 - 28.00	В				<u>×</u> _×		
							<u>×_×</u>		
		28.00	D				<u>×_×</u>		28 —
							××		
		28.50 - 28.95	U				××		
							××		
		29.00	D				× ×		29 —
		29.00 - 29.50	В				<u>×</u> _ <u>×</u>		-
							× × ×		
							× × →		-
		30.00	D					Continued on next sheet	30 -
Rema	rks								

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 7m: 1m plain, 6m slotted.



									Borehole No.
©						WBH113			
GRO	DUNDTE CONSULTING	CH					0110	ole Log	Sheet 4 of 4
D : AN DDOUGOT OTTED				Project No.		Co-ords:	546552.86 - 258561.75	Hole Type	
			GRO-22165		Co-ords:	540552.80 - 258501.75	СР		
Location: CAMBRIDGE					Level:	12.81	Scale 1:50		
Client: RPMI RAILPEN						Dates:	03/11/2022 - 08/11/2022	Logged By	
Well	Water Strikes	Samples and In Situ Testing			Depth	Level	1		
		Depth (m)	Туре	Results	(m)	(m)	Legend	Stratum Description	
	3	30.00 30.00	ES	N=44 (5,9/9,11,12,12)			×		
		30.50 - 31.00	.50 - 31.00 B				×——×		
		31.00	D				×x		31 —
		31.50 - 31.95	U				××		
		20.00					×		
		32.00 32.00 - 32.50	D B				×——×		32 —
							× × ×]
							×		
		33.00	D	N=50 (4,9/9,12,14,15)			××		33 —
		33.00					×-×-×]
		33.50 - 34.00	В				×		- 1
							× ×		
		34.00	D				× × ×		34 —
							× × ×		
		34.50 - 34.95	U				×_×_×	Very high strength at 34.5m bgl	
		35.00	D				×_×_×		25 -
		35.00	ES				×-×-×		35 —
		35.00 - 35.50	В				×-^-×		
							×x		
		36.00 D	D		13)		×—_×		36 —
			N=44 (5,8/9,1°	N=44 (5,8/9,11,11,1			×_×_×]
	36	36.50 - 37.00	В				×_×_×		-
							×_×_×		=
							<u>×_×</u> _×		37 —
							×-×-×		
		37.50 - 37.95	U				×		
							××]
		38.00 38.00 - 38.50	D B				× × ×		38 —
							× × ×		
							× × ×]
		39 00	D				×_×_×		39 —
		39.00 39.00		N=43			×_×_×		39 _
		39.50 - 40.00	В	(6,9/9,10,12,12)			x		
							×_×_×		
		40.00	ES		40.00	-27.19	××	End of borehole at 40.00 m	40 —
Rema	rks	I		I.	1		1		

^{1.} Location cleared for utilities by a specialist using a CAT and GPR. 2. Hand excavated inspection pit undertaken to 1.20m bgl. 3. Groundwater encountered at 3.5m bgl. 4. Standpipe installed to 7m: 1m plain, 6m slotted.

