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Retrieved from the Queensland Geotechnical Database http://qgd.org.au/

ARUP	Trial Pit Log	Job No. 249964	T-TP19	Page 1	of 1
		Contractor			
			Ground Level (m)	Date	
Port Drive Upgrade			3.05	31-Au	g-16

Sar	nples & te	sts		Strata log												
Depth	Sample Type Ref	Test Result	Red. Level	Legend	ness)	Description	Stratum	Geology								
- 0.14-0.50	В		2.9		(0.14)	SAND (SW) fine to coarse grained, pale brown, with silt, with gravel, with organics (rootlets and vegetation), dry, loose.		ТОР								
- - -					-	SAND (SP) fine to medium grained, pale yellow brown, trace clay, with shell fragments, slightly moist, loose.										
0.50-1.05	В		-		(0.91)	0.50 Sand is moist, with clay		FILL								
-					[
_			2.0	11,111,111	- 1.05											
						Trial pit completed at 1.05m depth										
- - -					- - -											
- - -			-		-											
-					-											
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- -					-											
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			l													

Remarks

Local coords: MGA coords: 516515.1E,6967752.52N Ground level = 3.05mOD Investigation/cluster ref: Main

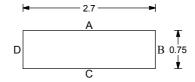
Plant: 8T Crew: MF Backfilled: 31-Aug-16

Groundwater

No groundwater encountered

Shoring/Support: None

Stability: Stable



Logged by: GCP Database check:

AR	UP				DΥ	'N	AM		C TE									ΛC	ЛE	ΞTΙ	ER	}						Test No. TP19										
Proje	ect Name	Port Drive Up	grac	de																						Sł	Sheet 1 of 2											
R.L. Ground (m)		3.05					R.L.		ishe evel			face	Э								Easting / Northing																	
Depth below surface (m)	Blows/ 100mm (n)	Cumulative Blows (Σn)		Graphic Log																																		
0.0 - 0.1	()	(211)		П	T	П	П	h		П	╁	П		П	T	T	П	╁		T	H	П	П	╁	П	T	П	П		П	П	П	П					
0.1 - 0.2				Ħ	Ħ	$\dagger\dagger$	Ħ	T		Ħ	T	H	t		Ħ	t	Ħ	\dagger	Ħ			Ħ	T	t	Ħ		Ħ	$\dagger \dagger$			\top	Ħ	\dagger					
0.2 - 0.3			T		Ħ	Ħ	Ħ	Ħ		Ħ	T	Ħ	t	\dagger	Ħ	t	Ħ	T	Ħ	T	T	Ħ	Ħ	T	Ħ		Ħ	$\dagger \dagger$		Ħ	1	Ħ	\dagger					
0.3 - 0.4					Ħ	Ħ	TT	П		Ħ		Ħ					Ħ	T	Ħ				Ħ	T	Ħ		Ħ	П			T	Ħ						
0.4 - 0.5																												П				П						
0.5 - 0.6																												\prod				П						
0.6 - 0.7																																						
0.7 - 0.8					Ш																																	
0.8 - 0.9				Ш	Ц	Ш	Ш			Ш		Ц					Ш		Ш			Ш	Ш		Ц		Ц	Ш			┵	Ц	Ш					
0.9 - 1.0				Ш	Ш	Ш	$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Ш		Ш	1	Ш					Ц	1	Ш			Ш	Ш	┸	Ц		Ц	Ш		Ш	4	Ц	Ш					
1.0 - 1.1	1	1			Ц	Ш	$\downarrow \downarrow$	Ш		Ш	-	Ш					Ш	1	Ш			Ш	Ш	_	Ш		Ц	Ш			\bot	Ц	Ш					
1.1 - 1.2	4	5					$+\!\!+\!\!\!+$	Н		Н	1	\blacksquare	4	\bot	Ц	1	Н	-			4	Н	\blacksquare	╀	Н		$oxed{oldsymbol{ec{ec{ec{ec{ec{ec{ec{ec{ec{ec$	Ц			+	${m m eta}$	Щ					
1.2 - 1.3	7	12					$+\!\!+\!\!\!+$	H	4	H	-	\dashv	-	\perp	H	-	H	-	H		+	H	\mathbb{H}	╀	H		H	\dashv	_	+	+	₩	+					
1.3 - 1.4	7	19					┵┼	H		H	+	H	+	+	H	+	H	+	H		+	H	+	╀	H		H	\dashv		+	+	₩	+					
1.4 - 1.5 1.5 - 1.6	8 7	27 34					╂┼	Н	+	H	+	Н	+	+	H	+	H	+	Н		+	Н	Н	╂	H		Н	${\mathbb H}$	\perp	+	+	${\it H}$	+					
1.6 - 1.7	8	42						+	+	H	╁	H	+	+	H	+	H	╁	H		+	H	$^{+}$	╁	H		H	\dashv		+	+	${\it H}$	+					
1.7 - 1.8	11	53							+	H	-	H	+	+	H	+	╁╁	╂	H		+		H	╁	H		H	\forall	-	+	\vdash	${}^{\rm H}$	+					
1.8 - 1.9	13	66								Н	+	H	+	+	Ħ	+	H	+	H		+	H	$^{+}$	╫	H		H	\forall		+	\vdash	H	+					
1.9 - 2.0	11	77									╁	H		H	Ħ		H	╁	H	+	+	H	Ħ	╁	Ħ		H	\forall	H	\dagger	+	Ħ	\forall					
2.0 - 2.1	12	89								Ħ	t	Ħ	t	Ħ	Ħ	t	Ħ	╁	Ħ	H	Ħ	Ħ	Ħ	t	Ħ		Ħ	Ħ		Ħ	\top	Ħ	\dagger					
2.1 - 2.2	10	99								Ħ	T	Ħ		\parallel	T		Ħ	T	Ħ		T	Ħ	T	t	Ħ		Ħ	Ħ		Ħ	\top	Ħ	\dagger					
2.2 - 2.3	7	106								П	T	Ħ					Ħ	T	Ħ		T	Ħ	Ħ	T	Ħ		П	П		T	T	П	T					
2.3 - 2.4	5	111					Ħ																	T			П	П			īŤ	П						
2.4 - 2.5	4	115																										П			T	П						
2.5 - 2.6	2	117																													Ш							
2.6 - 2.7	4	121																																				
2.7 - 2.8	4	125			Ц	Ц	Ш	Ш	Щ	Ш		Ц	1	Ш	Ц		Ц		Ц	\perp	Щ	Ш	Ц		Щ		Ц	Ш		Ш	$oldsymbol{\perp}$	Ц	Ш					
2.8 - 2.9	4	129			Ц	Ц	\coprod	Ш	Щ	Ц	1	\coprod	\downarrow	Ц	Ц	ļ	Ц	┸	Ц	\perp	Ц	Ц	Ц	╽	Ц	1	Ц	Щ		Ш	\bot	\coprod	Ш					
2.9 - 3.0	5	134				Ц	$\downarrow \downarrow$	Ш	$oxed{\bot}$	\coprod	1	\coprod	\downarrow	Ш	$oxed{\downarrow}$	╀	\coprod	_	Ц	\perp	$oldsymbol{\perp}$	Ц	Ц	╀	\coprod	1	Ц	Щ	ot	\coprod	\bot	$\!$	Ш					
3.0 - 3.1	6	140				\sqcup	$+\!\!\!+$	Н	$oldsymbol{\perp}$	${f H}$	╀	\sqcup	4	\mathbb{H}	$oxed{\downarrow}$	╀	${m H}$	_	\sqcup	\perp	$oldsymbol{\perp}$	Н	$oldsymbol{ee}$	╀	$oldsymbol{arphi}$	\downarrow	$oldsymbol{\sqcup}$	\coprod	4	+	+	${\downarrow \downarrow}$	\mathbb{H}					
3.1 - 3.2	6	146			f	H	$+\!\!+$	Н	$oxed{+}$	${f H}$	+	\dashv	+	\mathbb{H}	$oxed{\perp}$	\downarrow	$oldsymbol{arphi}$	+	${f H}$	+	$oldsymbol{+}$	${f H}$	\dashv	╀	$oxed{+}$	\bot	$oldsymbol{ert}$	ota	4	\mathbb{H}	+	${m +}$	\mathbb{H}					
3.2 - 3.3	4	150			¥	${f H}$	$+\!\!+$	Н	dash	H	+	\dashv	+	\mathbb{H}	dash	+	${m H}$	+	H	+	$oldsymbol{+}$	H	\dashv	+	${f H}$	+	$oldsymbol{+}$	\dashv	+	+	+	${\color{red} +}$	+					
3.3 - 3.4	5	155			Ħ	ert	$+\!\!+$	H	dash	${\it H}$	+	H	+	\mathbb{H}	dash	+	${\it H}$	+	H	+	$oldsymbol{+}$	H	H	╀	${f H}$	+	${f H}$	\dashv	+	+	+	${\it H}$	\mathbb{H}					
3.4 - 3.5	4 5	159			⊌	${f H}$	$+\!\!+$	Н	+	${\it H}$	+	H	+	+	dash	+	${\mathbb H}$	+	H	+	$oldsymbol{+}$	${\mathbb H}$	H	╁	${f H}$	+	${\sf H}$	\dashv	+	H	+	${\it H}$	+					
3.5 - 3.6 3.6 - 3.7	4	164 168			Ħ	${\it H}$	$+\!\!+$	H	+	${\it H}$	╁	\forall	+	+	${\sf H}$	+	${\sf H}$	+	H	+	+	H	\forall	╁	₩	+	${f H}$	\dashv	+	+	+	${\it H}$	+					
3.7 - 3.8	5	173			╽	${}^{+}$	$+\!\!+$	Н	+	H	+	${f H}$	+	+	${\sf H}$	+	${}^{+}$	+	H	+	+	H	${f H}$	+	${\rm H}$	+	${\sf H}$	${}$	+	+	十	${\it H}$	+					
3.8 - 3.9	6	179				H	$+\!\!\!+$	Н	+	${\sf H}$	+	\forall	+	+	H	\dagger	H	+	H	+	+	H	\forall	+	${}^{\dag}$	+	${\sf H}$	${}_{H}$	+	+	+	${\dagger}$	\forall					
3.9 - 4.0	9	188						H	\dashv	H	\dagger	H	+	H	H	\dagger	${\dagger\dagger}$	+	H		+	H	\forall	\dagger	${\rm H}$	+	H	\forall	+	+	+	$\dag \dag$	+					
Comments		.00								<u> </u>		1 1			LL		1_1		11	V	/lade	R۱ ج		(GCF	,	<u> </u>	Dat	e e		30/0)8/2	016					
																					gure				ال			Job			<i>50/</i> (,0,2	510					
																														249	996	4						

ARI	UP				D	Υ	'N.	Αľ	МI								NE JL			 NC	ЛE	ΞT	EF	₹							Test No. TP19									
Project Name	2	Port Drive Up		ado	<u> —</u>			_	_		_	_	_		_	_	_		_											+	 She		2 of		—					
R.L. Ground		3.05			_				—									Da	atur	m																				
depth below	Blows/	Cumulative	_																								_Ea	astii	ing /	/ No	orth	ing	—							
surface (m)	100mm (n)	Blows (Σn)	L			_		_					_				_		Gra	phi	c L	.og	_							_			_			_				
4.1 - 4.2	19	207																I	\prod	t	П	I	I	\prod	I	\prod	I	П	I		I		I	I]				
4.2 - 4.3			Д	Ţ	П	Ţ	Ц	floor	\coprod		Ţ	П	Ţ	\prod			П		П	Ţ	\prod	ightharpoonup	\prod	\prod	ļ	\prod	ļ	П	ightharpoonup	Ц	ļ	Д	\prod	ightharpoonup	\prod]				
4.3 - 4.4		<u> </u>	Ц	\downarrow	Ц	╀	Ц	\perp	Ц	\perp	\downarrow	Ц	\downarrow	Ц	4	\perp	Ц	igspace	Ц	퇶	Ц	\bot	$\downarrow \downarrow$	Щ	4	\coprod	\bot	Ц	\bot	Ц	\bot	4	Ц	\downarrow	Ц	╛				
4.4 - 4.5	<u> </u>	<u> </u>	$oldsymbol{\downarrow}$	\downarrow	\coprod	4	$\downarrow \downarrow$	+	$\downarrow \downarrow$	$oldsymbol{\downarrow}$	\downarrow	${f f eta}$	\downarrow	\coprod	4	\perp	${f f eta}$	\downarrow	${f f eta}$	1	\coprod	\bot	ot	$\downarrow \downarrow$	4	igert	4	igoplus	4	igped	4	\coprod	\coprod	\downarrow	\coprod	4				
4.5 - 4.6	 	<u> </u>	4	\downarrow	$\!$	4	\coprod	+	$\!$	$oldsymbol{\perp}$	\downarrow	${f \parallel}$	╀	\coprod	4	$oldsymbol{\perp}$	\sqcup	ig	${f m eta}$	1	\sqcup	\bot	$\!$	\coprod	4	${f ar{phantom{\phantom{phantom{\phantom{phantom{\p$	\bot	${oxed{\mu}}$	\downarrow	igert	\bot	4	\coprod	+	u	4				
4.6 - 4.7	 	<u> </u>	4	+	${f H}$	╀	\dashv	+	$\!$	\dashv	+	ert	+	\dashv	\dashv	#	${f H}$	+	${f H}$	╀	${f H}$	+	ert	$\dashv \downarrow$	+	${f H}$	+	${f H}$	+	arpropto	+	${f H}$	\dashv	+	otag	41				
4.7 - 4.8 4.8 - 4.9		 	${f H}$	+	₩	+	\dashv	+	\dashv	+	+	ert	+	\dashv	+	╫	${f H}$	+	${\it H}$	╀	ert	+	$oldsymbol{+}$	$\dashv \vdash$	+	${f H}$	+	${f H}$	+	arphi	+	${\it H}$	\mathbf{H}	+	${\mathbb H}$	41				
4.8 - 4.9		 	${\sf H}$	+	₩	+	${\it H}$	+	H	+	+	${\sf H}$	+	${\mathbb H}$	+	+	${\sf H}$	+	H	╂	${\mathbb H}$	+	${\sf H}$	+	+	${\sf H}$	+	${\it H}$	+	${\sf H}$	+	H	${f H}$	+	${\mathbb H}$	+				
5.0 - 5.1		 	H	+	H	+	${\mathsf H}$	十	\forall	+	+	H	+	${\sf H}$	\dagger	+	H	+	H	╁	H	+	${\sf H}$	+	+	H	+	H	+	H	+	H	\dagger	十	H	1				
5.1 - 5.2			H	+	H	\dagger	$\dagger\dagger$	十	\forall	\dag	\dagger	H	\dagger	$\dag \dag$	\dagger	$\dag \dag$	H	\dagger	H	╁	H	+	$\dag \uparrow$	$\dag \dag$	\dagger	Ħ	+	H	+	H	+	H	$\dagger \dagger$	+	\dagger	۱ ۲				
5.2 - 5.3			H	\dagger	Ħ	t	$\dagger \dagger$	+	$\dagger \dagger$	Π	t	H	t	$\dagger\dagger$	T	$\dagger \dagger$	H	\dagger	Ħ	Ť	Ħ	+	Ħ	$\dagger \dagger$	\dagger	Ħ	+	H	\dagger	Ħ	+	Ħ	$\dagger \dagger$	†	Ħ	۱ 🕇				
5.3 - 5.4			IT	T	Ħ	T	$\dagger \dagger$	1	\forall	巾	T	Ħ	T	$\dagger \dagger$	T	$\dagger \dagger$	П	T	Π	Ť	$\dagger \dagger$	\dagger	$\dagger \dagger$	$\dagger \dagger$	T	Ħ	T	Ħ	\dagger	Ħ	T	ΙŢ	\dagger	\top	\prod	11				
5.4 - 5.5				I	П	I	П	I			I	П	I	\prod	I	\blacksquare		Ţ	П	I		I		\prod	I	П	I	П	I		I	Ц	I	I]				
5.5 - 5.6				Ţ	П	l	\coprod	Ţ	\coprod		Ţ		Ţ	\prod			\prod						\prod		l			\prod	l			Д	\prod	Ţ		ן [
5.6 - 5.7			Ц	\downarrow	Ц	Ţ	Ц	1	Ш	Ц	ļ	Ц	ļ	Ш	4	Ш	Ц		Ц	ļ	Ц	1	\coprod	Ш	Ţ	Ц	Ţ	Ц	1	Ц	Ţ	Ц	Ц	1	Ц					
5.7 - 5.8		<u> </u>	Ц	\downarrow	Ц	╀	Ц	4	Ц	\perp	\downarrow	Ц	\downarrow	Ц	4	\perp	Ц	igspace	Ц	Ļ	Ц	\bot	$\downarrow \downarrow$	Щ	4	\coprod	\bot	Ц	\bot	Ц	\bot	4	Ц	\downarrow	Ц	┦╽				
5.8 - 5.9	 	<u> </u>	4	\downarrow	$\!$	╀	\coprod	+	$\!$	$oldsymbol{\perp}$	\downarrow	${f \parallel}$	╀	\coprod	4	$oldsymbol{\perp}$	\sqcup	ig	${f m eta}$	1	\sqcup	\bot	$\!$	\coprod	4	${f ar{phantom{\phantom{phantom{\phantom{phantom{\p$	\bot	${oxed{\mu}}$	\downarrow	igert	\bot	4	\coprod	+	u	4				
5.9 - 6.0	 	<u> </u>	$oldsymbol{arphi}$	$oldsymbol{\downarrow}$	${f H}$	+	\dashv	+	$\!$	\dashv	\dotplus	ert	+	\dashv	\dashv	+	${f H}$	+	ert	╀	${f H}$	+	ert	$\dashv \downarrow$	+	${f H}$	+	${f H}$	+	arpropto	+	${f H}$	\coprod	+	${f H}$	41				
6.0 - 6.1 6.1 - 6.2		 	${f H}$	+	₩	+	${\it H}$	+	H	+	+	${\it H}$	+	\dashv	+	#	${\sf H}$	+	H	╀	${f H}$	+	ert	$\dashv \vdash$	+	${\mathbb H}$	+	H	+	${f H}$	+	${\it H}$	$m{+}$	+	${\mathbb H}$	41				
6.2 - 6.3		 	${\mathbb H}$	+	₩	╁	${\it H}$	+	H	+	+	${\it H}$	+	${\it H}$	+	+	${\sf H}$	+	${\it H}$	╂	${\mathbb H}$	+	${f H}$	+	+	${\mathbb H}$	+	${\it H}$	+	${\mathbb H}$	+	H	${}^{\rm H}$	+	H	+				
6.3 - 6.4		 	H	+	${}^{\dag}$	+	\forall	+	\forall	+	+	${\it H}$	+	${\it H}$	+	+	H	+	${\it H}$	╁	${}^{\rm H}$	+	${\sf H}$	${}^{\dag \dag}$	+	${\sf H}$	+	${\sf H}$	+	H	+	H	\dag	+	${}^{\rm H}$	+				
6.4 - 6.5			H	+	H	\dagger	$\dagger\dagger$	十	\forall	\dag	\dagger	H	\dagger	$\dag \dag$	\dagger	$\dag \dag$	H	\dagger	H	╁	$\dag \dag$	+	$\dag \uparrow$	$\dag \dag$	\dagger	Ħ	+	H	+	H	+	H	$\dagger \dagger$	+	\dagger	1				
6.5 - 6.6			H	\dagger	Ħ	T	$\dagger \dagger$	+	$\dagger \dagger$	Π	\dagger	H	t	$\dagger \dagger$	T	$\dagger \dagger$	H	t	Ħ	Ť	Ħ	+	Ħ	$\dagger \dagger$	\dagger	Ħ	\dagger	H	+	Ħ	\dagger	Ħ	\dagger	†	Ħ	11				
6.6 - 6.7			П	T	Ħ	T	Ħ	十	Π	П	T	Π	1	Ħ	T	\forall	П	T	Π	Ť	Ħ	\top	Π	\top	T	Ħ	\top	П	T	Ħ	\top	П	T	T	П	11				
6.7 - 6.8				Ţ	П	I	П	I			Ţ	П	I		I		П		П	Ţ	П	I			I	П	I	П	I		I		I	I]				
6.8 - 6.9			Ц	Ţ	П			I	\prod		L	П		\prod			\prod		П				П									П		I						
6.9 - 7.0			Ц	\downarrow	Ц	Ţ	Ц	1	Ш	Ц	\downarrow	Ц	ļ	Ш	4	Ш	Ц		Ц	ļ	Ц	1	\coprod	Ш	Ţ	Ц	1	Ц	1	Ц	1	Ц	Ц	1	Ц					
7.0 - 7.1		<u> </u>	Ц	\downarrow	Ц	1	\coprod	+	Ц	4	igspace	Ц	\downarrow	Ц	4	Ш	Ц	$igl\downarrow$	Ц	╀	Ц	4	oppu	\coprod	4	Ц	4	Ц	4	Ц	4	4	\coprod	4	\sqcup	4				
7.1 - 7.2	 	<u> </u>	$oldsymbol{\mu}$	\downarrow	H	+	${f H}$	+	$\!$	dash	\downarrow	${f H}$	\bot	$oldsymbol{arphi}$	\dashv	$\downarrow \downarrow$	${f H}$	+	ert	4	igert	+	$oldsymbol{arphi}$	\dashv	+	igapha	+	${oldsymbol{arphi}}$	4	$igdate{}$	+	$oldsymbol{\mu}$	\coprod	+	${f H}$	41				
7.2 - 7.3		 	H	+	H	+	${\color{blue}+}$	+	\dashv	dash	+	dash	+	${\mathbb H}$	+	\dashv	H	+	dash	╀	${f H}$	+	╀	+	+	${f H}$	+	${f H}$	+	arpropto	+	${f H}$	\dashv	+	H	41				
7.3 - 7.4 7.4 - 7.5		 	${f H}$	+	${f H}$	+	${\it H}$	+	\mathcal{H}	${} +$	+	${\mathbb H}$	+	${\mathbb H}$	+	+	${\sf H}$	+	${\mathbb H}$	╀	${\mathbb H}$	+	╁	+	+	${\mathbb H}$	+	${f H}$	+	${f H}$	+	${\sf H}$	${\mathbb H}$	+	H	41				
7.4 - 7.5		 	${\mathbb H}$	+	₩	╁	${\it H}$	+	H	+	+	${\it H}$	+	${\it H}$	+	+	${\sf H}$	+	${\it H}$	╂	${\mathbb H}$	+	${f H}$	+	+	${\mathbb H}$	+	${\it H}$	+	${\mathbb H}$	+	H	${}^{\rm H}$	+	${\mathbb H}$	+				
7.6 - 7.7		 	H	+	${}^{\dag}$	+	\forall	+	\forall	+	+	${\it H}$	+	${\it H}$	+	+	H	+	${\it H}$	╁	${}^{\rm H}$	+	${\sf H}$	${}^{\dag \dag}$	+	${\sf H}$	+	${\sf H}$	+	H	+	H	\dag	+	${}^{\rm H}$	+				
7.7 - 7.8			H	+	H	\dagger	$\dag \dag$	十	\forall	十	\dagger	H	\dagger	$\dag \dag$	\dagger	$\dag \dag$	H	\dagger	H	╁	$\dag \dag$	+	$\dag \uparrow$	$\dag \dag$	\dagger	H	+	H	+	H	+	H	$\dagger \dagger$	+	H	1				
7.8 - 7.9			H	\dagger	Ħ	\dagger	Ħ	+	\dagger	十	\dagger	H	\dagger	$\dagger \dagger$	十	\dag	H	\dagger	H	t	Ħ	+	H	$\dagger \dagger$	\dagger	Ħ	+	H	+	H	+	Ħ	#	\dagger	Ħ	1				
7.9 - 8.0			Ħ	\dagger	Ħ	t	Ħ	十	\dagger	Π	t	Ħ	\dagger	$\dagger \dagger$	T	\dagger	H	\dagger	Ħ	Ť	Ħ	\dagger	$\dag \uparrow$	$\dagger \dagger$	\dagger	Ħ	\dagger	Ħ	+	Ħ	\dagger	Ħ	\dagger	\dagger	Ħ	1				
8.0 - 8.1			П	T	Ħ	T	Ħ	十	Π	П	T	Π	1	Ħ	T	\forall	П	T	Π	Ť	Ħ	\top	Π	\top	T	Ħ	\top	П	T	Ħ	\top	П	T	T	П	11				
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