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- 5	1	Z		1					SOIL LOG	HOLE NO: BH BV
PROJEC	CT	: Bri	sbar	ie Val	ley Gra	ade S	Sepa	aration	JOB NO : QB10200.4	PAGE: 1 OF 8
POSITIO						745	(56	MGA94	,	LOCATION : Brisbane Valley Hwy
RIG TYP DATE D						11			CONTRACTOR: GeoDrill - T Partleton LOGGED BY: LN CHECKED BY: VP	DIP / AZIMUTH : 90° STANDARD : AS1736
			DA		10/0/	Ė			EGGGES ST. EN GNEGKES ST. VI	
DRILLING & WATER DETAIL	Moisture Content	Dry Density	% Fines	Atterberg Limits	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	COMSISTENCY RELATIVE BENSITY COMMENTS Field Test Data & Other Observations
							-		CLAY - sandy CLAY, high plasticity, brown, fine to medium sand, moist, firm.	M
						57.3-	_ 		0.30m CLAY - silty sandy CLAY, high plasticity, grey brown mottled orange red, some fine sand, trace of fine gravel, moist, stiff.	
					1.00m SPT 3, 4, 5 N=9	- 56.8-	_ 			M
Groundwater					1.45m	56.3-			1.50m CLAY - high plasticity, grey brown mottled orange, moist, very stiff to hard.	
Ö					2.00m SPT 5, 6, 6 N=12	- 55.8-	2.0 		^{2:00m} CLAY - high plasticity, grey brown mottled orange, some extremely weathered and extremely low strength orange red layering, moist, stiff.	
					2.45m	55.3-	2.5		3.00т	M
						54.8-	-3.0		CLAY - silty sandy CLAY, high plasticity, grey mottled orange, some fine sand, some fine extremely weathered and extremely low stength ironstone layering, moist, stiff to very stiff.	M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AS Au WB Wa RR Ro	_ = W	uger ore olling OUNE /ater l	evel (HQ NQ PQ NML(ER S)	HQ Cor NQ Cor PQ Cor NMLC YMBOLS	ring ring Corii	ng	HP Ha HV Ha (P: Pe	SAMPLES & FIELD TESTS sturbed Sample NV Soil Sample VI Undisturbed Tube Sample VI Very Loose L Loose MD Medium Dense D Dense VD Water Sample NO MOISTURE CONDITION D = Dry M = Moist W = Wet VD Very Dense CO Compact	0 - 4 VS Very Soft < 12 kPa {0-4

File: QB10200.4 BH BV 4 Page 1 OF 8

HOLE NO: BH BV 4 **SOIL LOG** PAGE: 2 OF 8 PROJECT: Brisbane Valley Grade Separation JOB NO: QB10200.4 POSITION : E: 470417, N: 6949745 (56 MGA94) LOCATION: Brisbane Valley Hwy SURFACE ELEVATION: 57.8 (AHD) RIG TYPE: Hydrapower Scout DIP / AZIMUTH : 90° CONTRACTOR: GeoDrill - T Partleton STANDARD: AS1736 DATE DRILLED: 10/5/11 to 10/5/11 LOGGED BY: LN CHECKED BY: VP LAB DATA SAMPLES & SPT DATA GRAPHIC LOG CONSISTENCY RELATIVE DENSITY DRILLING WATER DETAIL MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components MOISTURE COMMENTS Ξ Atterberg Limits Dry Density % Fines Field Test Data 凒 & Other Observations F/MD St/D VSt/ CLAY - silty sandy CLAY, high plasticity, grey mottled orange, some fine sand, some fine extremely weathered and extremely low stength ironstone layering, moist, stiff to very stiff. (continued) 11 М SILT - sandy SILT, high plasticity, grey with some orange mottling, some fine sand, moist, hard 4.45m SILT - sandy gravelly SILT, high plasticity, grey with some orange mottling, some fine sand, some fine to medium orange brown extremely weathered and extremely low strength ironstone gravel, moist, hard. М SPT 5, 12, 14 SKM SOIL LOG BRISBANE VALLEY GRADE SEPARATION TP,AH AND BH LOGS.GPJ <-DrawingFile>> 29/11/2011 11:12 IRONSTONE - orange to dark red brown, fine to medium sand and gravel, extremely weathered and of extremely low strength, moist, medium dense. М SAND - silty SAND, fine to coarse sand, orange with grey layeres, low plasticity 11, 20, 22 N=42 IRONSTONE - orange to dark red brown, fine to medium sand and gravel extremely weathered and of extremely low strength, moist, medium de М Log SAMPLES & FIELD TESTS (WORKIN-BRISBANE) **DRILLING** CONSISTENCY (Su) {N-value} DENSITY (N-value) Disturbed Sample Env Soil Sample SPT SPT Sample U Undisturbed Tube Sample Hand Auger HQ **HQ** Coring VL Very Loose 0 - 4 ٧S Very Soft < 12 kPa {0-2} Auger Washbore NQ PQ NQ Coring PQ Coring Loose 4 - 10 S Soft 12 - 25 {2-4} EW Env Water Sample W Water Sample MD Medium Dense 10 - 30 25 - 50 {4-8} Firm Rock Rolling NMLC NMLC Coring D Dense 30 - 50 St Stiff 50 - 100 {8-15} **HP Hand Penetrometer** MOISTURE CONDITION
D = Dry M = Moist W = Wet **GROUNDWATER SYMBOLS** HV Hand Vane Shear D = Dry
(P: Peak Su R: Residual Su)
N SPT blows per 300mm
HW SPT penetration by hammer weight VD Very Dense 50 - 100 VSt Very Stiff 100 - 200 {15-30} ▼ = Water level (static)

▼ = Water level (during CO Compact >50/150mm Н Hard > 200 kPa {>30} = Water level (during drilling) AGS RW SPT penetration by rod weight SKN

File: QB10200.4 BH BV 4 Page 2 OF 8

5	K		1					SOIL LOG		HC	DLE NO:	BH BV
ROJECT	: Br	isban	e Vall	ey Gra	ade S	Sepa	aration	JOB NO: QB10200.4		PAGE : 3	3 OF 8	
POSITION	: E:	4704	17, N	: 6949	745	(56 l	MGA94)	SURFACE ELEVATION: 57.8 (AHD)				ne Valley Hwy
RIG TYPE								CONTRACTOR: GeoDrill - T Partleton			MUTH : 90°	
ATE DRILI				o 10/5/	11			LOGGED BY: LN CHECKED BY: VP		STANDAL	RD : AS173	36
DRILLING & WATER DETAIL	Dry Density	S DAT	Atterberg Limits	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE	CONSISTENCY/ RELATIVE DENSITY QW / ISA ON / ISA	Field	MMENTS Test Data Observations
				SPT 6, 12, 18 N=30	50.3-	- - -		SILT - clayey SILT high plasticity fines, grey mottled orange, moist, hard.	м			
water				8.00m SPT 8.13, 30/80mm N=R	- 49.8 -	- - - - -		3.00m SILT - clayey SILT high plasticity fines, grey mottled orange, moist, hard. So extremely weathered and externely low strength fine ironstone gravel at 8.4	ne			
Groundwate				9.00m SPT 18, 30/105m N=R	- 48.8-m			3.00m SILT - clayey SILT, high plasticity fines, light grey orange, trace of fine sand, moist, hard.	М			
HA Hand A AS Auger WB Washb RR Rock R ————————————————————————————————————	Auger ore olling ROUN Water	DWAT	HQ NQ PQ NMLC ER SY static)	HQ Cor NQ Cor PQ Cor Cor NMLC	ring ring ring Cori		HP Han HV Han (P: Peal N SPT	SAMPLES & FIELD TESTS turbed Sample SPT SPT Sample U Undisturbed Tube Sample Vowater Sample W Water Sample W Water Sample W Water Sample U Undisturbed Tube Sample L Loose MD Medium D D Dense Vowater Search Colombia D Dense VD Very Dense K Su R: Residual Su) blows per 300mm T penetration by hammer weight	4 - ense 10 30 e 50	4 VS 10 S	Very Soft Soft Firm Stiff	(Su) (N-value) < 12 kPa {0- 12 - 25 {2-4 25 - 50 {4-8 50 - 100 {8- 100 - 200 {15 > 200 kPa {>

5	K	1/1					SOIL LO	à		НО	LE NO:	BH BV
PROJECT	: Bris	bane V	alley Gra	ade :	Sep:	aration	JOB NO: QB10200.4			PAGE : 4	4 OF 8	
POSITION				745	(56	MGA94)	SURFACE ELEVATION: 57.8 (AI	dD)				ne Valley Hwy
RIG TYPE		•					CONTRACTOR: GeoDrill - T Part				/UTH : 90	
DATE DRILI		10/5/11 DATA	10 10/5	/11			LOGGED BY: LN CHE	CKED BY: VP	Τ	STANDAR	RD : AS17	36
DRILLING & WATER DETAIL	Dry Density	% Fines Atterberg	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPT Soil Type, Colour, Plasticity or Partic Secondary and Minor Com	le Characteristic	MOISTURE	CONSISTENCY / RELATIVE DENSITY QM / JS/ 1/8/ JS/ CONSISTENCY / RELATIVE DENSITY	Field	MMENTS Test Data Observations
					-		SILT - clayey SILT, high plasticity fines, light gr moist, hard. (continued)	y orange, trace of fine sand,	М			
			11.00m SPT 20, 30/135n N=R		11.0		00m SILT - high plasticity, light grey brown, trace of					
Groundwater			12.00m SPT 20, 23, 30/1000 N=R		12.0				м			
			13.00m SPT 30/100n N-R0 \13.10m	44.8-	13.0							
V = \	Auger ore olling ROUND ¹ Vater le	WATER	NQ Co PQ Co LC NMLC SYMBOLS	oring ring Cori	ng	HP Hand	SAMPLES & FIELD TESTS urbed Sample SPT SPT Sample Soil Sample U Undisturbed Tube Water Sample W Water Sample I Penetrometer I Vane Shear Su R: Residual Su) lows per 300mm	MD Medium Dense D Dense TION	0 - 4 4 - 1 e 10 - 30 - 50 -	4 VS 10 S · 30 F	ONSISTENCY Very Soft Soft Firm Stiff Very Stiff Hard	(Su) {N-value} < 12 kPa {0- 12 · 25 {2-4} 25 - 50 {4-8} 50 - 100 {8- 100 - 200 kPa {>

5			L					SOIL LOG		HC	DLE NO: I	BH BV
ROJECT		Brisb	ane Va	alley Gr	ade	Sepa	aration	JOB NO : QB10200.4		PAGE :	5 OF 8	
POSITION								SURFACE ELEVATION : 57.8 (AHD)		LOCATIO	ON : Brisbane	Valley Hwy
RIG TYPE	:	lydra	ower	Scout				CONTRACTOR: GeoDrill - T Partleton		DIP / AZI	MUTH : 90°	
ATE DRI				to 10/5	/11			LOGGED BY: LN CHECKED BY: VP		STANDA	RD : AS1736	5
DRILLING & WATER DETAIL	Ĕ	AB D	erberg	SAMPLES & SPT DATA	RL (m)	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	HAILE	CONSISTENCY / RELATIVE DENSITY O Q Q / 18 / 18 / 18 / 18 / 18 / 18 / 18	Field T	MENTS est Data bservations
44	NOV			SPT 30/75m N=R 14.08m 15.00m SPT SPT SPT S0/50m N=R 15.05m	43.3-			SILT - high plasticity, light grey brown, trace of fine sand, moist, hard. (continued) 15,00m SILT - sandy SILT, high plasticity fines, grey, some fine to medium sand, moist, hard.	M			
					41.8	-15.5 - - -16.0 - - -16.5		Continued as Cored Borehole				
▼ =	er hbore Rolli GRO! = Wa	e ng JNDW ter leve	HQ NQ PQ NMI ATER S	HQ Cc NQ Cc PQ Cc .C NMLC SYMBOL b)	oring pring C Cori		HP Har HV Har (P: Pea N SPT HW SP	SAMPLES & FIELD TESTS Sturbed Sample SPT SPT Sample V Vory Log v Soil Sample U Undisturbed Tube Sample V Water Sample W Water Sample W Water Sample W Water Sample D Dense MD Medium D Dense N D Sur R: Residual Su) blows per 300mm T penetration by rod weight DENS VL Very Log L Loose MD Medium D Dense VD Very Der CO Compac	Dense 10 30 nse 50	· 4 VS	Soft Firm Stiff St Very Stiff	Su) {N-value} < 12 kPa {0- 12 - 25 {2-4 25 - 50 {4-8 50 - 100 {8-' 100 - 200 {15 > 200 kPa {>

S	SK		1				RO	CK LOG				HOI	E NO: B	H BV 4
PROJEC	:CT · Bri	iehan	o Vs	allev Gra	ade Separatio	on JOB NO	: QB10200.4					PAGE: 6	OF 8	
					745 (56 MG/		E ELEVATION	· 57.8 (AHD)				I : Brisbane	Valley Hwy
RIG TYI	PE : Hyd	drapo	wer s	Scout			CTOR : GeoD					DIP / AZIM	UTH : 90°	
DATE D	DRILLED :	: 10/	5/11	to 10/5/	11	LOGGED	BY:LN	CHEC	(ED	BY : VP		STANDAR	D : AS1736	
DRI	RILLING	_				N	MATERIAL			1		CTS & COM		
DRILLING & WATER DETAIL	HENDE TOR/ROD	FIELD IESIS	DEPTH (m)	GRAPHIC LOG	(texture,	DESCRIP TYPE : Colour, Of fabric, mineral co ion, cementation	Grain size, Struc omposition, har	dness	Weathering	ESTIMATED STRENGTH Is(50)	DEFECT SPACING (mm)	Description of defects,	MENTS joints, seams, additional and comments	INSTALLATION DETAIL
SKM AGS REV02.1 (WORKIN-BRISBANE).GLB Log SKM ROCK(BRISBANE VALLEY GRADE SEPARATION TP.AH AND BH.LOGS.GPJ < <drawingfile>> 29/11/2011 11:28 C</drawingfile>	15.56 15.60 15.73	42.8 42.8 42.8 41.8 41.8	14.5		SILTSTONE slightly weath grey fine to n fresh sandsto	ING AT 15.40m - fine grain, grey, fair lered to fresh, with vinedium grain, medium one	ery thinly to thinly le in strength slightly v	ayered light veathered to	sw			— CN IR RF J5(op)(ro)W	- - - - - - - -	
3LB Log SKM ROCK(BRISBANE	17.20 100% TCR 90% RQD		-										- - - -	
A AGS REV02.1 (WORKIN-BRISBANE).G	GROUI ▼ = Wate	ore run ore run fraction INDW/ er leve	recor > 10 n only TER I (sta	HQ F PQ F vered 0mm long measure	ed) LS	D Disturbed S W Water Sam SPT SPT Sampl	ple EW E	TESTS nv Soil Sample nv Water Sample	E C D F	S Crushed Seam (Z Crushed Zone (B Drill Break S Z Fractured Zone \ T Joint S Infilled Seam F Z Shear Zone F N Vein S	CT Coating SN Stain VR Veneer	Cu Curved IR Irregular PR Planar ST Stepped Un Undulated	0-0.03 E: 0.03-0.1 V 0.1-0.3 Lo 0.3-1.0 M 1.0-3.0 H	IGTH (Is50 MPa) ktremely Low ery Low bw edium igh ery High
SKM AGS REV02.1 (WORKIN-BRISB.	NQ Coring TCR % co RQD % co (rock f) GROUI	ore run ore run fraction INDW/ er leve	> 10 n only TER I (sta	PQ F vered 0mm long measure SYMBOI	Q Coring g ed) LS	W Water Sam SPT SPT Sampl U Undisturbed	ple EW E le d Tube Sample	nv Water Sample	E C D F	Z Crushed Zone (B Drill Break (Z Fractured Zone) T Joint (S Infilled Seam F Z Shear Zone F N Vein (S Borne S S	CT Coating SN Stain VR Veneer POL Polished RF Rough S Smooth	IR Irregular PR Planar ST Stepped Un Undulated	0.03-0 0.1-0.3 0.3-1.0 1.0-3.0	1.1 V 3 L 0 M 0 H

	5	1		N	L					ROC	CK LOC	à						HOL	E NO: E	BH BV	4		
ĺ	PROJE	CT :	Brisl	oane	e Va	lley Gra	ade Separatio	on JOB NO	O : QB10	0200.4								PAGE: 7	OF 8				
- 1							745 (56 MGA		ACE ELEV	/ATION	: 57.8 (AHI	D)				LOCATION: Brisbane Valley Hwy							
	RIG TY	PE :	Hydra	apov	ver S	Scout		CONTRACTOR: GeoDrill - T Partleton										DIP / AZIMUTH : 90°					
ļ	DATE D			10/5	/11	to 10/5/	11	LOGGE	ED BY:		CHEC	KED	BY	: VP	-			STANDAR	D : AS1736	T			
	DRI	LLING	G 				I		MATERI	IAL			T					CTS & COM					
	DRILLING & WATER DETAIL	TCR/RQD	FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	(texture,	TYPE : Colour fabric, mineral	DESCRIPTION 'PE: Colour, Grain size, Structure bric, mineral composition, hardness n, cementation, etc as applicable)					ESTIMATED STRENGTH Is(50) • - Axial • - Diametral • - Diametral • - Diametral		PAC (mn	ING 1)	Description of judefects, acobservations ar	additional	DETAIL			
				39.8-			orange brown (continued)	E - massive, mediu n places, mediu E - massive, mediu o medium gravel,	m strength,	slightly wea	athered.	sw						— CN IR RF J10(op)(ro)					
	Run 2		18.41m 18.55m	39.3-	_ _ 18.5													— CN IR RF J5(op)(ro)W — CN IR RF J10(op)(ro)	- -				
AND BH LOGS.GPJ < <drawingfile>> 29/11/2011 11:28</drawingfile>		100% TCR 90% RQD	19.40m 19.58m	38.8 – 38.3 –												·		— CN IR RF	- - -				
SKM AGS REV02.1 (WORKIN-BRISBANE),GIB LOG SKM MOCK(BRISBANE) BRISBANE VALLEY GRADE SEPRAATION IT AH AND BH LOGS.GPJ <-DrawingFile>> 29/11/2011 11.288		20.10 100% TCR 93% RQD	20.36m	37.8 -				E - massive, medii n to high strength			t grey to	sw						— CN IR RF J40(op)(ro) ¹	-				
GLB Log SKM RO	Run 3				_												 	— CN IR RF J5(op)(ro)W					
M AGS REV02.1 (WORKIN-BRISBANE).C	DRILLING NMLC NMLC Coring NQ NQ Coring PQ PQ Coring TCR % core run recovered RQD % core run > 100mm long (rock fraction only measured) GROUNDWATER SYMBOLS W = Water level (static) W = Water level (during drilling)					Q Coring g ed) LS	W Water Sa SPT SPT San	nple bed Tube S	ES En EW En	TESTS v Soil Sample v Water Samp	ole C F J S V	Z Ci B D Z Fr T Jo S Infi	illed Seam near Zone	OF CN CONTROL	Clear Coati Stain /ene Poli Rou Smo	n ng er shed gh	Cu Curved IR Irregular PR Planar ST Stepped Un Undulated	0.03-0.1 \ 0.1-0.3 L 0.3-1.0 M 1.0-3.0 H	extremely Low Pery Low				

SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately SANDSTONE - massive, medium to coarse sand, light orange brown, fine to medium gravel, medium strength, moderately	S	1		V				ROCK	LOG				HOL	E NO:	BH BV 4			
### SUFFICE CHARGES SEALE LICENTED : \$7.8 (AHD) INTERPRETATION : Before 7 Perfection DIPLIAND MATERIAL DIPLIAND MATERIAL DIPLIAND MATERIAL DIPLIAND BOOK TYPE: Cooper Final Composition Interfection DIPLIAND BOOK TYPE: Cooper Final Composition DIPLIAND BOOK TYPE: Cooper Final Cooper F	PROJEC	CT :	Brish	oane	. Va	lley Gra	ade Separatio	on JOB NO: QB10200.4					PAGE: 8 OF 8					
DRILLING DISTINUTE IN 10 10511 1 DOSED VI IN CHECKED BY IN DISTINUTE IN 10511 1 DOSED DATE IN 10 LOGGED BY IN CHECKED BY IN CHE									7.8 (AHD)				• • •					
DRILLING DRILLING	RIG TYP	E:	Hydra	pow	er S	Scout		CONTRACTOR: GeoDrill -	T Partleton	1								
Description	-			10/5	/11	to 10/5/	11		CHECKE	ED	BY : VP	,	STANDAR	i				
Service Cooling Control Contro	DRIL	LLING						MATERIAL		ESTIMATED STRENGTH								
SAMSTONE - measure modulum to locate early lay on our gap to make a set of the second process of the second pr	DRILLING & WATER DETAIL	DRILL		RL (m)	DEPTH (m)	GRAPHIC LOG	(texture,	TYPE: Colour, Grain size, Structure fabric, mineral composition, hardness	SS	Weathering	Is(50) • - Axial • - Diametral	SPACING (mm)	Description of defects,	joints, seams, additional	INSTALLATION DETAIL			
DRULING DRU		93% RQD		36.3-	- - - -21.5		white, mediur	m to high strength, slightly weathered. <i>(conti</i> ii	nued)					-				
	GS.GFJ < <ur></ur>	TCR 91% RQD	22.56m 23.27m	35.3-			brown, fine to				— CN IR RF J5(op)(ro)W							
	E.1 (WOHKIN-BAINE), SIZE LOG SKM HOCK(BHISBANE) BHISBANE VALLEY GHADE SEPAH. NAME OF STATES OF	IQ Co CR IQD	Coring ring % core % core	PRILL run i	- - - - IING	HQ F PQ F vered Omm long	HQ Coring	SAMPLES & FIELD TES: D Disturbed Sample ES Env So W Water Sample EW Env W SPT SPT Sample	oil Sample	C D F	S Crushed Seam Z Crushed Zone B Drill Break Z Fractured Zone I Joint S Infilled Seam	ABBREVIATIC CN Clean CT Coating SN Stain VR Veneer POL Polished	Cu Curved IR Irregular PR Planar ST Stepped	0-0.03 E 0.03-0.1 \ 0.1-0.3 L 0.3-1.0 M 1.0-3.0 H	Extremely Low Very Low Low Medium High			
	SKW AGS REV	y =	Water I	evel	(stat	ic)			NO NO		N Vein	S Smooth						



CORE PHOTOGRAPHS JOB NO.: QB10200.4 BOREHOLE: BH BV 4 COORDS:

PROJECT: Brisbane Valley Grade Separation LOCATION: Warrego – Brisbane Valley Hwy Intersection

DEPTH:23.2 m RL:57.8

DRILL RIG: Hydra Scout CONTRACTOR: Geodrill

CHECKED BY:VP DATE:10/5/11

CORE: BH BV4, 15.4 m to 21.4 m



CORE: BH BV 4, 21.4 m to 23.2 m



CORE / FIGURE