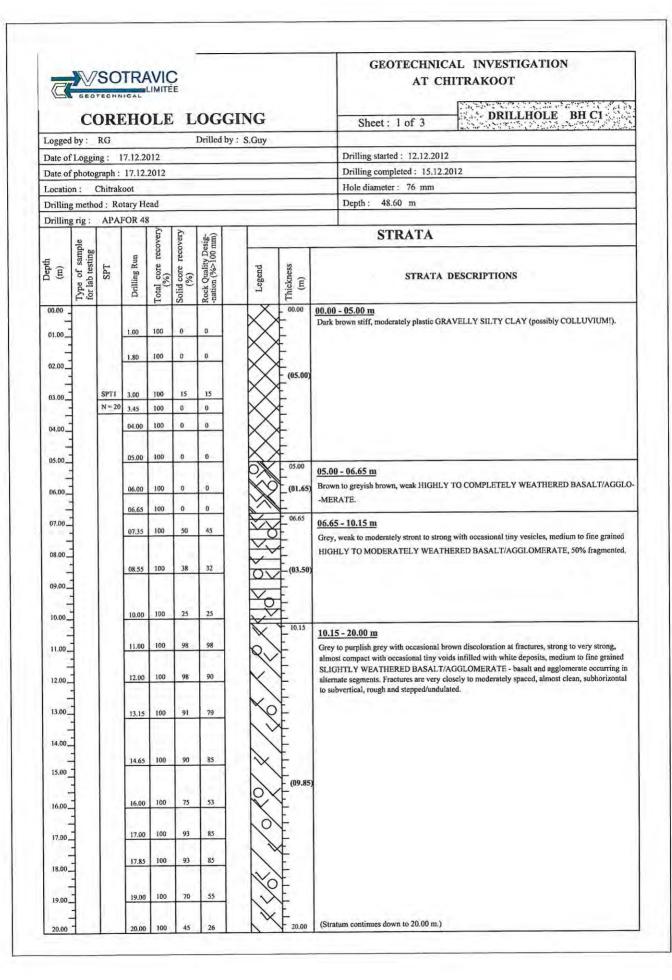
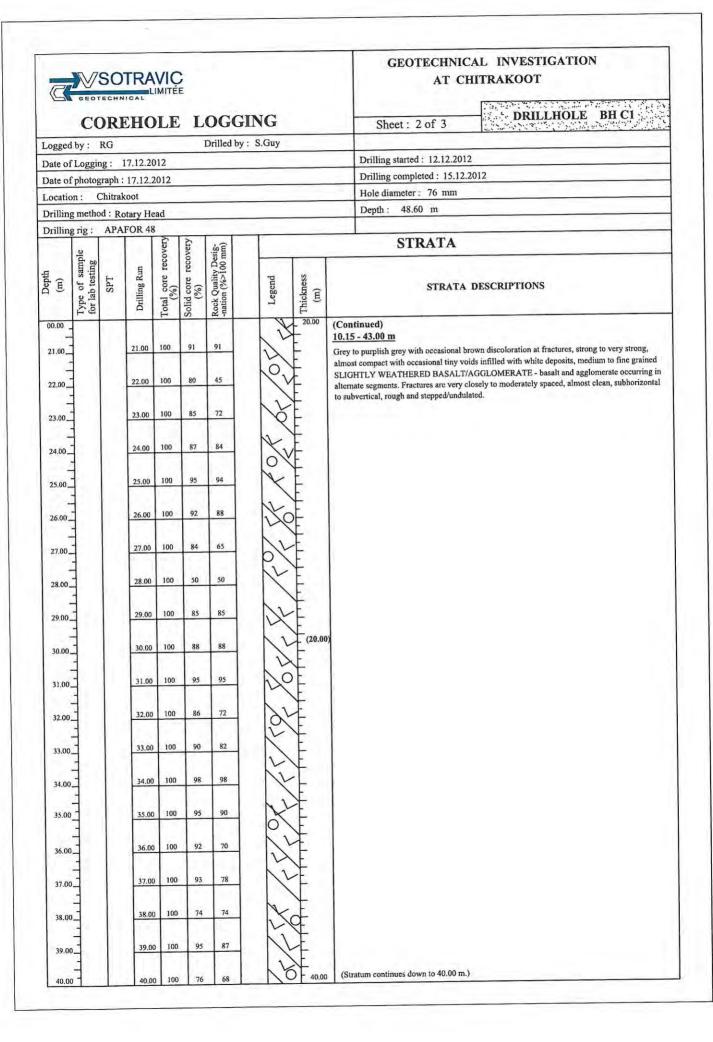
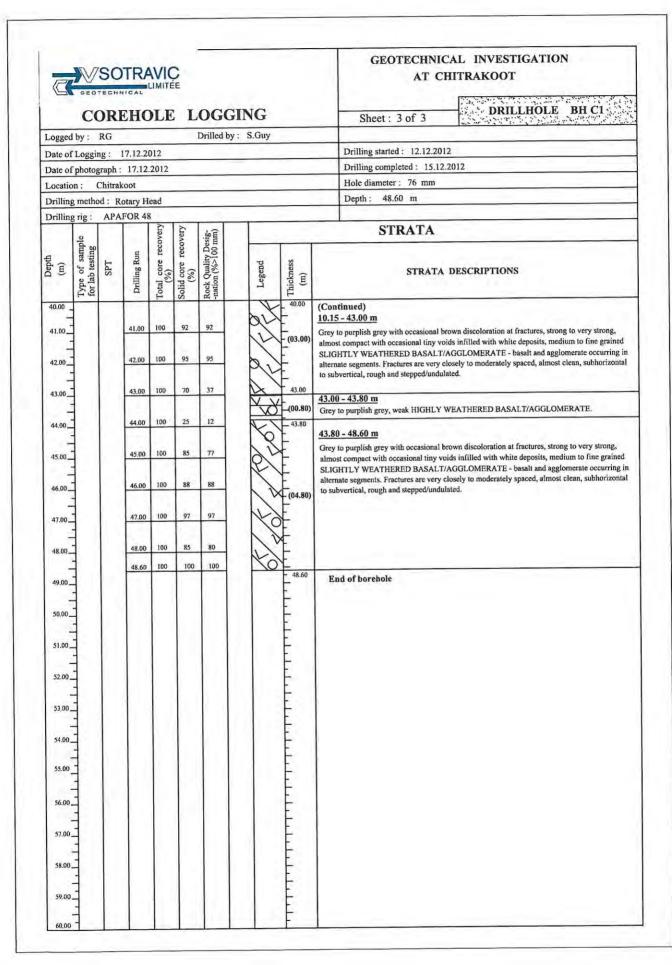
11.	Bore Logs and Core Sample Photo









PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE BH\_ C1

:000-300 M DEPTH

: 12 12 12 DATE



PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

CHOLE BH-C1

SPT Nº 1 (3 00 - 3 45 m)

0 - 150 : 4 150 - 22 5 : 5 225 - 300 : 5

DEPTH :5 00-6 00 ...

DATE : 13 12 12

300-375:4 375-450-6



PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKCOT BH-C1 CHOLE







PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE BH-C1

DEPTH :9.00-12.00 ~

DATE :13 12.12

PROJECT :GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE BH C1

DEPTH :12:00 - 15:00 -
DATE :13:12:12

PROSECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE :BH-C1

DEPTH :15:00 - 18:00 =

DATE :14-12:12





PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOUT

C/HOLE BH-Ci

DEPTH 18 00 - 21 00 m

DATE

PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE .BH - C1

DEPTH : 21.00 - 24.00 m

DATE : 14.12.12



PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE :BH-C1

DEPTH :24.00 - 27.00 -
DATE :14.12.12





PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE BH C1

DEPTH 27 00 - 30 00 m

DATE 14 12 12

PROJECT GEOTECHNICAL INVESTIGATION AT CHURAKOOT

C/HOLE : 8H\_C1

DEPTH : 30.00 - 35.00 m

DATE : 14, 12.12







PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE .8H-C1

DEPTH .36.00 - 39.00 m

DATE .15.12.12







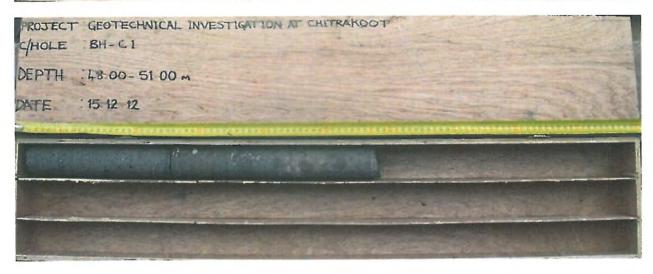


PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE 8H-C1

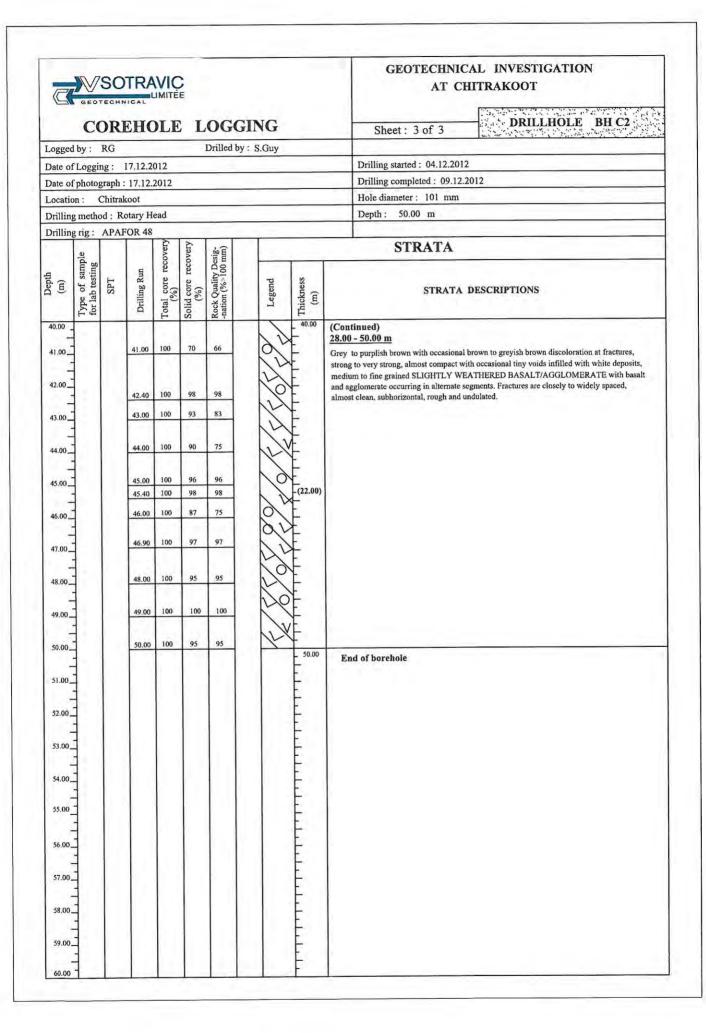
DEPTH 45.00-48.00 m

DATE 15 12 12

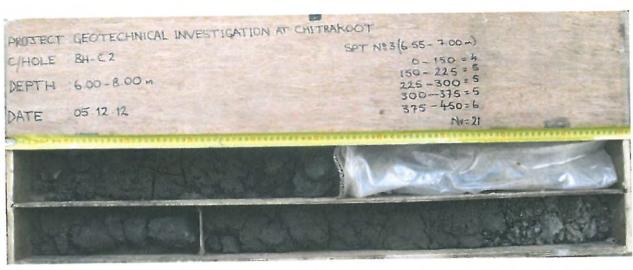




		OT	RAV	/IC					GEOTECHNICAL INVESTIGATION AT CHITRAKOOT
	~	·	TTO	T 17	T	000	TNIC		Sheet: 1 of 3 DRILLHOLE BH C2
	CC	KE	HU	LE	L	OGG	ING		Sheet: 1 of 3
Logged	-					Drilled by	: S.Guy		
Date of									Drilling started: 04.12.2012
Date of	_			2012			_		Drilling completed: 09.12.2012
Locatio		hitrak			_	-			Hole diameter: 101 mm  Depth: 50.00 m
Drilling		101	(a ( 6 ) 1 4 )		-	_			Бериг. 30.00 ш
Dinnig		AIA	OK 40		ery	P.E.			STRATA
Depth (m)	Type of sample for lab testing	SPT	Drilling Run	Total core recovery (%)	Solid core recovery (%)	Rock Quality Desig- nation (%>100 mm)	Pregend	Thickness (m)	STRATA DESCRIPTIONS
00,00							XX	(01.00)	00.00 - 01.00 m
01.00_			0.85	100	0	0	$\langle \times \rangle$	1000	Dark grey, firm to moderately stiff GRAVELLY SILTY CLAY with thick roots. TOP SOIL.
			1.35	100	0	0	$\times$	01,00	01.00 - 08.00 m  Brown, stiff to very stiff GRAVELLY SILTY CLAY with occasional cobbles, boulders and
02.00_		SPT1	2.20	100	0	0	XX	-	thick roots (possibly COLLUVIUM). CORE LOSS between 5.35 and 5.75.
	1 1	N = 33	2.65	100	0	0	$\times$	-	
03.00_		SPT2	3.35	100	0	0	XX.	F	
	1	N = 23	3.80	100	0	0	XX	-	
04.00	] [						- KX	-	
			4.80	100	0	0		(07.00)	
05.00	U2 N1	CAME	5.25	100	0	0	$\langle \times \rangle$	05.35 CORE	
06.00		CORE LOSS	5.35	0	0	0	XX	CORE LOSS 05.75	
-	- 1	SPT3	6.55	100	0	0	·××	1	
07.00_	1	N = 21	7.00	100	0	0		‡	
	1	7	7.30	100	0	0	$\times$	‡	
08.00_	1	SPT4	8.00	100	0	0	XX	08.00	08.00 - 09.70 m
- 1		N = 19	8.45	100	0	0	YOV	(01.70)	Grey, weak HIGHLY WEATHERED BASALT/AGGREGATE reduced to gravels and cobbles.
09.00_	]		0.50	100	0	0	V V	(01.70)	
-	1		9.50	100	0	0	X	09.70	09.70 - 26.00 m
10.00_	1		10.35	100	70	70	~	F	Grey to purplish brown with occasional brown to greyish brown discoloration at fractures,
11,00_	=		11.00	100	95	85	1	E	strong to very strong, almost compact with occasional tiny voids infilled with white deposits, medium to fine grained SLIGHTLY WEATHERED BASALT/AGGLOMERATE with basalt
11,00	3				1		126	E	and agglomerate occurring in alternate segments. Fractures are closely to moderately spaced,
12.00_			12.00	100	95	95	W	-	almost clean, subhorizontal, rough and undulated.
13.00_			13.00	100	92	85	11	F	
1100	1	18	14.00	100	78	72	19	F	
14.00_	-		14,40	100	92	92	1	E	
15.00	3		15.00	100	60	60	b/	1	
	=						1	(16.30	0)
16.00_	-		16.00	100	95	87	1	E	
17.00	-		17.60	100	90	85	X	<u>}</u>	
18.00	-		18.00	100	100	100	1	+	
19.00			19.00	100	98	98	Si Vi	‡	
	1	1		100	78	78	Z,	20.00	(Stratum continues down to 26.00 m.)











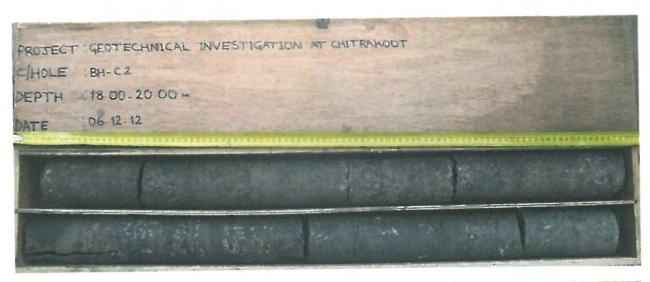






















PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

CHOLE BH- C 2

DEPTH 26 00 - 28 00 m

DATE 07-12-12



PROTECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

CHOLE SH-C2

DEPTH :28.00 - 30.00 m

DATE 07-12-12





























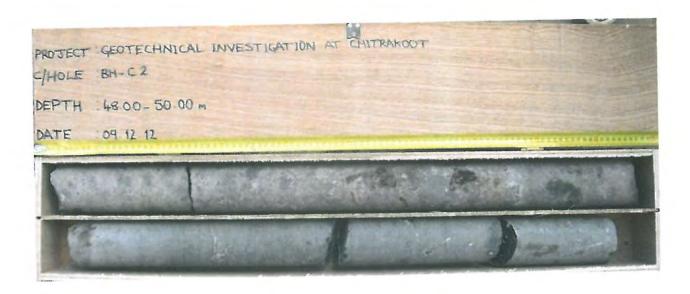




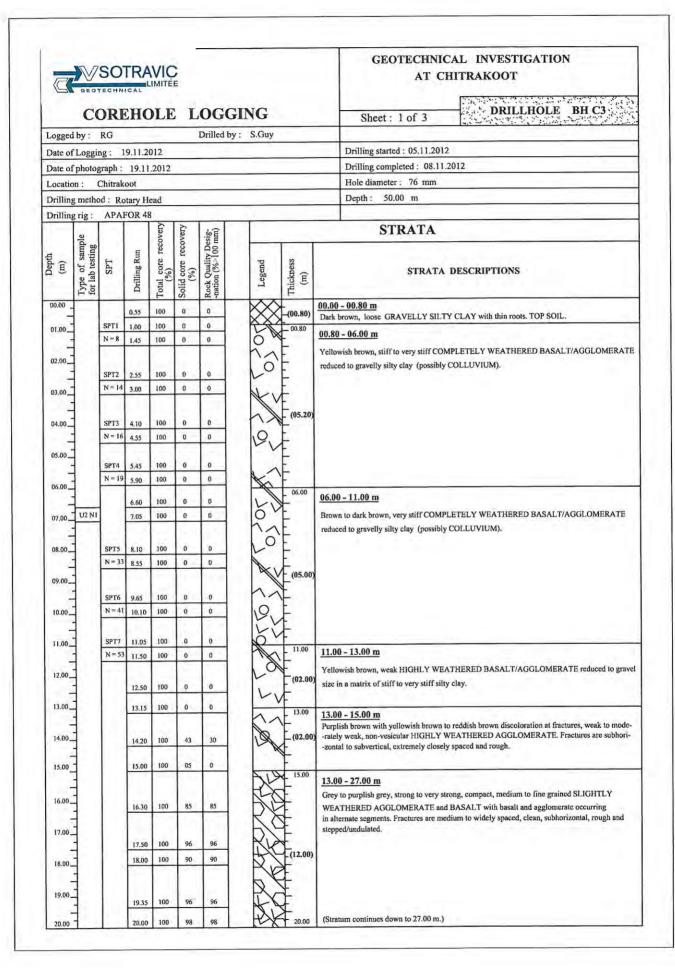


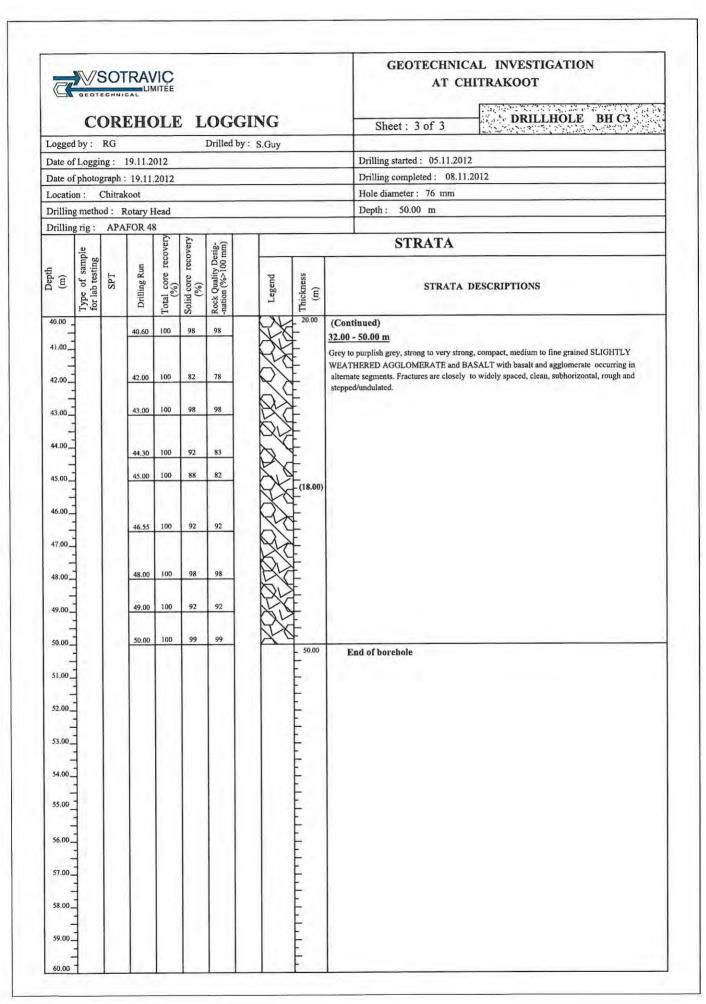














# вн-сз

300	- 225 = 4 - 300 = 4 - 375 = 3
	- 450=3 Ne:14

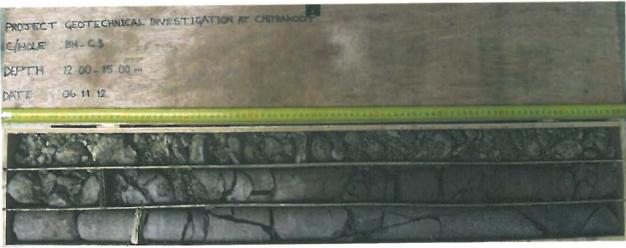
PROJECT GEOTECHNICAL INVESTIGATION I	0-150 = 4 0-150 = 5 150-225 = 4 150-225 = 3
DEPTH 3.00-6.00-	225 - 300 : 3
DATE 05 11 12	Nv=16 Nv=19
	Manuscrience de la constitución de
	SRIP DE LA VICE

PROJECT GEOTECHNICAL INVESTIGATION AT CHIT C/HOLE BH. C.3  DEPTH 6.00 9.00 m  DATE 06.11 12	U2 NT 1 (6.60-7.05-)	SPT NTS(8 to -8 55-) 0 - 150 -9 150 - 22 5 : 8 225 - 300: 7 300 - 375 : 9 375 - 450 : 9 Nr: 33
	*****************	SHADARATARE CARREST STREET, SANS
MANAGER SERVICE		





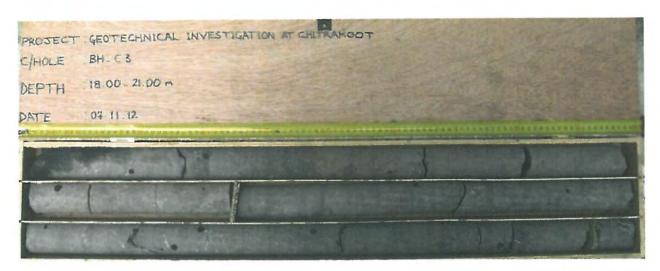


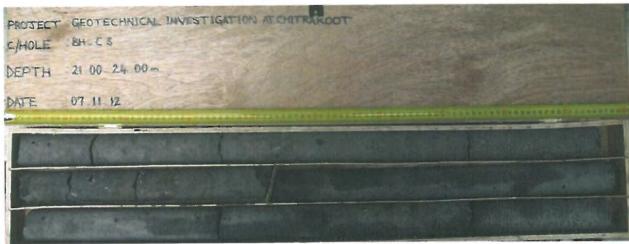


















PROJECT GEOTECHNICAL INVESTIGATION AT CHITRAKOOT

C/HOLE : BH\_ C 3

DEPTH : 27.00 - 50.00 m

DATE : .07.11.12

























	GEO	SO TECHNO	ICAL	LIMIT	ĖE	OG:	GII	NG		GEOTECHNICAL INVESTIGATION AT CHITRAKOOT  Sheet: 1 of 2  DRILLHOLE BH C4		
Logged	by:	RG				Drilled	by:	S.Guy				
Date of	Loggir	ng: 2	0.11.2	012						Drilling started: 30.10.2012		
Date of				2000						Drilling completed: 01.11.2012		
Locatio	n: (	Chitrak	oot							Hole diameter: 76 mm		
Drilling	metho	d: Ro	tary H	ead						Depth: 30.00 m		
Drilling	rig:	APAI	OR 48	8								
	mple ng	7 11		core recovery %)	ecovery	Desig- 00 mm)	e Le			STRATA		
Depth (m)	Type of sample for lab testing	SPT	Drilling Run	Total core (%)	Solid core recovery (%)	Rock Quality Desig- nation (% 100 mm)	рег тете	Legend	Thickness (m)	STRATA DESCRIPTIONS		
00.00			0.45	100	0	0	100		(00.50)	00.00 - 00.50 m Dark brown, loose GRAVELLY SILTY CLAY with thin roots. TOP SOIL.		
01.00			0		XX	00.50	00.50 - 07.55 m					
-			- 41					$\langle \times \rangle$	E	Dark brown to reddish brown, stiff GRAVELLY SILTY CLAY with occasional cobbles (possibly		
02.00			1.85	100	40 55	0		$\bowtie$	_	COLLUVIUM).		
		SPT1	2.55	100	0	0		$\langle \! \rangle \! \rangle$	-			
03.00_		N = 26	3.00	100	0	0		$\bowtie$				
			3,70	100	0	Ò		$\bowtie$	-			
04.00								$\bowtie$	(07.05)			
9		opra	4.50	100	0	0		$\bowtie$	F(07.03)			
05.00_		SPT2 N = 10	5.00	100	0	0		$\bowtie$	-			
-			3.43	100		1		$\times\!\!\times$	-			
06.00		SPT3	6.35	100	0	0		$\otimes$	-			
07.00	. 31	N = 28	6.80	100	0	0		$\times\!\!\times\!\!$	F			
07.00			7.55	100	0	0		$\times$	Ε			
08.00		SPT4	8.00	100	0	0		1	07.55	07.55 - 12.30 m		
		N = 36	8,45	100	0	0		70	1	Light brown to greyish brown, very stiff, non plastic COMPLETELY WEATHERED		
09.00_			0.44					1	L	AGGLOMERATE.		
		Opere	9.35	100	0	0		70	-			
10.00		SPT5 N = 34	9,85	100	0	0		V	(04.75)			
-			10,30		Ť	Ť		DZ	F(04.73)			
11.00_				100		0		7	E			
-		1	11,45	100	0	U		47	+			
12.00_			12.35	100	0	0		1				
12.60			13.00	100	72	28		1	12,30	12.30 - 14.00 m  Purplish to greyish brown with brown discoloration at fractures, weak to moderately strong with		
13.00_								1	(01.70)	occasional tiny voids infilled with white deposits, medium to fi9ne grained HIGHLY TO MODE RATELY WETHERED AGGLOMERATE. Fractures are extremely closely spaced, subhorizont		
14.00_			13.70	100	15	0		) ·	F	to subvertical, rough and undulated/stepped.		
. 1,50		l k					11.5	14	14.00 (01.00)	14.00 - 15.00 m Grey, strong to very strong, compact SLIGHTLY WEATHERED BASALT. Fractures are medium to widely spaced, subhorizontal, clean, rough and undulated/stepped.		
15.00			15,00	100	77	77		77	1			
16.00_			15.80	100	98	98		XX	15.00	15.00 - 18.00 m  Brownish to purplish grey, strong with occasional tiny voids, medium to fine grained SLIGHTL' WEATHERED AGGLOMERATE. Fractures are moderately to widely spaced, subhorizontal,		
17.00			17.30	100	91	91		\$\frac{1}{2}	(03.00)	clean, rough and undulated.		
1								ZX	7			
18.00_	1		18.00	100	93	93		1	18.00	18.00 - 20.00 m		
19.00_			18.85	100	82	70			(02.00)	Grey, strong to very strong, compact, medium to fine grained SLIGHTLY WEATHERED BASALT. Fractures are subhorizontal to subvertical, closely to moderately spaced, clean, rough		
	1		19.75	100	90	90		44	4	and undulated/stepped.  (Borehole continues to 30.00 m)		

#### GEOTECHNICAL INVESTIGATION SOTRAVIC GEOTECHNICAL LIMITÉE AT CHITRAKOOT DRILLHOLE BH C4 COREHOLE LOGGING Sheet: 2 of 2 Logged by: RG Drilled by : S.Guy Drilling started: 30.10,2012 Date of Logging: 20.11.2012 Date of photograph: 20.11.2012 Drilling completed: 01.11.2012 Hole diameter: 76 mm Location: Chitrakoot Depth: 30.00 m Drilling method: Rotary Head Drilling rig: APAFOR 48 STRATA Solid core recovery (%) Rock Quality Desig--nation (%>100 mm) Type of sample for lab testing (%) Depth (m) SPT Thickness (m) STRATA DESCRIPTIONS otal 00.00 20.00 - 30.00 m Grey to purplish grey, strong to very strong with occasional vesicles, medium to fine grained SLIGHTLY WEATHERED AGGLOMERATE 100 93 80 21.00\_ 21.00 Fractures are closely to moderately spaced, clean, subhorizontal, rough and undulated. 22.00 100 100 22.25 23.00\_ 77 23.45 24.00 100 85 80 24.45 25.00\_ 79 25.65 100 83 26.00 27.00 100 93 90 27.00 28.00 100 28.10 29.00 100 93 93 29.00\_ 100 85 30.00 30.00\_ End of borehole 31.00\_ 32.00\_ 33.00\_ 34.00\_ 35.00 36.00 37.00\_ 38.00\_ 39.00







HOLE	:BH-C4	INVESTIGATION A		O- 150 =9	SPT Nº4 (8:00-8:45m)
PERTH	:6.00 - 9.00 m			150 - 225 : 11	150 - 225 : 8 225 - 300 : 9
ATE	: 30 -10 - 12			300 - 375 : 8 375 - 450:10 Nv:28	300 - 375=1 375 - 450=1 Nv=3
					(A) (A) (A) (A)
		Francisco de la companya della companya della companya de la companya de la companya della compa	1	N. K. T. T. A.	
		- Marie - 1	9 3 4 10 70	THE RESIDENCE OF THE	





























		SO	TRA	VIC	E				GEOTECHNICAL INVESTIGATION AT CHITRAKOOT
	CC	)DI	CHO	N F	T	OGG	INC		Sheet: 1 of 2 DRILLHOLE BH C5
710000				LIL					Sheet: 1 of 2
Logged	-		0.11.0	010		Drilled by	. s.Guy	-	Drilling started - 22 10 2012
Date of		-							Drilling started: 23.10.2012 Drilling completed: 26.10.2012
Date of Locatio		hitrak		2012	_	_			Hole diameter: 76 mm
Drilling				ead					Depth: 30.00 m
Drilling									
HI.	sample sting		un	гесочегу	recovery	ty Desig- 100 mm)		Tu li	STRATA
Depth (m)	Type of samp for lab testing	SPT	Drilling Run	Total core (%)	Solid core recovery (%)	Rock Quality Desig- -nation (%>100 mm)	Legend	Thickness (m)	STRATA DESCRIPTIONS
00.00			0.35	100	0	0	XX	Ł	00.00 - 01.00 m
01.00		SPT1	0.75	100	0	0		(01.00)	Grey, stiff, moderately plastic to plastic GRAVELLY SILTY CLAY with thin roots. TOP SOIL.
	-	N = 52	1,25	100	0	0	$\times\!\!\!\times$	01.00	01.00 - 05.75 m  Brownish grey, stiff to very stiff GRAVELLY SILTY CLAY with occasional cobbles and
02.00_			2.25	100	0	0	X.X	‡	boulders from highly to moderately weathered basalt. COLLUVIUM.
		SPT2	2.50	100	0	0	$\times$	F	
03.00_	-	N = 31	3.25	100	0	0	XX.	(04.75)	
=			3.50	100	0	0	XX	+	
04.00	-	SPT3	4.25	100	0	0	KXX	‡	
05.00	1	N = 56	4.70 5.00	100	0	0		+	
05.00		Sec.					$\otimes$	E	
06.00		SPT4 N-Ref.	5.75	100	0	0	VV	05.75	05.75 - 06.85 m
			6.50 6.70	100	0 30	0	V	(01.10)	Grey, weak HIGHLY WEATHERED BASALT reduced to gravel and cobble size.
07.00			6.85	100	0	0	7	- 06.85	06.85 - 09.00 m
-		<	7.50	100	0	0	<	1	Grey to purplish grey, weak HIGHLY TO COMPLETELY WEATHERED AGGLOMERATE reduced to gravelly silty clay.
08.00			8.00	100	0	0	D ,	(02.15)	stational to the state of the s
		1	8.55	100	0	0	5	1	
09.00		1	9.25	100	0	0	_ <	09.00	09.00 - 16.00 m
10.00			10.00	100	37	0	<b>→</b>	-	Purplish brown to purplish grey, weak to moderately strong with occasional tiny voids, medium grained HIGHLY TO MODERATELY WEATHERED AGGLOMERATE with occasional segments of basalt and occasionally framented. Fractures are subhorizontal to subvertical, extre-
11.00			11.45	100	56	35	5	-	-mely closely to closely spaced, infilled with purplish brown to cream silty clay, rough and undulated.
12.00			12.30	100	15	0	5	(07.00)	
÷					1		$\subseteq \subset$	1(07.00)	
13.00			12 50	100	33	0	7	-	
14.00			13.50	100	33	0	>	‡	
14.00			14.40	100	10	0	EC	F	
15.00			15.15	100	50	23	1	E	
-			15.13	100	50	LJ	5	1	
16.00_			16.00	100	45	23	1	16.00	16.00 . 26.00 m
17.00_			16.85	100	65	60	2/2	1	16.00 - 26.00 m  Purplish grey to grey, strong to very strong, almost compact, medium to fine grained SLIGHTLY WEATHERED AGGLOMERATE. Fractures are closely to moderately spaced, subhorizontal, clean and rough/undulated.
18.00			18.00	100	75	60	2	(10.00)	
19.00			19.50	100	95	95	X	E	

	GEOT	ECHN		IMITÉI	E	ogg	ang		GEOTECHNICAL INVESTIGATION AT CHITRAKOOT  Sheet: 2 of 2  DRILLHOLE BH C5			
Logged							: S.Guy	_	Sheet: 2 of 2			
Date of			20 11 2	012		Dimed by	. B.Guy		Drilling started: 23.10.2012			
Date of		_		012					Drilling completed: 26.10.2012			
Locatio		Chitral							Hole diameter: 76 mm			
Drilling	g metho	d: R	Rotary F	lead					Depth: 30.00 m			
Drilling	g rig :	APA	FOR 48	8								
Depth (m)	Type of sample for lab testing	SPT	Drilling Run	core recovery	Solid core recovery (%)	Rock Quality Desig- nation (%>100 mm)	Legend	mess ()	STRATA  STRATA DESCRIPTIONS			
	Type for la		Drill	Total	Solid	Rock -nation	Le	Thickness (m)				
00.00							A	20.00	(Continued)			
21.00_			21.00	100	97	95	X	-	16.00 - 26.00 m  Purplish grey to grey, strong to very strong, almost compact, medium to fine grained SLIGHTLY			
			21.50	100	100	100	ID,	-	WEATHERED AGGLOMERATE. Fractures are closely to moderately spaced, subhorizontal,			
22.00							8	-	clean and rough/undulated.			
7			23.00	100	95	95	12	(10.00)				
23.00			23.00		25	17	CX	F				
24.00							B					
			24.60	100	94	94	17	E				
25.00_							K	-				
							O	-				
26.00			26.15	100	75	70	1	26.00				
- 4						1 m	1	F	26.00 - 28.00 m  Grey, very strong, compact, medium to fine grained SLIGHTLY WEATHERED BASALT.			
27.00			27.35	100	80	75	2 2	(02.00)	Fractures are closely to moderately spaced, subhorizontal, clean and rough/undulated.			
28.00_				-			2	+				
28.00							10	28.00	28.00 - 29.00 m Purplish grey, very strong, compact, medium to fine grained SLIGHTLY WEATHERED			
29.00_		l .	29.00	100	95	90	0	(01.00)	AGGLOMERATE. Fractures are moderately spaced, subhorizontal, clean and rough/undulated.			
2		hai	1				12	(01.00)	29.00 - 30.00 m   Grey, very strong, compact, medium to fine grained SLIGHTLY WEATHERED BASALT.			
30.00		П.	30.00	100	80	73	AL	30.00	Fractures are moderately spaced, subhorizontal to subvertical, clean and rough/undulated.			
								E	End of borehole			
31.00								-				
22.00								7				
32.00								Ε	ļ,			
33.00_	}											
								_				
34.00_								-				
-								E				
35.00								E				
2,00								-				
36.00_							111 3	7				
37.00_	1							E				
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38.00_												
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39.00_	1							-				
	1							F				





































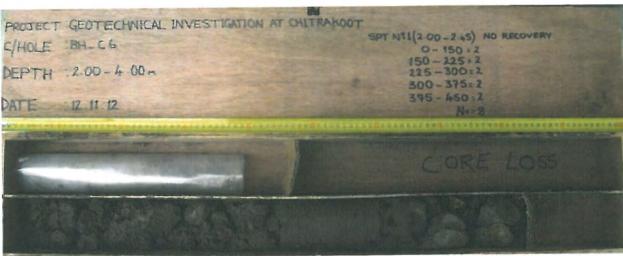
	GEOT	SO	TRA	VIC	C				GEOTECHNICAL INVESTIGATION AT CHITRAKOOT	
						OGG	INC		Sheet: 1 of 3 DRILLHOLE BH C6	
			inc						Sheet: 1 of 3	
	by:		USEN.			Drilled by	: S.Guy		Common year Common and an arrangement of the common and arrangement of the common arrangement of the common and arrangement of the common arrangement of t	
	Loggin								Drilling started: 12.11.2012	
	photog			2012					Drilling completed: 16.11.2012	
Locatio	_	hitrak						_	Hole diameter: 101 mm	
	g metho	_	-						Depth: 50.00 m	
Dunni	g rig :	AFAI	OK 46		2	12			STRATA	
Depth (m)	Type of sample for lab testing	SPT	Drilling Run	Total core recovery (%)	Solid core recovery (%)	Rock Quality Desig- nation (%>100 mm)	Legend	Thickness (m)	CTD ATTA DESCRIPTIONS	
00.00			0.55	100	0	0	KX	(00.55)	5) 00.00 - 00.55 m Brown, soft SILTY CLAT with fine gravels and thin roots. TOP SOIL.	
01.00			0,55	100	y	,	$\Diamond$	00.55	00.55 - 07.00 m	
01,00	1 1		1.45	100	0	0	X	F	Dark brown, soft to stiff, moderately plastic SILTY CLAY with occasional cobbles and boulders	
02.00_		SPT1	2.00	100	0	0	$\langle \times \rangle$	E	(possibly COLLUVIUM).	
-		N = 8 Na recovery	2.45	100	0	0	(X	2.45	20	
03.00_	1		3.00	100	0	0	KX,	CORE LOSS		
_			15	lozw.				3.00		
04.00_	1	SPT2 N=5	3.85 4.30	100	0	0	$\times$	(06.45)	5)	
	1 1		4.30	100			$\sim$	4		
05.00_	1	SPT3	5.30	100	0	0	$\bowtie$	4		
10	1	N = 23	5.75	100	0	0	$\sim$	₽		
06.00	}						$\times$	1		
200	1	SPT4	7.00	100	0	0	KX.	\$		
07.00	1	N = 14	7.45	100	0	0	<b>D</b>	07.00	07.00 - 13.00 m	
08.00_	1 1		8.00	100	0	0	A	+	Light brown, stiff to very stiff, non plastic GRAVELLY SILTY CLAY.	
- 08.00	1 1						13	F	COMPLETELY WEATHERED BASALT/AGGLOMERATE.	
09.00	3	SPT5	8.80	100	0	0	2	1		
	}	N = 32	9.25	100	0	0	7.6	+		
10,00_			10.00	100	0	0	X	-	2.	
	1	SPT6	10.65	100	0	0	DY	(06.00)	"	
11.00_	1	N = 26		100	0	0	7	+		
-	1						4.7	4		
12.00	]		12.00	100	0	0	1/1	1		
l, :	1	1	12.50	100	0	0	L/X	1		
13.00_	1		13.00	100	0	0	XX	13.00	13.00 - 15.45 m	
7,3,0	‡		14.00	100	65	60	2/	+	Grey to purplish grey with light brown discoloration at fractures, strong, compact, medium to	
14.00_	1		14.40	100	70	53	ZX	(02.45	fine grained SLIGHTLY TO MODERATELY WEATHERED AGGLOMERATE.  Fractures are closely spaced, subhorizontal to subvertical, rough and stepped/undulated.	
15.00	1					- 1	KY	E		
	3		15.45	100	62	62	2/1	15.45		
16.00	-		16.00	100	10	0	===	(00.45	45) 15.45-15.90m Greyish brown, weak HIGHLY WEATHERED AGGLOMERATE reduced to gravel and cobble size.	
	1						K)	4		
17.00_	1	13	17.00	100	90	90	AX	4	15.90 - 29.50 m	
-	1		18.00	100	79	79	2	(13.60)	Grey to purplish grey with occasional brown discoloration at fractures, moderately strong to very strong, compact, medium to fine grained MODERATELY TO SLIGHTLY WEATHERED AGGLOMERATE, occasionally fragmented. Fractures are very closely to closely to moderately	
18.00_	1		10.00	100	1	1	KX	7	spaced, subhorizontal, almost clean (with occasional brown discoloration), rough and undulated.	
10.00	7		19.00	100	60	25	0/	7		
19.00_	7		19.60	100	45	32	X	Æ		
20.00	7		20.00	100	82	55	KX	20.00	(Stratum continues down to 29.50 m.)	

	SEOT.	SO	TRA	VIC	E				GEOTECHNICAL INVESTIGATION AT CHITRAKOOT		
	Cr	DI	THO	TE	T	ogg	INC		Sheet: 2 of 3  DRILLHOLE BH C6		
	1000	1000	LHU						Sheet: 2 of 3		
Logged		_	EX. 57.02		- 1	Drilled by	: S.Guy		75 117 0 00 d J 12 12 12 20 12		
	7 3		21.11.20	X & E. G.				_	Drilling started: 12.11.2012  Drilling completed: 16.11.2012		
	_		21.11.	2012	_			_	Hole diameter: 101 mm		
Locatio		Chitrak		ead	_				Depth: 50.00 m		
Drilling		-	12.0								
									STRATA		
Depth (m)	Type of sample for lab testing						Legend	Thickness (m)	STRATA DESCRIPTIONS		
00.00			J. I				18	20.00	(Continued)		
21.00_			20.85	100	94	94	17	F	15.90 - 29.50 m  Grey to purplish grey with occasional brown discoloration at fractures, moderately strong to very		
-						420	K	<del>[</del>	strong, compact, medium to fine grained MODERATELY TO SLIGHTLY WEATHERED AGGLOMERATE, occasionally fragmented. Fractures are very closely to closely to moderately		
22.00			22.00	100	72	72	14	+	spaced, subhorizontal, almost clean (with occasional brown discoloration), rough and undulated.		
-							17	+			
23.00			23.25	100	85	75	Ka	F			
24.00_			24.00	100	98	98	D	(13.60)			
-							1	E			
25.00							16	-			
_			25.50	100	98	98	D	ţ.			
26.00_			26.00	100	64	22	X	£			
-	1						K	+			
27.00			27.15	100	90	90	10	+			
28,00	1	- ,	28.00	100	95	95	M	E			
28,00	1					- 11	10	E			
29.00	-		29.00	100	92	92	10	E			
								29.50	29.50 - 33.00 m		
30.00	1	N.	30.00	100	67	45	1/2	1-27.50	Purplish brown with light brown/cream discoloration at fractures, moderately weak to moderately		
	3		30.85	100	59	25	19	1	strong, non vesicular, medium to fine grained MODERATELY WEATHERED AGGLOME- -RATE. Fractures are extremely closely to closely spaced, randomly oriented, rough and		
31.00_	1						VX	(03.50)	stepped/undulated.		
20.00	1		32.00	100	52	12	12	7			
32.00_	1							E			
33.00_	3		33.00	100	73	60	A	1			
	1						2/2	33.00	33.00 - 35.90 m  Grey, strong to very strong, compact, fine grained SLIGHTLY WEATHERED BASALT.		
34.00_	1		34.00	100	94	94	2/2/	4	Fractures are closely to moderately spaced, subhorizontal, clean, rough and undulated.		
-						200	2/2	(02.90)			
35.00	-		35.00	100	80	72 89	23	+			
54.72	-		35.45	100	60	30	12/4	35.90			
36.00_	7		36.00	100	00	5.0		(00,60)	35.90 - 36.50 m Purplish grey, weak to moderately strong, non vesicular, laminated, medium medium to fine grained HIGHLY TO MODERATELY WEATHERED AGGLOMERATE.		
37.00_	-		37.00	100	62	42	X	36.50	Fractures are extremely closely spaced, subhorizontal, rough and undulated.		
37,00	3						10	E	36.50 - 43.00 m		
38.00_	-		38.00	100	95	95	B	Ł	Purplish grey, strong to very strong, compact, medium to fine grained SLIGHTLY WEATHEREI AGGLOMERATE. Fractures are medium to widely spaced, subhorizontal, clean, rough and		
	1		1.1				X	(06.50)	undulated.		
39.00	1		39.00	100	94	94	K	+			
1000		1		1	1	1 1	11	V.F			

	GEOT	ECH	TRA	IMITÉ	E	- الماك	.33		GEOTECHNICAL INVESTIGATION AT CHITRAKOOT			
	CC	R	EHC	LE	L	OGG	ING		Sheet: 3 of 3 DRILLHOLE BH C6			
Logged	-	_				Drilled by	: S.Guy					
			21.11.20						Drilling started: 12.11.2012			
			21.11.	2012	_		-		Drilling completed: 16.11.2012  Hole diameter: 101 mm			
Locatio	_	hitral		r. 24	_	-		_	Depth: 50.00 m			
Drilling			Rotary H		-				Depart Solve in			
						Desig- 00 mm)			STRATA			
Depth (m)	Type of sample for lab testing	SPT	Drilling Run	Total core recovery (%)	Solid core recovery (%)	Rock Quality Desig- -nation (%>100 mm)	Legend	Thickness (m)	STRATA DESCRIPTIONS			
40.00			14				(X)	40,00	(Continued)			
41.00_			41.00	100	82	82	01	(06.50)	36.50 - 43.00 m  Purplish grey, strong to very strong, compact, medium to fine grained SLIGHTLY WEATHER			
					7.2		4/1	(00.50)	AGGLOMERATE. Fractures are medium to widely spaced, subhorizontal, clean, rough and undulated.			
42.00			42.00	100	83	83	X	+				
-			43.00	100	100	100	Ø,	1				
43.00			43.00	100	100	100	12/1	43.00	43.00 - 45.00 m			
44.00_			44.00	100	86	86	15/1	E	Grey, very strong, compact, fine grained SLIGHTLY WEATHERED BASALT. Fractures medium to widely spaced, clean rough and undulated.			
-	1					7-7/	2/24	(02.00)	inculain to watery spaces, ordan rough and anomaly			
45.00_	1	114	45.00	100	90	90	22	45.00	45.00 - 49.00 m			
			(LE)				2	7	Purplish grey, strong to very strong, compact, medium to fine grained SLIGHTLY WEATH AGGLOMERATE. Fractures are medium to widely spaced, subhorizontal, clean, rough and undulated.			
46.00			46.00	100	96	96		£				
-	]		15.5			***	0/	+				
47.00_	1		47.00	100	100	100	ZX	(04.00)				
40.00	1		48.00	100	92	92	W	4				
48.00_	1					1	1	£				
49.00_	3		49.00	100	92	85	ZX	40.00				
	1						2/2	49.00 (01.00)	49.00 - 50.00 m  Grey, very strong, compact, fine grained SLIGHTLY WEATHERED BASALT. Fractures are medium to widely spaced, clean rough and undulated.			
50.00	1		50.00	100	85	85	77	50.00				
-	7							F	End of porchoic			
51.00_	-					1 1		F				
-	1		1		1	V (		-	4			
52.00_					1			E				
53.00_	3							-				
_	-							2				
54.00_	1							1				
. 15	-					1	- 1	E				
55.00	3		1			4 1		-				
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	4		1					_				
58.00	1							-				
-	-				8			F				
59.00	-							-				
60.00		1						F				













PROJECT GEOTECHNICAL INVESTIGATION AT CH C/HOLE BH.C.6 DEPTH 600-800 M	0-150=3 150-125=3 225-300=4 300-375=3
ATE 12.11.12	375-450-4 NV-14









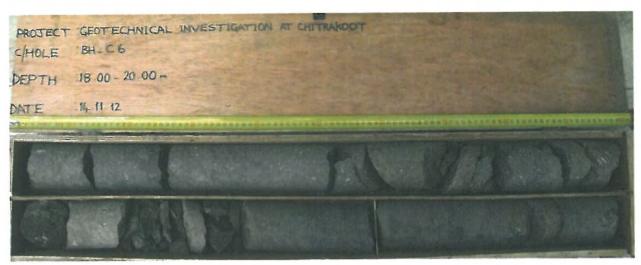






























PROJECT CECTECHNICAL INVESTIGATION AT CHITA/KOOT

C/HOLE BH.C.6

DEPTH 30.00 - 32.00 
DATE 15 11 12

































#### GEOTECHNICAL INVESTIGATION SOTRAVIC LIMITÉE AT QUATRE SOEURS. DRILLHOLE BH 01 COREHOLE LOGGING Sheet: 1 of 2 Logged by: RG Drilled by : L.Casimir Drilling started: 10.10.2012 Date of Logging: 19.10.2012 Drilling completed: 13.10.2012 Date of photograph: 19.10.2012 Hole diameter: 76 mm Location: **Ouatre Soeurs** Depth: 21.00 m Drilling method: Rotary Head APAFOR 38 Drilling rig: STRATA гесочег / Desigrecovery sample testing Rock Quality I -nation (% -100 Depth (m) Drilling Run core (%) SPT Solid core Thickness Jo STRATA DESCRIPTIONS Type of for lab t 8 (m) otal 00.00 - 00.55 m Grey, soft to firm GRAVELLY SILTY CLAY. 00.00 (00.55) 100 0.55 00.55 00.55 - 02.00 m SPTI 01.00. 100 0 1.00 Brownish grey, firm to stiff, moderately plastic GRAVELLY SILTY CLAY, COLLUVIUMS. N=6 (01.45) 100 02.00 02.00 - 03.50 m 100 0 0 Grey to brownish grey with cream discoloration at fractures, weak HIGHLY WEATHERED (01.50) 3.00 100 0 0 03.00\_ AGGLOMERATE/BRECCIA. 100 28 0 3.50 03.50 03.50 - 07.80 m 0 4.00 100 0 vv 04.00\_ Grey with brown discoloration at fractures, weak to moderately strong, non vesicular, medium to 33 vv 100 33 4.45 fine grained HIGHLY TO MODERATELY WEATHERED BASALT, occcasionally fragmented. 20 Fractures are very closely to closely spaced, subhorizontal to subvertical, smooth to rough and 100 20 05.00 5.10 (04.30) undulated. v 22 100 06.00\_ 6.00 v 100 0 0 6.45 07.00 100 19 7.35 100 0 18 30 100 08.00\_ - 07.80 07.80 - 08.70 m Grey, strong to very strong, compact, fine grained SLIGHTLY WEATHERED. (00.90 Fractures are closely spaced, subhorizontal, clean, smooth to rough and undulated. 100 59 08.70 08.70 - 10.00 m Purplish brown, strong with occasional tiny voids, medium to fine grained 09.00\_ 100 100 9.00 SLIGHTLY WEATHERED AGGLOMERATE/BRECCIA. Fractures are moderately spaced, (01.30 clean, smooth to rough and undulated 9.90 100 92 92 10.00\_ 10.00 - 17.00 m Grey, strong to very strong with occasional vesicles and tiny voids, medium to fine grained 11.00 11.00\_ SLIGHTLY WEATHERED BASALT with occasional segments of agglomerate. Fractures are 30 11.50 100 subhorizontal to subvertical, closely to widely spaced, clean, rough undulated and occasionally 74 74 12,00 100 12.00 infilled with quartz/zeolite. 12.70 100 100 100 13.00\_ 13.00 85 (07.00 100 95 14.00 14.00. 15.00 15.00 100 78 63 82 100 82 15.45 100 72 54 16.00 16.00\_ 60 45 100 16.85 17.00 17.00 17.00 - 18.00 m Purplish grey to purplish brown, strong to very strong, compact, medium to fine grained SLIGHTLY WEATHERED AGGLOMERATE/BRECCIA, Fractures are moderately (01.00) 100 92 92 spaced, subhorizontal, rough and undulated. 18.00\_ 90 18.00 - 21.00 m Grey, strong to very strong with occasional vesicles, medium to fine grained 90 100 18.45 SLIGHTLY WEATHERED BASALT. Fractures are closely to moderately spaced, subhorizontal, 65 50 19.00 100 clean, rough and undulated. 19.00\_ (03.00 (Stratum continues down to 21.00 m.) 100

	GEOTI	SO1	RA\	/IC					CAL INVESTIGATION QUATRE SOEURS.	
	00	יינור	TITO	AT TO	T	OCC	INC			— DRILLHOLE BH Q1
			EHC	LE	_	OGG			Sheet: 2 of 2	Contract to the second of the first
	l by :		an vin vi	214		Drilled by	; L.Casimi	r	Delling started : 10 10 20:	12
	Loggir				-				Drilling started: 10.10.20	
Date of	photog		19.10. Soeurs		_	-			Hole diameter: 76 mm	
	g metho	_							Depth: 21.00 m	
_	g rig :		FOR 38							
mdeca (m)	Type of sample for lab testing	SPT	Drilling Run	Total core recovery (%)	Solid core recovery (%)	Rock Quality Desig- -nation (%>100 mm)	Legend	Thickness (m)	STRATA	A DESCRIPTIONS
	Tyl		D	Tota	Soli	Roc-nati		上 20.00		
00.00							11/2	(03.00)	Continued) 8.00 - 21.00 m Grev. strong to ver	y strong with occasional vesicles, medium to fine grained
21.00_	1		21.00	100	63	50	77	21.00	LIGHTLY WEATHERED BASALT	Fractures are closely to moderately spaced, subhorizontal
-	1							-	lean, rough and undulated.	
22.00	]						11 42	-	nd of borehole	
-								F		
23.00_	1		1					E		
24.00_	3			1				_		
	1							Ė.		
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	1					1 1		F		
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32.00	7			1				E		
32.00	7	1	1	1				E		
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	=			1		1 1		F		
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