BORE HOLE LOG SHEET 1/12 LOCATION: Dam Axis (L/B) DRILL HOLE NO.: B-4 COORDINATES: **DIRECTION: 287°** INCLINATION: 80° CASING DEPTH: NW (5.30m), DRILLING MACHINE: LONGYEAR WATER TABLE: 20.0 DRILLING METHOD: Rotary Drilling / Wire line System Classification Alteration/Weathering Description of Core Remarks/Test results Recovery % Ε RQD % Other Tests Discontinuities Æ Run Depth, Classification Weathering 2 Description of Rock/Soil Permeability Filling Material Roughness ROD 885 Orlentation 2 REC F-SW R,PI 23 0 to 0.25 m gravel size Calc 63 fragments of grey dolomite 0.25 m to 0.7 m sludge obtained from grinding of dolomite 1.00 0.7 m to 1.9 m ≈ MB (Top of the bed rock at the surface) 2 ≀ 3 2.00 SW R,PI none 100 0 2 MB hard grey dolomite 2.20 Hard, strong, grey coloured 45° Sm,P Calc 100 3.00 dolomite. 3 At 2.25 m = MB СН 2 2 3 Hard, strong, fresh, grey coloured dolomite. 4.00 F-SW B.Pi Calc >10 32 0 3.75 m to 4.30 m ≠ sludge 4 30 m to 4 40 m - MR Hard, strong, grey dolomite 4.40 m to 4.55 m = sludge F∙SW 30° R,PI Calc >10 75 0 5 5.00 4.55 m to 5.0 m ≈ M8 2 2 3 F-SW30°,50 R,Pt Calc 100 23 Hard, strong, fresh, grey 6 } 3 5.0 m to 5.14 m = MB 6 6.00 2 3 Hard, strong, grey dolomite with 7.00 F-SW 40° R,PI Calc 5 100 37 quartz veins 2 2 3 8 8.00 8.00 Hard, strong, grey dolomite F-SW 50° R,Pi Calc >10 100 70 2 3 9.00 MB/FZ Hard, strong, grey 2 0 } 3 dolomite with quartz veins пове 100 (Highly jointed)
MB Hard, strong, grey dolomite R,P 100 CH 2 2 3 with quartz veins (highly jointed) 10 ABBREVIATIONS: F- Fresh, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely Weathered, MB-Mechanical Break, Pi-Planar, Sm-Smooth, R-Rough, St-Stepped, FeO-Iron Oxide, Ci-Clay, Si-Silt Started: 2060/12/13 Completed: 2061/01/20 Drilled by:S.R.Timilasina, T.Neupane, D.Siwakoti Logged by: S.K.Karmacharya Reviewed by: J. M. Tamrakar

DHILL	HOLE	10.:4			[eriptic	m Axi	s (L/B	Co	****				Τ		ر ا		ock i ssifi	
	E			hering		ontinu		ı	Recov RQI	егу ?	*	Ħ		(uoeßi	22	result	Т		Cati
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Alteration/Weathering	Orlentation	Roughness	Filling Material	Joints/m	REC %	800%	20	60	100	Permeability (Lugson)	Other Tests	Remarks/Test results	Classification	Weathering	Hardness
11.00	11.00		Hard, strong, grey dolomite 10.15 m to 10.55 m ⊭ MB	F		Sm, P	Calc	>5	100	54							СН	1 2 2	2
	11,B0		Hard, strong, grey dolomite	F	50°	R,PI	Calc	5	100	38									
12.00			Hard, strong, grey dolomite	t.	10°, 50	Sm, P	Calc CI	3	100	47				Lu 2	=1		СМ	1 2	2 ? 3
13,00	13.20		Hard, strong, grey dolomite	F	70°	Sm, P	Calc	1	100	87							В	1	2
15.00	1		Hard, strong, grey dolomite 14.50 m to 15.0 m = sludge	F	30°,50	R,PI	Calc	1	67	51									<
16,00	15.50		Hard, strong, grey dolomite 16.10 m to 17.0 m ≃ sludge	F	60°	R,PI	Cafe	2	40	17					1		В	1 2 2	2
17.00	17.00								-					Lu 30					<
18.00			Hard, strong, grey dolomite 17.0 m to 17.50 m = MB/FZ	F	70*	R,PI	FeO Si	>3	100	38				2			CM	2	3
19.00	18.50		Hard, strong, grey dolomite 19.0 m to 19.28 m ≃ Coreloss	F	65°-76	R,PI	FeO	>3	80	7		1					СН	~ 2	2
20.00	20.00													Lu 44 0	I = I.3		СМ	2	2 ~ 3

Description of Rock/Soil Hard, strong, grey dolomite 20.30 m to 20.65 m = MB Hard, strong, grey dolomite 21.50 m to 21.65 m = MB	Alteration/Weathering	Disc Orlantation	See au de la criptio	n of	E (L/B)	Col ROD % Day	егу %	20	2 8	100	Permeability (Lugeon)	Other Tests	Remarks/Test results	Cla	nssifi	Mass	n
Hard, strong, grey dolomite 20:30 m to 20:65 m = MB Hard, strong, grey dolomite 21:50 m to 21:65 m = MB	F-SW	00.00.00.00.00.00.00.00.00.00.00.00.00.	Roughness	Filing Material	Joints/m	RGD % SOME	ery %		2 88	100	meability (Lugeon)	Other Tests	arks/Test results	Cla	nssif!	catio	n
Hard, strong, grey dolomite 20:30 m to 20:65 m = MB Hard, strong, grey dolomite 21:50 m to 21:65 m = MB	F-SW	9 0 Orientation	Roughness	Filling Material		REC %		02 Q	8 8	100	meability (Lu	Other Test	ırks/Test r	sification	thering	iness	acing
20.30 m to 20.65 m = MB Hard, strong, grey dolomite 21.50 m to 21.65 m = MB		60°	A,PI	FeO	8						Pen		Remi	Clas	Wea	Haro	Joint spacing
21.50 m to 21.65 m = MB	sw	500	ı E			100	32				Lu 44 0	- 1		СН	1 2	2	2 ~ 3
Hard, strong, grey dolomite			Sm, P	FeO	>5	100	25							СМ	1 2 2	3	3 2 4 3
Hard, strong, grey dolomite	sw	40°	A,PI	FeO FeO	2 >3	100	45 20								_	3	4
Hard, strong, grey dolomite 24.25 m to 24.50 m = MB	sw	60°	R, Pi	Calc	3	100	28					u = 3.7		СН	1 2	2	3
Hard, strong, grey dolomite 25.40 m to 25.50 m ≘ MB	F	40°,50 60°	FI, PI	none	4	100	44									2	3
Highly joinetd hard, strong, grey dolomite	F	10°	R,PI	Si		100	o							СМ	2	3	3 ≀ 4
Hard, strong, grey dolomite	F	50°,70	A, PI	поле	2	100	48										
Hard, strong, grey dolomite	F	20°	Sm, P	none	5	100	50							СН	1 2	2	2 } 3
Hard, strong, grey dolomite	F	50°,70	R, PI	FeO	6	100	60										
	Hard, strong, grey dolomite Hard, strong, grey dolomite h, SW-Slightty Weathered, MY	Hard, strong, grey dolomite F Hard, strong, grey dolomite F	Hard, strong, grey dolomite F 20° Hard, strong, grey dolomite F 50°,70 h, SW-Slightly Weathered, MW-Moderately	Hard, strong, grey dolomite F 20° Sm, F Hard, strong, grey dolomite F 50°,70 R, Pl h, SW-Slightty Weathered, MW-Moderately Weatherel Break, Pl-Planar, Sm-Smooth, R-Rough, St-Ste	Hard, strong, grey dolomite F 20° Sm, P none Hard, strong, grey dolomite F 50°,70 R, PI FeO h, SW-Slightly Weathered, MW-Moderately Weathered, H	Hard, strong, grey dolomite F 20° Sm, P none 5 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 h, SW-Slightty Weathered, MW-Moderately Weathered, HW-High	Hard, strong, grey dolomite F 20° Sm, P none 5 100 Hard, strong, grey dolomite F 50°,70 R, P) FeO 6 100 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly We	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weather	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, PJ FeO 6 100 60 h, SW-Slightty Weathered, MW-Moderately Weathered, HW-Highly Weathered, C	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Co	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, P) FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Complete	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 Hard, strong, grey dolomite F 50°,70 R, P) FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 CH Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 CH 1 2 Hard, strong, grey dolomite F 50°,70 R, Pl FeO 6 100 60	Hard, strong, grey dolomite F 20° Sm, P none 5 100 50 CH 1 2 2 Hard, strong, grey dolomite F 50°,70 R, PJ FeO 6 100 60 h, SW-Slightly Weathered, MW-Moderately Weathered, HW-Highly Weathered, CW-Completely

			ВОР	1	. •									Ψ,		r 4/1	-			
DRILL H		IO.:4		LOCA Bu		: Dan			Co Recov		6			i i		sufts			Mass	
Depth, m	Run Depth, m	rog	Description of Rock/Soll	Alteration/Weathering	Orientation G	Roughness	Filling Material se	Joints/m	REC %			9 3	980	Permeability (Lugeon)	Other Tests	Remarks/Test results	Classification	Weathering	Hardness	Joint spacing
31.00	00.50···		Hard, strong, grey dolomite 31.35 m to 31.80 m = Coreloss	F	50°,70	Ŗ	Calc	3	100	22							СН	1 }	2	3
32.00	32.00		Hard, strong, grey dolomite	F	40°,70	Sm, P	Calc, FeO	4	100	80					u = 3.7				\leq	/
33.00	32.50		Hard, strong, grey dolomite	F	20°,40 70°	R, PI	calc	6	100	56							В	1 2	2	1 2
35.00	35 <u>.10</u>		Hard, strong, grey dolomite	F-SW	50°	A, Pi	FeO	3	100	81										
37.00	36.50 37.20		Hard, strong, grey dolomite 36.70 m to 37.0 m = MB 37.0 m to 37.2 m æ Coreloss MB/FZ Highly jointed hard, strond. orev dolomite	F	60°	A, PI R,PI		2	71	20							СМ	2	3	4
39.00	38,00		Hard, strong, grey dolornite	F	40°,70	R.PI	попе	6	100	25					.u = :.00		Cŀ	1 2	2	3
40.00 ABBREV	39.50 /IATION	S: F- Fr	esh, SW-Slightly Weathered, M	W-Mode	erately	Weath	ered, H	W-High	hly Wo	eathe	red,	CW-C	Compl	etely						
SRC Lai	, NEA		nical Break, Pl-Planar, Sm-Smoo		Start	ed: 20	60/12/1	3		Com	plete	d; 20	61/01/ mrake							_

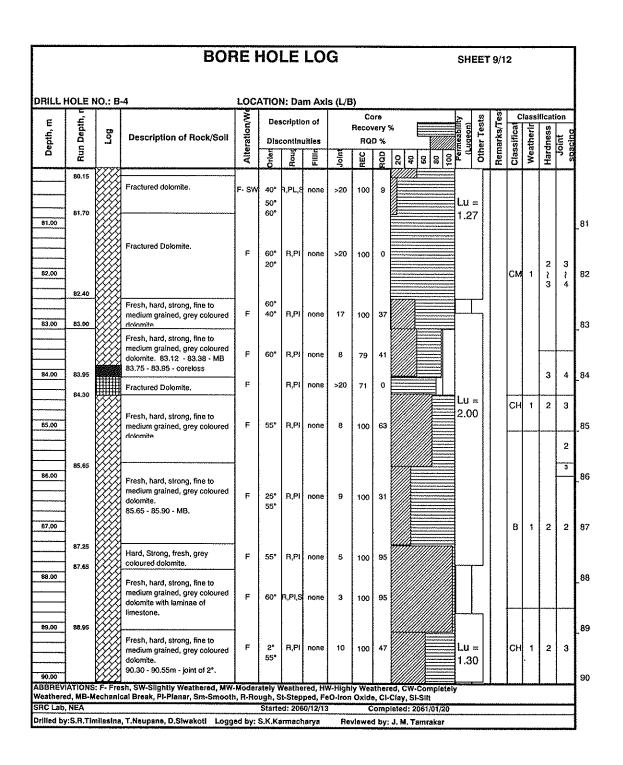
			BOF	RE I	101	E	LO	G							SH	EET	5/1	2				
DRILL I	IOLE N	IO.:4		LOC	ATION	l: Da	m Axi	s (L/B	ı)													
	10221	04				criptic			Co			-			(E		鸅			Mas ficati		
E.	oth, m	_		eather	Disc	ontini	ılties		Recov		П				(Lugeo	ests	st rest	по	Ð,	8	ing	
Depth, m	Run Depth,	Log	Description of Rock/Soll	Alteration/Weathering	Orlentation	Roughness	Filling Material	Joints/m	REC %	8 dor	20	8 2	8 8	100	Permeability (Lugeon)	Other Tests	Remarks/Test results	Classification	Weathering	Hardness	Joint spacing	
41.00	41,00		Hard, strong, grey dolomite	F	60°	R, Pi	none	2	100	63					Lu 2.0	- 1					3	41
42,00			Hard, strong, grey dokomite	F	45	FI, PI	none	3	100	56					Lu 2.5						2	42
43.00	42.60			F	40°,50	R, PI	none		100	72								СН	1	2	3	43
44,00	44,20		3.3 ,		,,,,		,,,,,,			'~						_		0.1	2			44
45.00			Hard, strong, grey dolomite	F	25°	R, Pl	FeO	3	100	65					Lu 6.4						3	45
46.00	45,65		Hard, strong, grey dolomite	۴	50°,40	R, Pi	FeO	4	100	88					0."	2					2 2 3	46
48.00	47.25		Hard, Strong, grey dolomite	Ħ	70°,30	R, PI	CI	3	100	79												48
49.00	48.75		Hard, strong, grey dolomite	F	40°,60	R, Pi	none	5	100	50					Lu 1.5	- 1		В	1 2	2	2	45
50.00					<u> </u>				<u> </u>									СН			3	50
Weather	ed, MB-1		esh, SW-Silghtly Weathered, MW Ical Break, PI-Planar, Sm-Smoot		ough, S	t-Step	ped, F	eO-Iror	Oxid	e, Cl	Clay	, SI-S	ilt		ly							
SRC Lab	·····		- W 41				50/12/13			Comp								+				ł
Drilled b	y:S.R.TI	milasin	a, T.Neupane, D.Siwakoti Logg	ed by:	S.K.Ka	armac	harya	Re	viewe	d by	J. N	. Tan	nrak	ar								1

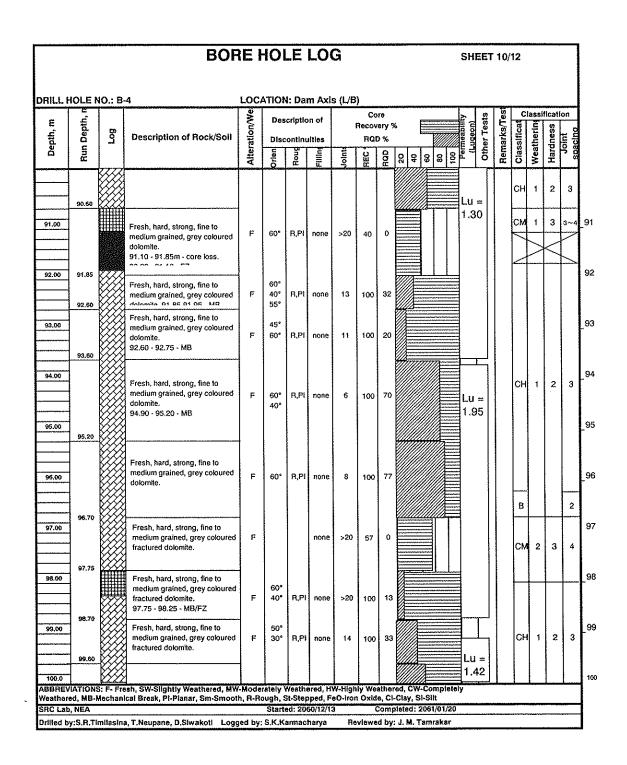
DRILL I	HOLE	10.:4		LOC	ATION	l: Da	m Axis	s (L/B				****		,		,,	,,	~		
				ring	Į.	criptic	- 1		Co tecov	ery %	,		********	(uo		ults	H	10CK	Mas	5
Depth, m	Run Depth, m	Log	Description of Rock/Soll	Alteration/Weathering	Orientation	Roughness House	Filling Material sela	Joints/m	BEC %	ж.	20	9	80	ermeability (Lugeon)	Other Tests	Remarks/Test results	Classification	Weathering	Hardness	Joint spacing
	50.25				0								11		ڑے		СН	7	2	3
51.00			Hard, strong, grey dolomite 50.70 m to 50.95 m≃ MB	F	70°,50	R	none	>5	100	30							СМ	2 1~2 1		4 2 ? 3
52.00	51.80		Highly jointed Hard, strong, grey dolomite 51.80 m to 52.25 m⇒ MB	F	50°	R, PI	none		100	48							СМ	2	3	4
53.00	53.15		Hard, strong, grey dolomite	T.	50°,60	R,PI	none	4	100	80				1 2.			сн	1 { 2	2	2 ~ 3
55.00			Highly jointed Hard, strong, grey dolomite 54.60 m to 56.0 m= MB	F	30°,40	R, P	none	>7	100	61										
57.00	56,15		Highly jointed Hard, strong, grey dolomite 56.25 m - 56.40 m= Coreloss	F	60°,40) R,P	none	>7	88	27					1 = 1		СМ	1 ~ 2	2 2 3	3
58,00	57.95		Hard, strong, grey dolomite	F	30°,60 70°	(Sm, 1	None	5	100	70					64		В			2
59.00	59.00		Hard, strong, grey dolomite	F	55°,7' 40°		none	>8	100	69							CI-	1	2	2

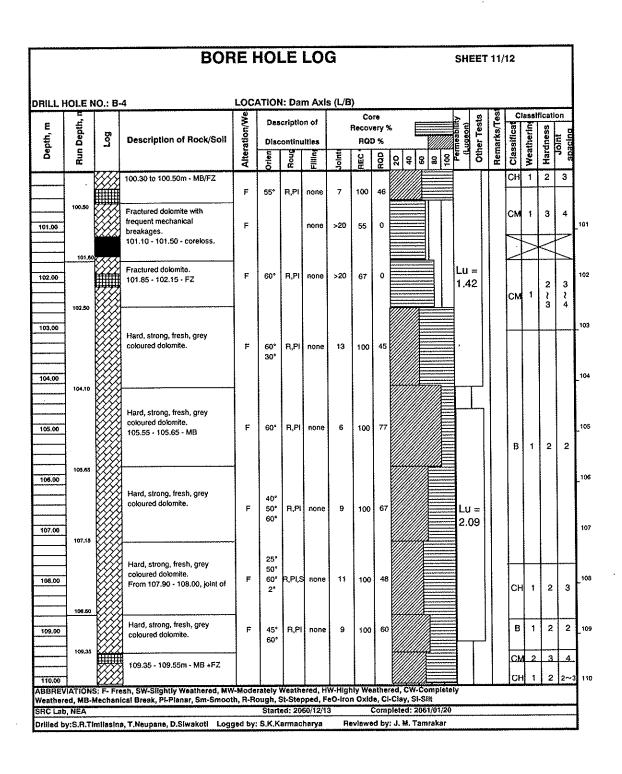
Oepth, a	į	: B-		-	ATION	i: Dai											l
Depth, m	Run Depth, r	60		-			II AXI	s (L/B					- 1 12				_
å			Description of Rock/Soil	Alteration/W		criptio		1	Co Recov	егу %		(Lugeon)	Other Tests Remarks/Tes	Classificat	Weatherings	Hardness	Joint 3
				¥	Orien	Rous		Join	REC	ရ ရ	8 8 8 5		5 2	끙	š	Ê	າ g
				F	40°				100	0							
\$1.00	60.60		Fresh, hard, strong, medium to fine grained, grey coloured dolomite.	F	40° 25°	8. PI	none	13+MB	100	30		Lu = 1.82	11				3
52,00	61.40		Fresh, hard, strong, medium to fine grained, grey coloured dolomite. 62.44-62.44m - MB	F	60° 65° 30°	A,PI,S	none	6	100	64				СН	1	2	2 ~ 3
64.00	3.00		Fresh, hard, strong, medium to fine grained, grey coloured dolomite. 63.83-64.40m - MB	f	25° 60°	R,PI,S	none	10	100	38				СМ	1	2 ~	3 }
65.00	M-40		Fresh, hard, strong, medium to fine grained, grey coloured dolomite. 64.40 - 64.53- MB 65.00 - 65.30 - MB	F	30° 40° 60°	R,PI,S	none	12	100	20		Lu = 5.22	1 1	СН	42	2	3
	56.60 56.60		65.65 - 66.00 - FZ From 66.35 to 66.55, a joint parallel to drill axis.	F	04° 40° 50°	R,PI,S	none	>20	100	o			_	CM	2	2 2 3	3 ≀ 4
67,00			Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	F	30° 55°	R,PI,S	поле	16	100	27							
69.00	68.00		Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	F	40° 55°	R, P	none	6	100	78				Cŀ	1	2	2 ≀ 3
70.00	69.60											Lu 2.3					3
BBREVIAT eathered, RC Lab, N	MB-Meci	- Fre	sh, SW-Slightly Weathered, MW cal Break, PI-Planar, Sm-Smootl	-Mode h, R-R	ough,	St-Ste	ered, F oped, F 60/12/1	eO-Iro	n Oxid	e, Cl	red, CW-Complet -Clay, SI-Slit oleted: 2061/01/20						

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	Depth, n					criptic		s (L/B)	Co Recov			on)	Tests	cs/Tes			icatio 8	
repui,	Run De	log	Description of Rock/Soil	Alteration/W	Disc	ontinu	ities E	Join	RC	30D	2 3 8 8 5	Permeabili (Lugeon)	Other Tests	Remarks/Tes	Classifica	Weatheri	Hardness	spacing
.00			Fresh, hard, strong, fine to medium grained, grey coloured dolomite. 69.60 to 69.95 is MB.	F	50°	R,PL		5+MB		69	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lu 2.3			В	1	2	2
2.00	71.17		Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	F	60° 55°	R,₽ì	none	9	100	59								3
3.00	72,70		Fresh, hard, strong, fine to medium grained, grey coloured dolomite. From 73.30 to 74.07m, joint is	F	3° 10° 40° 60°	R,P1	none	13	100	25		1.0			СН	4***	2	3
5.00	74.25		Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	7	55°	R, PI	none	1	100	100					В	1	2	2
77,00	75.80		Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	F	55°	R, P	none	5	100	85					В	1	2	1 2
8.00	77.30		Fresh, hard, strong, fine to medium grained, grey coloured dolomite. 78.04 - 78.08 - shear zone. 78.08 - 78.50 - shear affected zone.	F	60° 70° 20°	•	calc	9	100	58			ı = 27		СМ	2	3	3 2 4
9.00	78.90		Fresh, hard, strong, fine to medium grained, grey coloured dolomite.	F	30° 50°		S none	11	100	40					СН	1	2	3







	IOLE N	O.: B.	4				m Axi	(L/D	Co	re		>	ŧ,	S)	ÇI	essif	catio	n
	Depth,	5o-	Description of Rock/Soil	lon/V		criptic		1	roos RQR	-	6 	meability (Lugason)	Other Tests	rks/T	ficat	erin	1683	ina
nebiu,	Run D	3	Description of nock con	Alteration/We	Orten	Pour	E E	olnt	EC .	AGD %	2 4 8 8 5		Og he	Remarks/Tes	Classifica	Weatherin	Hardness	spacing
-	-		110.00 - 110.15m - FZ	₹	<u>ن</u> 60°	ř. R,Pi	попе	용 8	řC 100	<u>τ</u> 50				-		^		
	110.15	·····																
			Hard, strong, fresh, grey coloured dolomite.		35°													2
.00			110.15 - 110.25 = FZ 110.68 - 110.75 = M8	F	50° 60°	R,PI	none	10	100	52		3			СН	1	2	3
					"													
	111,65		Hard, strong, fresh, grey															
.00			coloured dolomite. 112,50 - 112,75 = FZ/MB	F	50°	R,PI	none	7	100	43								
\neg			112.50 - (12.75 = 1 2486		60°													
.00	112,75										0						2	3
			Hard, strong, fresh, grey coloured dolomite.	F	50°	R.PI	none	>20	100	15					СМ	1	}	≀
			112.75 • 112.94 ≈ FZ/MB	「	60°	11,71	110116	72.0	100	15								-
.00																		
	£14,10		Grey coloured, fractured	F	45°	P,PI	none	>20	100	0	4							
	114.60		dolomite.	-							7/2							
.00			Hard, strong, fresh, grey	F	35°	R,PI	поле	13	100	26		-	Ц,		СН	1	2	3
			coloured dolomite. 115.75 - 115.95 ≈ FZ		60°	113,51	sione	,,,	100	20						·		_
																3		
3.00	115,95	***	116.05 - 116.30 = coreloss	F	60°	R,PI	попе	9	29	0		7					3	_
	116,30		Hard, strong, fresh, grey	1											СМ	1	3	4
7.00			coloured, fractured dolomite. 116.30 - 116.80m = coreloss	F			попе	>20	44	0								
	117.20		11000 11700 67	-							////	\exists L	ı =		\vdash	_		
			Hard, strong, fresh, grey coloured dolomite.	F			none	11	100	25		≣3.	39					
8,00	1		117.20 - 117.65 ≈ FZ	[ione	'`	'00	"								
	118.30			_											СН	1	2	3
			Hard, strong, fresh, grey coloured dolomite.	F	40° 60°	R,Pi	лопе	16	100	0								
9.00	119.00	XXX		-	60°													
	1		Hard, strong, fresh, grey coloured dolomite.	۴	30°	R,P	none	15	100	26								
	119.65		Hard, strong, fresh, fractured,	1											\vdash	\vdash	-	
0.00			grey coloured dolomite with frequent mechanical breakages	F	60° 40°	R,P	none	>20	100	o			ļ		ļ.,		,	3
	120,50														JUN	1	3	4
			End of hole at 120.50m esh, SW-Slightly Weathered, MV	1			1		<u>L.</u>	<u>L</u>					_			<u> </u>

BORE HOLE LOG

SHEET 1/10

DRILL HOLE NO.: B-5

COORDINATES:

X: 3092798.93

Y: 525459.84

Z: 307.93

INCLINATION: Vertical

DRILLING MACHINE: Long Year

DIRECTION:

CASING DEPTH: NW: 17.55 m

			Long Year Rotary Drilling / Wire line Syster	n 		Diese	ntinuit	WATE	R TAI	BLE:	0.0		n		Т		*****			Mas	
E.	tt, m	.		m/i		Charac	teristic	4	٠٨%	%	Re	c.		7777		ns)	ests			ficati	
Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	RQD %	П	\$ av	09	8 5	33	rermeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
		9	ALLUVIUM Consisting of Fragments of					***************************************					٦		T		******			- Anna Paragraph	-04499999
		90	gneiss, quartzite and calc.																		
1.00		\circ	rocks.										1								
		5^{\vee}																			
		\circ_{\wedge}																			
	1.60	ွ	ALLUVIUM										١								
2.00			Consisting of calc rocks and										-	-	1						
		್ರ	schists. Max size of fragments						١.		Ш		1		1						
		20	upto 7 cm.								Ш										
	2,75	Ö		1									1	1							
3,00		0																			
		0	Consisting of dolomite.																		
	3,30	$\succeq 0$	Grey, mediumerately hard,	1																	
		Ξ^0	fractured dolomite and gravels	l											İ						
4.00			of schist from 3.30 m - 3.90m							İ	\sqsubseteq	Ш	٦l		1						-
			Bed rock at 3.90 m	>20	sw	20°, 50°	PI, St	none	55	0			3		1						
	4.30		DOLOMITE				F:								1						
			Grey, hard to medium hard,	>20	sw-		۶, pl	FeO	50	0		===		1	1			СМ	2	3	4
5.00	5.00		fresh, fine grained & fractured	l	MW							=======================================	3	1							
	5.40		Coreloss due to fracture zone mechanical grinding and	>20	SW	30°	r, pl		38	0											
			closely spaced joints.												∄						
	5.80			>20	sw	50°	r, pl, st	calc	100	0					▤			D			5
6,00	6,00		Fractured zone noticed from	>20	F-SW	5°	r, pl	calc	100	٥	777	77			-			СМ	_	<u> </u>	4
			3.90 m to 6.60 m 7.00 m to 8.95 m.										*****								
			9.90 m to 10.03 m.	>20	F-SW	20°,50°	r, pl, st	calc,	85	30								СН	2	3	3
								FeO				/ =									
7,00	7.00		The actual depth of lost zones could not be traced because of	>20	E 614/	60°,50°	* 61	2010	100	٥		2						-		⊢	⊢
			its broken nature.	>20	P-544	00',50	r, st	caic, FeO	100	,											
	7.50														Ħ						
			1	l														 	_	١.	١.
8.00]	>20]F-SW	60°,25°	r, p1	FeO	89	0								СМ	2	3	4
	8.40																ĺ				
		 	1	>20	F-SW	70°,20°	r, pl	calc,	73	0											
			1		ĺ			FeO	ł					1						1	
0.00_	9.05		1	16	F	70°,50°	t plet	Calc.	100	0			-	1				\vdash	 	t	
		}	1	1	l	40°	,, p,, sı	ORK.	,,,,	ľ					=						
	1	ŧΖΧΧΧ	1	ŧ	I			1	1	ı	===				=		1	СН	2	2	3
	9.45	XXXX	1		l				1	l	===							100	-	٦.	١ ٠

MB-Mechanical Break, CL-Coreloss, PI-Planar, Sm-Smooth, R-Rough, Ir-Irregular, FeO-Iron Oxide, CI-Clay, Si-Silt, calc-calcic

SRC Lab, NEA

'VA

Completed:2061.10.04

Drilled by:S.R. Timilshina/T.Neupane Logged by: S.K.Karmacharya

Reviewed by: J. M. Tamrakar

Started:2061.08.30

HILL F	IOLE N	J.: B-5)	100	ATION	: Dam Discor	***************************************		П		Core					Mas	
_	E					Charact			%		Rec.	S) III	sts	 		fication	
Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m	Weathering	orlentation	Roughness	Filling Materials	Recovery %	RQD %	00 P Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
			DOLOMITE		70000	75°		*****************************		-							
	10,50		Grey, hard to medium hard, fresh fine grained & fractured Coreloss due to fracture zone	>20	F	40°,60°	r, pi	Calc.	100	0				CH	2	2	3
11,00			mechanical grinding and closely spaced joints. Most of the cores are broken	>20	F-SW	50°	r, pi	Calc Feo	35	0				СМ	2	3	4
12.00	11.80		into small fragments from 10.50 m - 12.10 m	>20	F	70°	r, pi	none	23	0							
	12,10		12.31 m - 12.80 m 14.95 m - 15.50 m											В	1~2	2	2
	12.80		16.25 m - 16.95 m 18.80 m - 20.00 m	>20	F	75°	r, pl,st	none	57	23				СМ	1~2	3	4
13.00	12.10		Low core recovery is due to mechanical grinding within	19	F	70°	r, pl	none	100	37							
			fractured zones and closely spaced joints.	16	F	50°,60° 05°	r, p‡	none	100	31				сн	1	2	3
14.00			The actual depth of lost zones could not be traced because of														
15.00	14.75		its broken nature.												1	2	_
	15.50			>20	F	50°,10°	r, pl	none	73	0				СМ	} 2	≀ 3	4
16.00	15.50			19	F	20°-60°	r, pl	none	100	15				СН	1	2	3
	16.50			>20	F				93	0							
17.00	16.80			>20	F	50°-60°	r, pi	none	88	0				CM	2	3	4
	17.60					80*											
18.00	1			15	F	30°,50° 60°	r,pl,st	none	100	29				CI	1 2	2	3
	18.40			>20	۴	15°,50° 70°	r, pl	none	92	0						_	_
	19.00			>20	F		r,pl,st	none	56	0		1				2	
20.00	19,80													CN	1 2	3	4
BBRE			স :h,SW-Slightly Weathered,MW-Moderi :L-Coreloss, Pi-Planar, Sm-Smooth, R													-	

			BORE					/#**						SHE	ET	3/10	
RILL F	IOLE N	O.: B-6	5	LOCA		Discor	ntinuity	,	%		Core	- ج				Mass	
Depth, ள	Run Depth, r	Log	Description of Rock/Soll	Joints/m	Weathering	orientation	Roughness	Filling "	Весолегу %	RQD %	Rec. 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
21,00	21.00		DOLOMITE Grey, hard to medium hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured	>20	F-SW	50°	r, p!	FeO	63	0							_
	21,70		zones and closely spaced joints. Most of the cores are broken into small fragments from	>20	F	30°,50° 70°	r, pl	none	86	0				СМ	2	3	4
22.00	22,25		20.0 m - 24.25 m 25.10 m - 25.50 25.50 m - 26.05 m	>20	F	50° 20°,40°	r, pl	none	82 57	0						2	
23.00			26.40 m - 27.00 m 27.55 m - 29.05 m 29.55 m - 30.00 m	>20		50°,70°	i, prost	none	31	·				СН	2	3	3
24,00	23,30 24,00		Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints.	>20	F	50°,70°	r, pl	none	71	0		Value 3.40		СМ	2	3	4
25,00	24.76		The actual depth of lost zones could not be traced because of its broken nature.	13	F	40°,70°	r, pl	none	100	32		Lugeon Value		СН	1 ≀ 2	2	3
	25.50			6 >20	F	30°,70° 40°,70°	r, pl	none	67 91	45 0				СМ	1	2	4
26.00	26,05			>20	F	40°,70° 30°	r, pl	попе	100	16		e 2.68		Cŀ	1	2	3
27.00	27.00			15	F	45°,60°	r, pl	none	87	47		Lugeon Value		В	1	2	2
28.00	27.78			>20	F	50°,60°	r, pl	none	73	o		Lu					4
29.00	28.50			>20	F	50°,60	r, pl	none	90	0		Lugeon Value	±	CN	1 2	1	3
30.00	29.50			>20			r, pl	поле	100	0			1			3	4
MB-Med	chanical I	3:F-Fres Break, C	sh,SW-Silghtly Weathered,MW-Modera CL-Coreloss, PI-Planar, Sm-Smooth, R	tely We Rough	athere , Ir-Irre	gular,Fe	O-iron (oxide, Ci	-Ciay,	SI-SI	t, calc-calcic						
Orilled I		milshin	a/T.Neupane Logged by: S.K.Karm	achary	<u></u>		d:2061.0 evlewe	8.30 l by: J. l			leted:2061.10.04 r						

	OLE NO					Discor					Core							Mas:	
Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m	Weathering	Characton orientation	Roughness	Filling 6 Materials	Recovery %	RQD %	Rec.	0 5	8	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
	<u>m</u>				Wez	orle	Rou	± ₹			2 4	Ψ.	' "			ö	3	-	흣
31.00	30.90		DOLOMITE Grey, hard to medium hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured	>20	F		r, pl		56	0				Lugeon Value 4.14		СМ	1 2	2 ~ 3	4
31.00	31.90		zones and closely spaced joints. Most of the cores are broken into small fragments from	>20	F		r, pi	noné	42	0	Ø			Bn-1					
2.00			29.55 m - 32.00 m 33.75 m - 34.00 m 38.37 m - 39.20 m	16	F	50°,70°	r, pl	поле	93	17				e 1.37		СН	1	2	3
	33.00		Low core recovery is due to mechanical grinding within											Valu		СМ	1	3	4
			fractured zones and closely spaced joints. The actual depth of lost zones	16	F	50°,70°	r, pi	none	100	30				Lugeon Value 1.37		сн	1	2	3
34,00			could not be traced because of its broken nature.	10		30°,40°	ι, μι	lione	100	00				7		СМ	1	3	4
35,00	34.50			20	F	70° 20°,40°	r, pl	поле	100	14						СН	1	2	3
36.00	39.50			11	F	75° 30°,50°	r, pl	попе	100	64				1.86					
37,00														Lugeon Value 1					
	97:15-			7	F	30°,40°	r, pi	none	100	80				Luge		В	1	2	2
38.00	38.37								***************************************							-		_	_
39.00	39.00			>20	F	30°,70' 80°	r, pi	nona	100	17				uo e	СН	CM	1	2 ≥ 3	3 ≀ 4
40,00				14	F	50°,60	r, pl	none	100	58				Lugeon	В	В	1	2	2

Reviewed by: J. M. Tamrakar

Drilled by: S.R. Timilshina/T.Neupane Logged by: S.K.Karmacharya

>m# ! !	IOL T NO	O . D .	BORE					/D\								SHE	ET	5/10		
)HILL I	IOLE N	O.: B-:		LOCA		l: Dam Disco Charac	ntinuity	,	_		Core			_				Mass		
Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	RQD %	Rec.		100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
	40.10		DOLOMITE Grey, hard to medium hard,		*********		**********	************				72				СН	1	2	3	
41.00			fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints.	13	F	40° 50°,60°	r, pi	none	100	42				56		В	1	2	2	4
	41,45		Most of the cores are broken into small fragments from	20	F	40°,60°	r, pl	поле	100	30				ાં		СН	1	2	3	
42.00	41,85		42.65 m - 45.30 m 46.20 m - 47.85 m 48.40 m - 48.50 m	17	F	40°,60°	r, pl	none	83	0				Lugeon Value						4
43.00	43.00		Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints.	>20	۴	20° 30°,60° 70°	r, pl	none	100	0										1
44.00	43.50		The actual depth of lost zones could not be traced because of	>20	F	70°,60°	r, pl	попе	100	0										
	44.25 44.75		its broken nature.	>20	F	20° 70°,60°	r, pl	none	100	0						СМ	1	2 ~ 3	3 ≀ 4	
45,00	45.30			>20 >20	F	10°,60° 10°	sm,r, pl		100 100	0				e 3.08		_				
46.00	46.20			>20	F	30°,60° 70°	sm,r, pl	none	100	0				Lugeon Value		СН	1	2	3	
	46.20			>20	F	30°,15° 70°	r, pl	none	100	17				Luge		СМ	1	2 } 3	3 } 4	1
	47.00			>20	F	30°,40	r, pl	none	100	10										
48,00	48.00					70°										СН	1	2	3	
49.00	48.70			19	F	70°,40	r, pl	none	100			%		alue 4.33						
	49.55			4.0	_	600 10	2 - 1	4	100					Lugeon Value						
50.00	<u> </u>		h,SW-Slightly Weathered,MW-Modera	19	F	60°,40 70°	st	none	100					1 -			<u> </u>			_

MB-Mechanical Break, CL-Coreloss, Pi-Planar, Sm-Smooth, R-Rough, ir-Irregular,FeO-Iron Oxide, Cl-Clay, Si-Siit, caic-caicic

SRC Lab, NEA

Drilled by:S.R. Timilshina/T.Neupane Logged by: S.K.Karmacharya

Started:2061.08.30

Reviewed by: J. H. Tamrakar

Completed:2061,10.04

DRILL I	IOLE N	O • R-	BORE			E LO		L/B)	·		<u></u>			SHE	ĒΤ	6/10		
					*****	Discor Charac	ntinuit	y	%		Core	S III	sts	C	lassi	Mas ficati	on	
Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery	% QDH	00 POP	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
51.00 52.00 53.00	- 61,16 - 52,65		Grey, hard to medium hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. Most of the cores are broken into small fragments which are observed from 53.50 m - 60.60 m Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints.	>20	H H	60°,20° 70° 40°,70°	r, pl	none	100	0		Lugeon Value 4.33		СН	1	2	3	51 52
54.00	53,50 54,15_		The actual depth of lost zones could not be traced because of its broken nature.	>20	m m	30°,70°	r, pl r, pl	none	100	0					2	3	4	54
55.00	54.65 55.65			>20	F	30°,50° 80°		none	90	11		e 4.61		СМ	2	2 2 3	3 2	55 56
57.00	57,15			>20	F	30°,70°		Bone	67 88	0		Lugeon Value 4.61			2	3	4	57
58.00	58.00			>20	F	20°,40°	f, pl	none	100									58
59,00 				>20		40°,70			94	0		Lugeon Value			1	2 }	3 } 4	59 60
MB-Med SRC La	hanical E b, NEA	3reak, C	ih,SW-Slightly Weathered,MW-Modera CL-Coreloss, PI-Planar, Sm-Smooth, R a/T.Neupane Logged by: S.K.Karm	-Rough,	ir-Irre	gular,Fe Starte	O-Iron d:2061.	Oxide, C	l-Clay	SI-SI Comp	it, calc-calcic leted:2061.10.04		,					

16 F F	IOLE N	ስ • ይ-፫	BORE			LO :: Dam /		/B)								SHE		,, iV		
L,L, F		J.; B-3				Discon	tinuity				Core		Ι,					Mas		
Deptu, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	Characi	Roughness	Filling Materials	Recovery %	RQD %	Rec. RQD	8 8 5	Dormeshillh	(Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
	60.20	K5555	DOLOMITE		5	-	<u>~</u>						\dagger	\dashv						l
	60.20		Grey, hard to medium hard,					İ								СМ	2	3	4	1
			fresh, fine grained & fractured	>20	F				75	0			-							1
	60,60		Cores are broken due to										╛	_						۱
1,00	ĺ		mechanical grinding in fractured							İ			₫.	1.46						ŀ
	61,20		zones and closely spaced joints.	11	F	60°	r, pi	поле	100	٥			=	e 1						ı
			Most of the cores are broken										▋	Lugeon Value						ı
			into small fragments from	>20	F	40°,60°	r, p!	none	100	0				>						ı
	61.55	XXX								ļ	7///		3	5				l		١
62,00			60.90 m - 61.35 m						1	1				ğ						١
	ļ		63.45 m - 63.65 m																	1
			66.30 m - 66.85 m	18	F	40°,70°	r, pl	none	100	33	<i>////</i> =		1			СН	1	2	3	ı
	ł	XXX	67.65 m - 70.10 m	'	ŗ	,, 0,	., p.			"			=							ļ
	-	XXX	Low core recovery is due to						[ı
63.00	63.15		mechanical grinding within										₫.		İ					I
	T		fractured zones and closely	16	F	30°,50°	r, pi	попе	80	24	<i>W</i> =									1
	1	XXX	spaced joints.	"		60°														ı
	63,65	*	opasso jonne.										ÌΙ			†	m		T	-
64.00	1 ****	XXX	The actual depth of lost zones			'				1						İ				
	1		could not be traced because of	8	F	20°,40°	r, pl	none	100	82			1		İ					ļ
	1		its broken nature.							İ										-
	1																			
	64.65	1												8	İ					
65.00]		4										∄	Ó		_	١,	2	2	. 1
			3					l	93				∄ [Ĭ		В	1	1	-	
	1			13	F	30°,40°		none	33	30			∄	Š						
	4		*			60°	lr							Lugeon Value 0.90		\vdash	┼	╀	-	-
	4									1			∄I	Ð	l			1		
66.00	4													3						
	66.15	1888	8							•			П							
	-		8	13	F	50°,60°	r, pl	none	62	14			Ш			CH	1 1	2	3	ţ
	-			'	'	,,,,,	.,,,,		"											
	-		Ä				1		1						İ			1		
67.00	67.20		8						1											
	67.20	-1000	8	>20	F	60°	r, pi	none	100	0					ı		İ			
	1		\$1																	
	66,65	- }}	***************************************							1					1					
68.00	-		X											Ì			İ			
	7		8				1			1				ဖွ						
			Highly fragmented cores	>20	F				60	0			1	1.26		C!	VI 1	3	4	ł
	7		¾			ŀ	1		1	1			ı	밤						_
	68.68	- } }	K	1										Value						
69.00		<i>}</i>	Highly fragmented cores	>20	F	1		1	70) 0				Ē	ı	1		1		
	69.15		8				1							Lugeon				Ι,	Ι,	,
			X							. .			1	H				2		3
	_		Highly fragmented cores	>20	F				67	' °			Ţ			C	M 1	1 2		≀ 4
	69.45	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X	1	_	000.00				۱.								1	Ί.	•
70.00		<u> </u>	XI	>20			_	none				Jacob -		<u></u>						-
BBRE	VIATION	S:F-Fre	sh,SW-Slightly Weathered,MW-Moder	ately We	ather	ed,HW-H	ighly W	oathered	G,CW-	comp	iletely Y	reather .celete	ψÜ							
		Break,	CL-Coreloss, Pl-Planar, Sm-Smooth, F	-Hough	, 17-1FF		d:2061		, - Ciay		pleted:2		ņΑ							-
RC L:	b, NEA						a:2061 leviewe				PIOLECTIA	.,,,,,,,	.~*							-

	OLE NO					Disco	Axis (I		%		Core	٠,٠		S		Mas	on
ne fundad	Run Depth, m	Log	Description of Rock/Soll	Joints/m	Weathering	orientation	Roughness	Filling Waterials	Recovery %	ROD %	00 00 00 00 00 00 00 00 00 00 00 00 00	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
	70,10		DOLOMITE Grey, hard to medium hard, fresh fine grained & fractured	>20	F	40°	r, pl,st	none	82	0		1.26		СМ	1	2 ≀ 3	3 ~ 4
	70.65		Cores are broken due to									ue 1				_	\vdash
	71.00		mechanical grinding in fractured	>20 19	F	40°,60° 40°,60°	r, pl r, pl	none none	100 88	0 30		Lugeon Value		СН	1	2	3
	71.40		zones and closely spaced joints. Most of the cores are broken	19	•	20°	ir		00	00		5				3	L
	71.40		into small fragments from									egn					
			74.00	>20	F		r, pl	none	73	0							
2,00	72,1 8		70.10 m - 71.00 m 71.45 m - 76.05 m			Ì						<u></u>					
			76.30 m - 78.45 m									ĺ	ŀ				
			78.65 m - 79.40 m														
			Low core recovery is due to	>20	F	40°	r, ił	none	96	0			İ	İ			
3.00			mechanical grinding within													l	
	72,35		fractured zones and closely													2	١.
			spaced joints.	>20	F		r, pl,sm	поле	83	0		_	İ	CM	1	3	4
4.00	73.65		The actual depth of lost zones									Lugeon Value 0.93			Ì		
4.00			could not be traced because of	>20	F				86	0		9					
	74.35		its broken nature.									≅					
				>20	F	İ	r, pl		100			ğ			ļ		
5.00	1			1			1	-				 		1			
	75.20											∄ ┛					
	-				F	40°,60	° r, p}	none	100	١,		1	ı				
	1			>20	֡֡֞֜֞֜֞֜֞֜֡֞֜֜֡֡֡֡֡֡֡֡֡֡	140,00	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	110.50	"	*		3			$oldsymbol{\perp}$	<u>L</u>	L
6.00]							Ì		ı							
	76.05				۱ ـ	500.00		none	92	33	///			Cł	 	2	3
	-			>20	F	30',00	° r, pl	Hone	92	"				Ľ		Ĺ	Ľ
	76.65	-		1								' 	1	Г	1	2~	з 4
77.00]			>20	F	50°,20		none	88	0					\vdash	十	+
	77.05			>20	F	40°,60	° r, pi,i	none	75	0		<u> </u>	1			2	3
	77.25		8													≀	
]		}	>20	F	50°,40	r, pl	none	94	0		1.37		CI	VI.	3	4
78.00	4		8			60°						e e	1				
	78,15		8	>20	 F	60°	r, pl	none	80	22		Lugeon Value			1	3	4
	1		3						İ			_ 5				2	
	78.65	₩	3											1		}	1
79.00	-		8	>20	F	40°.50)° r, pl,i	none	100	, ,		3			1	1 .	
	79.40		8		'		1				77772		<u> </u>		\perp	_	1
		788	3											_	ال	۱,	2 3
	4		3	16	٦	30°,5)° r, pl	calc	100	34	· ///		ĺ	$ ^{c}$	H 1	2	` ³
80.00 3BBF	VIATION	KXX S:F. Fre	sh,SW-Slightly Weathered,MW-Moder	i ately We	ather	ed,HW-F	lighly W	eathered	d,CW-0	Comp	letely Weathere						

			BORE												SHE	ET	9/10	}
RILLI	HOLE N	O.: B-9	<u> </u>	LOCA	ATIOI	V: Dam Disco	Axis (Core		T	<u> </u>			Mas:	
Depth, m	epth, m	Log	Description of Rock/Soli	Joints/m	Ðυ	Charac	teristic	s	Recovery %	RQD %	Rec. RQD		Permeability (Lugeons)	Other tests			T	~~~~
Оер	Run Depth,	,l	,	Jol	Weathering	orlentation	Roughness	Filling Materiais	Reco	8	20 40	98 00	Permi (Lug	Othe	Classification	Weathering	Hardness	Joint spacing
	80,10		DOLOMITE		***********	Ontono constanto	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**********					СН	1	2	3
			Grey, hard to medium hard,	>20	F	40°,50°	τ, pł,ir	none	73	0			Lugeon Value 1.37					
			fresh fine grained & fractured										Lugeon					
	80,65		Cores are broken due to										3 5					
31.00			mechanical grinding in fractured	>20	F		r, pl	none	70	0			>		СМ	1	3	4
	81,16		zones and closely spaced joints.			400 000				_				i				•
	ł		Most of the cores are broken	>20	F	40°,60° 30°	r, pl,ir	calc	100	0			1				2	3
	81.75		into small fragments from			30-							1				3	{ 4
32.00			80.20 m - 81.75 m	19	F	40°-60°	r, pl,sm	calc	100	0			1					
02.00	82.05		82.55 m - 82.65 m	"			., μ.,	54.6	.00				1					
	02.00		82.90 m - 83.85 m												СН	t	2	3
		XXX	84.00 m - 84.75 m	>20	t	50°,60°	r, pi,ir	none	100	0			0.46					
			85.20 m - 85.45 m			70°	,						o					
83.00	1	<i>?}}</i>	85.65 m - 88.00 m										Lugeon Value		П			
	83.i0		88.95 m - 90.15 m										Ş					
]		-	>20	F	40°,60°	r, pl	none	100	0			Ę				2	3
	83.66	<i>***</i>	Low core recovery is due to								772		ge e		СМ	1	₹	≀
]	XXX	mechanical grinding within	>20	F	50°,70°	t, pl,ir	none	100	18			Ē				3	4
84.00		<i>}</i>	fractured zones and closely															
	B4,15		spaced joints.		l						//		1		1		1 1	
	ļ																	
			The actual depth of lost zones	>20	F	30°,60°	r, pl	none	100	0								
	84.65	***	could not be traced because of										1		_			
85.00	1	\ggg	its broken nature.												В	1	2	2
				18	F	40° 50°	r, pl,ir	none	100	44				1		<u> </u>		
				'°		40 ,50	1, 1,	none	""							İ		
	85.65	XXX				1						4	1	1			2	3
86.00	1	XXX												ļ		1	-	1
00.00	1			>20	F	40°,60°	r, pl,ir	попе	93	0			1				3	4
	86,40																	
		XXX		1											СМ			
	1	XXX		>20	F	10°,60°	r, pl,ir	none	80	0							3	4
	87.00	<i>XX</i>							İ				1				Н	_
]			>20	F		r, pl,ir	none	100	0							2	3
	87,25															1	₹ .	≀
]			>20	F	50°	r, pi	none	100	0							3	4
	87.55	<i>}</i>									//				\perp	<u> </u>	_	ļ
88.00	1			>20	F	45°,60°	r, pl,ir	none	100	17			1					
	88,20								ļ		9000		Ħ					
	-																'	
	4	*		1	_]										_	_
	1	XXX		>20	F	40°,60°	r, pi,ir	none	95	35					CH	1	2	3
89.00	1	XXX	}			30°												
													Ц			<u> </u>	 	<u> </u>
	89,25				_			nene		,			3					
	1		1	>20	F		r, pl,ir	none	100	0			#		См		3	4
	╄	***											1		"	1	3	l "
90.00									1				_				1	

Started:2061.08.30

Reviewed by: J. M. Tamrakar

Completed:2061.10.04

SRC Lab, NEA

Drilled by:S.R. Timilshina/T.Neupane Logged by: S.K.Karmacharya

ILL F	IOLE NO	D.: B-5	<u> </u>	LOCA	ATION	l: Dam			T		Core	T			Rock		
_	E 'i			₌		Discor Charact			%	.0	Rec.	ĭ ∰ ₹	sts	Ь	lass		
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery	RQD %	02 04 09 05 02 04 09 05 04 05 0	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
*********	90.20		DOLOMITE	>20	F	40°,60°	r, pl,ir	none	100	0	<i></i>						
			Grey, hard to medium hard,			40°,50°	ε, pl,ir	calc	93	19				СН	1	2	3
			fresh fine grained & fractured Cores are broken due to	>20	۴	10°	e, pi,ii	Carc	93	19							
	97:00-		mechanical grinding in fractured											СМ	1	3	4
			zones and closely spaced joints.	>20	F		r, pi,ir	calc	88	0							1
	91.30		Most of the cores are broken												1		1
	91,80		into small fragments from	>20	F	40°,60°	r, pl,ir	calc	100	0		1		├	ļ		$\overline{}$
	31,00		90.45 m - 91.50 m									1		Сн	1	2	3
92.00			91.65 m - 91.95 m		1				1								
			92.40 m - 93.00 m	>20	F	40°,60°	r, pl,ir	calc	94	0							l
	[93.75 m - 94.50 m			05°								-	\vdash	 	
	92,70		94.80 m - 96.30 m									1				2	4
93.00			97.00 m - 97.10 m		_	40°,60°	r, pi	none	100	0					1	3	4
	ł		98.45 m - 99.00 m	>20	F	40 ,60	r, þi	110116	""	ľ							
	93.45	XXX	Low core recovery is due to								7	7					
	30.40		mechanical grinding within	>20	F	40°,60°	r pi	попе	92	18				1		2	3
94.00	1	XXX	fractured zones and closely											СМ	1	₹.	₹
	94,10		spaced joints.													3	4
				>20	F		r, pl	none	63	0		1					
	94.50		The actual depth of lost zones could not be traced because of					1								ļ	
95.00	1		its broken nature.	>20	F	40°,60°	r, pl	поле	71	0			l				
33.00	95,20						,,										İ
			Highly fractured zone	>20	F		r, pl		26	0							
																<u> </u>	
	95.70																
96,00	1			>20	F	60°	r, pl	none	44	14			1	CH	1	2	3
					i `		'`										
	96,50											=					
				13	F	60°	r, pi	none	100	42							
97.00	4														1		
	97.10		3	19	F	60°	r, pl	none	88	30							
	97.50			"	`	"	,,,,,		"			<u> </u>		-	╀	╂	┼
			3				İ	1	İ			0.88					
98,00				13	F	40°,60°	r, pl	calc	100	64		E E		8	1	2	2
							1					Lugeon Value			_		
	98.30				ĺ				1			5		CH	1 1	2	3
	-			>20	F	40°,60	r, pl	caic	93	23	//	ě		Ĭ,		 	Ť
99.00	99.00	XX	8	'			``							CI	V 1	2~	3 4
										1					1		
]		8									===		_	١.		
	4		}	8	F	40°,60	° r, pl	calc	100	77		3		₽	\	2	2
	-		8		İ												
100.00	4	- }}}	X											-	+-		十
	100.05		3	13	F	30°,60	r, pl,i	r calc	100	58		1		CI	H 1	2	3
	100:50	- (///	3		1	\perp							1_		┸	上	
			sh,SW-Slightly Weathered,MW-Modere									d					
			CL-Coreloss, PI-Planar, Sm-Smooth, R														

BORE HOLE LOG SHEET 1/10 DRILL HOLE NO.: B-6 Z; 307.93 COORDINATES: X: 3092798.93 Y: 525459.84 INCLINATION: 45° Dip Direction: 107° CASING DEPTH: NW: 4.00 m DRILLING MACHINE: Long Year DRILLING METHOD: Rotary Drilling / Wire line System WATER TABLE: 0.5 m Discontinuity Classification Characteristics Rec. Other tests Joints/m RQD % Weathering Run Depth RQD Log Depth, Description of Rock/Soil Weathering Roughness 8 8 8 8 Drilled from the bedrock. DOLOMITE Grey, hard, fresh and fine grained. Cores are broken into small F-SW 40° r, pl st Calc. 100 16 1.00 fragments due to mechanical grinding in fractured zones and in closely spaced joints. СМ Fragmented cores are observed 3 3 from >20 F-SW Calc 61 0 1.50 m to 2.15 m FeO 2.80 m to 3.15 m 3.65 m to 4.90 m 4.50 m to 4.60 m Calc 100 14 pl, r FeO 6.00 m to 6.60 m 3,00 80° 7.00 m to 7.30 m 9.30 m to 9.85 m 29 coreloss is observed from 409 Calc. 100 1.50 m - 1.75 m 4 Highly fragmented cores >20 100 0 10 10 100 5.00 46 СН 2 2 3 20°,60° 100 >20 r, pl 6.00 CM 2 3 >20 20° ғ, pl, calc, 100 7.00 7.50 5°,50° r, pl 100 17 calc 8.00 8,40 3 70°,10° FeO 100 2 СМ ł ? 9 4 3 9.00 9.45 70°,20 100 10 18 10 ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered MB-Mechanical Break, CL-Coreloss, PI-Planar, Sm-Smooth, R-Rough, Ir-Irregular, FeO-Iron Oxide, Cl-Clay, SI-Silt, calc-calcic Completed:2061.11.07 Started:2061.10.09

Drilled by:S,R, Timilshins/T.Neupane Logged by: S.K.Karmacharya/S.Shresiha Reviewed by: J. M. Tamrakar

	£			i ty	- 13	<u> </u>	assi	Mass ficatio	n									
Deptn, m	Run Depth,	Log	Description of Rock/Soll	Joints/m	Weathering	orientation	Roughness	Filling Waterials	Recovery %	ROD %	Rec. RQD	09 80 1000	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
			DOLOMITE	 														
	10,35		Grey, hard to mod hard, fresh fine grained & fractured												П			
			Coreloss due to fracture zone	В	F	75°,40°	r, pl	none	100	41					В	2	2	2
1.00		\otimes	mechanical grinding and closely spaced joints.												H	2	2	3
		\gg	Most of the cores are broken															
			into small fragments from				1									_		3
	_11.70.	绞	11.30 m - 11.70 m	15	F	40° 50°	sm, pl	Calc	100	0			1.80		СН	2 ∶	2	3
2.00	12.20		12.00 m - 12.20 m	"		,,,,,	5.7.1, p.									3	3	4
			13.00 m - 13.80 m			l '	١.						/alu					
	12.57	総	17.00 m - 17.28 m 18.65 m - 19.00 m	>20	SW	20°	r, pl	Si	100	0		%	Lugeon Value		В	1	2	2
3.00				112	F	30°	r, pl	none	100	48			ige					
			1										1		СМ	2	3	4
	13,38	総		14	F	40°,60°	sm, pl	FeO	100	24		<u>///</u>						
	13.80											77).				1	_	
4.00			1											1	СН	2	2	3
				8	F	40°,60°	r, pi	Calc	100	47						_		
															1			
5.00	15.00		3				1											
5,00	15.00													1				
	1													×				
6.00		\otimes		7	F	30°-60	r, pi	none	100	33					СН	1	2	3
	-					50°												1
	1						1			ļ			1					
	16.65	X											g.					
17,00				6	F	30"-60	r, pl	попе	100				alue 1.20		СМ	2	3	4
]							1							_	<u> </u>	╄	<u> </u>
	17.45					1							Lugeon V			1		
18.00	1	\otimes	8	6	F	20°,70	sm.r,p	none	100	33			e e		СН	1	2	3
									1							2		
		- (//	3										1			l		
	18.6	*	ð												\vdash	1	1	†
19,00]	X	8] .			١					CV	1 ≀ 2		3 3~
	 19:5:	_}_	3	7	F	30°,60	r, pl	none	100	14					1	_		
]	X	3									<u></u>	1		C+	١.	2	3
	-		}		_	20°	، ۔ ۔ ا	\ c~-	100	35						2		
20.00 3BRE	20.00 VIATIO		≱ Zeresh,SW-Siightly Weathered,MW-Mo	9 derately	F Weath	40°,60 ered,HW						ly Weather	ed	<u></u>		1.5		

166	IOLE !	VO.: 1	3-0	LOCA	11014.	Dam /	tinuity				Core)	T					Mass	
E,	pth, m	ğ,		m/si		Charac			ery %	RQD %	Rec.			ability sons)	Other tests	} ,			
Depth, m	Aun Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	orlentation	Roughness	Filling Materials	Recovery	E S	Т	88	100	Permeability (Lugeons)	Other	Classification	Weathering	Hardness	Joint spacing
21.00	21,40		DOLOMITE Grey, hard to mod hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. Most of the cores are broken	6	F	20°,30° 70°	sm,r,pl	none	100	65						В	1 2	2	2
22.00			into small fragments from 20.50 m - 22.80 m 23.35 m - 23.55 m 25.50 m - 25.70 m	5	F	20° - 50'	sm,r,pl	FeO Calc	100	44				'alue 10.0		СН	2	2	3
23,00	22.50		27.05 m - 27.60 m 28.50 m - 28.55 m 29.00 m - 29.35 m Low core recovery is due to	8	F	30°,50°	sm,r,pl	FaO	100	9				Lugeon Value		СМ	2	2 ~ 3	3 } 4
24,00	29.55		mechanical grinding within fractured zones and closely spaced joints. The actual depth of lost zones	9	F	30°,40°	sm, pl	FeO	100	34			7/0			сн	1 2 1	2	3
25.00	25,00		could not be traced because of its broken nature.	6	F	40°,30°	sm,r,pl	FeO	100	87						8	2	2	2
26.00	26.00			6	T.	40°,20°	sm,r,p	FeO	100	30						СМ	2	3~4	4
	27,00			5	F	40°	r, pl	Calc	100	40				40		СН	1	2	3
27.00	27.00			6	F	50°,60	• sm,r,p	Calc	100	10				on Value 1.40		СМ	1	2 } 3	4
28.00	28.00			8	F	40°,50	° r, pl	none	100	30				Lugeon		СН	1	2	3
29.00	29.00				,	70°											1 1	2	3
30.00	30,00		resh,SW-Slightly Weathered,MW-Mod	18	F	40*,50	r, pi	FeO calc,8	1) 18									

Drilled by:S.R. Timilshina/T.Neupane Logged by: S.K.Karmachanya/S.Shrestha Reviewed by: J. M. Tamrakar

DOLOMITE Grey, hard to mod hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. Nost of the cores are broken mints small fragments from 12 F 40°, 70° 50°, 70°, 10°, 10°, 10°, 10°, 10°, 10°, 10°, 1		£					Discor Charact			3¢		Сога	2 - 4	, s	CI	łock assit	
35,30 Grey, hard to mod hard, tresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. 200 F 40°,70° m, pl 700 7	Depth, m	Run Depth, m	Log	Description of Rock/Soli	Joints/m					Recovery ?	RQD %		Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness
31.00 Section 1.00							100 500		none	100					СН		2
Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. Most of the cores are broken into small fragments from 31.20 m - 31.75 m 32.00 m - 33.00 m 34.75 m - 35.00 m 34.75 m - 35.00 m 35.50 m - 36.60 m 12		30.50			>20	۲		r, pi	110116	100	U						ļ.,
## Add to the cores are broken into small fragments from 32.80 m - 33.00 m 34.75 m 32.80 m - 35.50 m 3		00,00		7											17	$\$	
Most of the cores are broken Into small fragments from 31.07 m 31.75 m 31.75 m 32.00 m - 33.00 m 34.75 m - 35.60 m 35.50 m - 35.60 m 35.50 m - 35.60 m 35.50 m - 35.60 m 35.50 m - 35.60 m 35.50 m - 36.00 m 35.50 m - 36.00 m	31.00			mechanical grinding in fractured			•									1	^
31.20 m - 31.75 m 32.80 m - 33.00 m 34.75 m - 35.00 m 35.50 m - 36.60 m 30.50 m - 31.20			XX	• • •	>20	F			none	44	0			İ	H		L
31.20 m - 31.75 m 32.80 m - 33.00 m 33.75 m - 35.00 m 35.50 m - 35.60 m 30.00 m 33.75 m - 35.60 m 30.00 m 33.75 m - 35.60 m 30.00 m 30.00 m 30.00 m - 31.20 m 6 F 30°,40° sm,r,pl FeO 100 S9			XX													١	Ĺ
31.00		21.75		into small fragments from											ויין	3	3
32.80 m - 33.00 m 34.75 m - 35.00 m 35.50 m 35.50 m 35.50 m 35.50 m 36.00 m 36.75 m - 35.60 m 36.00 m 36.75 m - 35.60 m 36.00	22.00			31.20 m - 31.75 m									2	lj S	\Box		Γ
33.00 33.20 Coreloss is observed from 30.50 m - 31.20 m Coreloss is observed from 30.50 m - 31.20 m Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,30° pl, r none 100 35	32,00												3 E				l
33.50 33.20 Coreloss is observed from 30.50 m - 31.20 m 6 F 30°,40° sm,r,pl FeO 100 59 30.50 m - 31.20 m Coreloss is observed from 30.50 m - 31.20 m 60° 60° 50° 60°			}	1	12	F	40°-70°	sm,r,pl	FeO	100	8	Ø====	#		СН	1	l
Coreloss is observed from 30.50 m - 31.20 m 30.50 m - 31.20 m Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. 35.00 35.00 The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,40° sm, pl Calc 100 35 35 35 35 35 35 35			X	35.50 m - 35.60 m									1 5				١
Coreloss is observed from 30.50 m - 31.20 m 30.50 m - 31.20 m Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. 35.00 35.00 The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,40° sm, pl Calc 100 35 35 35 35 35 35 35			XX										1 8				l
Coreloss is observed from 30.50 m - 31.20 m 30.50 m - 31.20 m Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. 35.00 35.00 The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,40° sm, pl Calc 100 35 35 35 35 35 35 35	33.00												ğ				l
30.50 m - 31.20 m 30.50 m - 31.20 m 30.50 m - 31.20 m 30.50 m - 31.20 m 30.50 m - 31.20 m 30.50 m - 31.20 m 30.50 m - 31.20 m 40.10 mechanical grinding within fractured zones and closely spaced joints. 30.50 m - 31.20 m 40.10 mechanical grinding within fractured zones and closely spaced joints. 30.50 m - 31.20 m 40.10 mechanical grinding within fractured zones and closely spaced joints. 30.50 m - 31.20 m 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 mechanical grinding within fractured zones and closely spaced joints. 50.10 me		33.20	X	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								7777773	= -				
30.00 34.00 Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. The actual depith of lost zones could not be traced because of lis broken nature. 14 F 40°,30° pi, r none 100 39 37.00 38.00 38.70 37.00 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 38.70 39.00 10 F 20°,50° sm.r,pi calc 100 67 60° 10 F 40°,30° r, pi FeO 100 67 8 F 50°,40° sm.r,pi calc 100 58 CH 1			X	Coreloss is observed from		E	30° 40°	sm r ol	FaO	100	59		₫				
34.00 34.00 Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. 35.00 35.00 The actual depth of lost zones could not be traced because of lis broken nature. 14 F 40°,30° pl, r none 100 39 100 10				30.50 m - 31.20 m	"	"		O11,1,p.		"	"					1	1
Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints. 35.00 Sh.00 The actual depth of lost zones could not be traced because of lis broken nature. 14 F 40°,30° pi, r none 100 39 39.00 39.72 37.00 14 F 40°,10° r, pi-ir none 100 46 39.72 37.00 37.42 39.00 38.70 39.00 38.70 39.00 39.70 10 F 40°,30° r, pi FeO 100 0 67 8 1 10 10 10 10 10 10	34.00	34,00		00.00 117 07.40 117			**						3				l
fractured zones and closely spaced joints. The actual depth of lost zones could not be traced because of its broken nature. 10-15 F 10°,40° sm, pl Calc 100 35 The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,30° pl, r none 100 39 38.72 37.00 37.42 37.42 38.70 38.70 38.70 39.00 10 F 20°,50° sm,r,pl none 100 67 39.00 10 F 40°,30° r, pl FeO 100 67 39.00 10 F 40°,30° r, pl FeO 100 67 B 1 CH 1				Low core recovery is due to		1							3				l
35.00 35.00 The actual depth of lost zones could not be traced because of lits broken nature. 14 F 40°,30° pi, r none 100 39 36.00 35.00 14 F 40°,10° r, pi-ir none 100 45 37.42 37.00 10 F 20°,50° sm,r,pi none 100 67 38.70 38.				mechanical grinding within					1					Ì			
35.00 35.00 The actual depth of lost zones could not be traced because of its broken nature. 14 F 40°,30° pl, r none 100 39 37.00 37.00		ļ		1	10-15	۴		sm,r,pl	Calc	100	20				1		ł
The actual depth of lost zones could not be traced because of its broken nature. 10-15 F 10°,40° sm, pl Calc 100 35 10-15 F 10°,40° sm, pl Calc 100 35 CH 1 14 F 40°,30° pi, r none 100 39 37,00 37,00 37,00 37,00 37,00 37,00 37,00 38,00 39,00 10 F 40°,30° r, pl FeO 100 67 CM 2 CM 2 CM 2 CM 2 CM 2 CM 2				spaced joints.								Am ===		2000	CM	2	ľ
Could not be traced because of lits broken nature. 10-15 F 10°,40° sm, pl Calc 100 35 CH 1	35.00	35.00	X	The cotuni depth of loct gapes				1					=	1	H		t
36.00 35.00 14 F 40°,30° pl, r none 100 39 37.00 14 F 40°,10° r, pl-ir none 100 46 37.00 37.42 37.00 38.70 38.70 39.00 38.70 39.00 38.70 39.00 8 F 50°,40° sm,r,pl calc 100 58 CH 1 CH 1		1		1	10-15] _F	10°.40°	sm. pl	Calc	100	35	<i>(///</i>)====	=				-
37.00 14 F 40°,30° pi, r none 100 39 38.72 37.00 14 F 40°,10° r, pl-ir none 100 46 39.00 37.42 >20 F sm,r,pl FeO 100 0 38.70 39.00 10 F 20°,50° sm,r,pl none 100 67 60° 39.00 8 F 50°,40° sm,r,pl calc 100 58 CH 1	****			1								<i>///</i> ///	3	ļ			١
38.72 37.00 14 F 40°,30° pi, r none 100 39 38.72 37.00 14 F 40°,10° r, pl-ir none 100 46 39.00 38.70 10 F 20°,50° sm,r,pl none 100 67 60° 39.00 10 F 40°,30° r, pl FeO 100 67 39.00 8 F 50°,40° sm,r,pl caic 100 58 CH 1		1		3				ĺ					₫				١
38.72 37.00 14 F 40°,10° r, pl-ir none 100 46 37.00 37.42 38.70 38.70 10 F 20°,50° sm,r,pl none 100 67 60° 10 F 40°,30° r, pl FeO 100 67 caic,Si 8 F 50°,40° sm,r,pl calc 100 58 CH 1	36,00	35.00		1		1							3		СН	1	١
38,72 37,00 14 F 40°,10° r, pl-ir none 100 46 38,70 38,70 10 F 20°,50° sm,r,pl none 100 67 60° 10 F 40°,30° r, pl FeO 100 67 20 B 1 B 1 CH 1		ł		1	l						20		■			İ	١
37.00 14 F 40°,10° r, pl-ir none 100 46 37.42 38.70 10 F 20°,50° sm,r,pl none 100 67 39.00 39.40 8 F 50°,40° sm,r,pl calc 100 58 CH 1		1			14	-	E .	ht' L	1.01.78	'*	"		∄	ļ		1	
37.00 14 F 40°,10° r, pl-ir none 100 46 37.00 37.42 38.70 10 F 20°,50° Sm,r,pl none 100 67 39.00 39.00 10 F 40°,30° r, pl FeO 100 67 20 CM 2 B 1 CH 1		36.72	XX	4] ~						₫ %.			1	
33.00 35.10 10 F 20°,50° sm,r,pl none 100 67 39.00 10 F 40°,30° r, pl FeO 100 67 calc,Sl 067 CH 1	37.00			1			1						₫ 5	Ĭ	\perp	<u> </u>	1
33.00 38.70 10 F 20°,50° sm,r,pl none 100 67 60° 10 F 40°,30° r, pl FeO 100 67 calc,Sl				3	14	F		r, pl-ir	none	100	45		a l				
38.70 39.00 10 F 20°,50° sm,r,pl none 100 67 60° 10 F 40°,30° r, pl FeO 100 67 calc,Sl		<u> </u>	X				70°										١
38.10 10 F 20°,50° sm,r,pl none 100 67 39.00 10 F 40°,30° r, pl FeO calc,Sl 067 8 F 50°,40° sm,r,pl calc 100 58 CH 1		37.42		1		_			Fen		١,		∄ 鬒		CM	,	1
38.10 10 F 20°,50° sm,r,pl none 100 67 39.00 10 F 40°,30° r, pl FeO calc,Sl 067 8 F 50°,40° sm,r,pl calc 100 58 CH 1	39.00	1		1	>20	"		J	'"	1 "	"		Ĕ	1	"	٦	
39.00 10 F 20°,50° sm,r,pl none 100 67 60° 10 F 40°,30° r, pl FeO 100 67 calc,Sl		38.10		3			1									L	
39.00 39.40 10 F 40°,30° r, pl FeO 100 67 B 1 CH 1]	*				1										
39.00 10 F 40°,30° r, pl FeO 100 67 B 1 CH 1		1	X	1	10	F	1	sm,r,p	none	100	67		₫	-			1
10 F 40°,30° r, pl FeO 100 67 B 1 8 F 50°,40° sm,r,pl calc 100 58 CH 1		38:70		3			60°		1								
39.40 8 F 50°.40° sm.r.pl calc 100 58 CH 1	39.00	-		3	1	-	400.00		FeO	400					n	1	-
8 F 50°,40° sm,r,pl cale 100 58		1	<i>**</i>		10	1	40-,30	r, pi	t		"				"	`	-
		39.40	**					1	1000,0							T	†
	· · · · · · · · · · · · · · · · · · ·	1		8	8	F	50°,40	sm,r,p	calc	100	58		3		СН	1	
ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered	40,00	40.00			Ш.					<u>L.</u>	丄		=	<u> </u>		L.	Ţ

							ntinuity				Core	•						Mas: ficatio	
E	ŧ,			E/3		Charac		S	%	36	Rec.		7777	bility ons)	ests	<u>5</u>	Ę,	8	ğ
Depth, m	Run Depth, m	go-1	Description of Rock/Soil	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	ROD	20 RQD	П	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
	40.55		DOLOMITE Grey, hard to mod hard, fresh fine grained & fractured Cores are broken due to	9	F	40°	r, pl	none	100	54						СН	1	2	3
1.00	41,10		mechanical grinding in fractured zones and closely spaced joints.	7	F	40°,50°	''	FeO,Si		37									
	41.55		Most of the cores are broken into small fragments from	>20	F	40°	r, pl-îr	none	100	0						СМ	1	3	4
2.00	43,35		43.50 m - 43.57 m 44.40 m - 44.80 m	13	F	50°	r, pl-ir	none	100	25				/alue 1.30					
3.00	43.03		Low core recovery is due to mechanical grinding within fractured zones and closely	10	F	40°,30°	·	nona	100	23				Lugeon Value		сн	1	2	3
	43.50		spaced joints. The actual depth of lost zones	9	F	20°,40°	sm, pi	none	100	44							1	3	4
.00.			could not be traced because of its broken nature.	7	F	304	r, pì	none	100	40					00000000000000000000000000000000000000	СМ	1	2 } 3	3 ≀ 4
3.00	45.70			8	F	40°,60°	sm,r,pl		100	53									
5.00	-46.36			5	ŧ	40°,60°	r, pi	Şi	100	77				,					
7.00	47.50			4	F	40°	r, pl	none	100	83				lue 2.10		В	1	2	2
8.00				6	F	50°,60°	r, pl	none	100	82				Lugeon Va					
	40,30			4	F	40°,50° 20°	r, pl	FeO	100	78									
9.00	49.00																		
0,00	50.00		esh,SW-Siightly Weathered,MW-Mode	5	F	60°,40°		поле	100	<u> </u>									

ILL F	IOLE I	10.: I	3-6	LOCAT	TON:				- 1						Bock	Mass	
	Ε		:			Discon Charact			3¢		Core	.	22	-ç		ficatio	m
Depth, m	Run Depth, m	Log	Description of Rock/Soll	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	ROD %	9 8 8 6 9 8 8 6 9 8 8 6	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
1.00			DOLOMITE Grey, hard to mod hard, fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured	7	F	40°,60°	pl,r	calc	100	58				В	1	2	2
2.00	51,25	ZZI	zones and closely spaced joints. Most of the cores are broken into small fragments which are observed from 53.00 m - 53.25 m 53.70 m - 54.50 m	9	F	60°,40° 10°	r, pl	none	100	23		Value 1.60		СН	1	2	3
3,00	53.25		57.50 m - 57.70 m 59.00 m - 59.70 m	5	F	30° 40°,60°	r, pl	FeO	100	21		Lugeon Value					
4.00	54.00		Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints.	9	F	30°	sm,p}	FeO	100	٥				СМ	1	2 3	4
5,00	55.00		The actual depth of lost zones could not be traced because of its broken nature.	4	F	30°,50°		none	100	22			0000000	сн	1	2	3
6.00	56,00			10	F		sm,r,pl		100	52 6			, and the second		1	2	4
7.00	56.65			15	F	30°,40°	501171181	none				'alue 1.0					
8.00	57.50			12-15	F	40°,60°	E	none	100	25		Lugeon Va		СМ	1	2	3
9.00	58.30 59.00			>20	F			none	100	0							
				>20	F	40°,50° 20°		none	100	10					1	2	3
			1 esh,SW-Slightly Westhered,MW-Mode , CL-Coreloss, Pt-Planar, Sm-Smooth,									ed	Ji .		<u> </u>		13

			BOR					(5)					5	HEE	T 7	7/10		l
ORILL I	Е	NO.:	B-6	LOCA		: Dam / Discor Charac	ntinuity	,	, o		Core	× .				(Mas:		
Depth, m	Run Depth,	Log	Description of Rock/Soli	Joints/m	Weathering	orlentation	Roughness	Filling Materials	Recovery %	RQD %	00 00 00 00 00 00 00 00 00 00 00 00 00	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
61,00			DOLOMITE Grey, hard to mod hard, fresh, fine grained & fractured Cores are broken due to mechanical grinding in fractured	5	F	40°,50° 70°		none	100	47				СМ	1	2	3	
52.60	61.50		zones and closely spaced joints. Most of the cores are broken into small fragments from 60.00 m - 60.20 m 61.65 m - 61.70 m 65.00 m - 65.50 m 68.00 m - 68.25 m	5	F	40°	r, p1	none	100	81		Value 1.40		В	1	2	2	4
63.00			68.50 m - 69.00 m 69.00 m - 69.50 m Low core recovery is due to mechanical grinding wilhin	10	F	20°,40° 75°	sm _i r, pl	none	100	30		Lugeon Value						
64.00 65.00	64.00 65.00		fractured zones and closely spaced joints. The actual depth of lost zones could not be traced because of its broken nature.	8	F	30°,-60°	r, pl	none	100	48								
56.00	66,00			15	F	60°,40°	r, pl	none	100	0				СН	1	2	3	
37,00	66.65			9	F	30°,40° 70° 40°	r, pl	none	65 100	61 54		slue 2.90						
68.00	68.00			9	F	40°,50° 40°,20°		none	100	43 20		Lugeon Val						
9.00	69.00													СМ	1	2 2 3	3	
		RXX		6	£	40°,60°	1	none	100	0		1	lì .	1	Į.			

SRC Lab, NEA Started:2061.10.09 Completed:
Drilled by:S.R. Timilishina/T.Neupane Logged by: S.K.Karmacharya/S.Shrestha Reviewed by: J. M. Tamrakar Completed:2061.11.07

	301 E 1	١٨.١	BOR					/B)						\$	SHE	€T 8	3/10	
	OLE !	10.:	5-6			Dam A Discon Charact	tinuity	,	%		Core		£ 6	ts		lass	(Mas ficati	on
Deptn, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	orientation	Roughness	Filling Materials	Яесочегу	ROD %	RQD	888	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
			DOLOMITE	14	F	40°,50°		none	100	58								
	70,35		Grey, hard to mod hard, fresh fine grained & fractured									201						
			Cores are broken due to															
.00			mechanical grinding in fractured	13	F	40°,50°		none	100	0			1		СН	1	2	3
			zones and closely spaced joints.											l				
			Most of the cores are broken															
.50	-		into smali fragments from	20	F	40°		none	100	0					Ī			
2.00	72,00	X X		20		40		110110					35					
		\otimes	71.70 m - 72.00 m					1					6.2	İ		l		
		$\times\!\!\times$	73.00 m - 80.00 m										alu			1	2	
		$\langle \rangle \rangle$		>20	F	40*		none	100	٥			2		CM	\ 2	₹	4
	·	\otimes	Corelosses are observed between fractured zones					ļ					Lugeon Value			2	3	
3.00	73.00		which are as follows	>20	F			none	100	0			Ĕ					ļ
	73.40							1					<u> </u>	-		ļ		
			73.75 m • 74.00 m	>20	F			none	58	0							-	
	-		74.30 m - 75.00 m		1				ļ							\triangleright	$\!$	
1,00	74.00		75.35 m - 75.75 m								a postparanty	퀴ㅣ		ĺ	CM	1~2	2~3	4
	1	X	76.00 m - 76.40 m 176.65 m - 77.00 m	>20	F			none	30	0					5	<u> </u>	2.43	Ľ,
	1		77.20 m - 77.75 m	720	,				"			111				\downarrow		\forall
	1		77.75 m - 78.20 m											1			*	
5.00	75.00	X	73.00 m - 80.00 m									411	-	4	/	1	—	\vdash
	-														CM	1 1	2~3	4
	1		Low core recovery is due to mechanical grinding within	>20	F			none	47			∄				t		
	75.75	$\langle \rangle \rangle$	fractured zones and closely	1	'				"			∄				1	1	_
6.00	1		spaced joints.			1									Cλ	1 1	2~3	4
]	X		>20	F			anon	38	0		111	1			1>	+	\perp
	76,40	燹	The actual depth of lost zones	ı								4			CN	1 1	2~:	4
	-		could not be traced because of its broken nature.	>20	F]	none	42	0					- Ci		12~	`
7.00	77.00		ng pronon mature.	7.00	'	1			~			∄		1		\geq	\leq	
															CV	41	3~3	3 4
	1			4	F	40°		none	27	13						\downarrow		\bigvee
	-																\checkmark	1
8.00	77:75		1											1		\bigvee	1\	\downarrow
0.00	1					1				1		311			/	1_		
				>20	F			none	47	0						1		
	78.60	\otimes	1										=		1			
	-			_	_	400		none	100	18			=		C	4 1	2	4
9.00	79.20		1	5	F	40°	1	1,01,6	100	"			3	1		Ί΄	3	1
	1,3,40	X	3	1		1					1		3			1		
]		3	>20	F	1		none	100	22			₫			T	1	†
	79.65		1			1		1							CI	1 1	2	3
90.00	80,00	XX	1	15	F	40°	1	none	_				=	1				Щ.
			resh,SW-Slightly Weathered,#W-Mod										rea					
	henical b, NEA	preak	, CL-Coreloss, PI-Planar, Sm-Smooth,	n-Hou	jit, 67-11		d:2061.		01-01		***************************************	2061.11.0	 7					
~ ~	-, NEM					~												

			BOR											5	HEE	ET 9	9/10	
RILL	HOLE	NO.: I	3-6	LOCA			ntinuity				Core	Т		•			Mass	
Ę	ith, m			m/:		Charac	-		% 2	Ж.	Rec		ons)	ests	uo	Đ.	,	£
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	RQD %	8 8 8 B	901	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
			DOLOMITE		***********								ני					
		\boxtimes	Grey, hard to mod hard,	>20	F			попе	55	0			Lugeon value 1.38		СМ	1	3	4
		\otimes	fresh fine grained & fractured									ا	1.38				$\vdash \vdash$	
			Cores are broken due to										š, ⊤∥				$\geq \downarrow$	
B1.00	81.00	///	mechanical grinding in fractured									:	3				2]
		///	zones and closely spaced joints.		_			поле		_		١٢			СМ	4	~3	(3) ~4
		zzz	Most of the cores are broken	>20	F			none	43	0						/		
	81.70	$\times\!\!\times\!\!\times$	into small fragments from									Ш						
82.00		$\langle \chi \chi \rangle$	80.00 m - 83.30 m															
82.00		УУИ	83.45 m - 83.90 m	>20	F	40°	pl,sm	calc	100	0								
		УУИ	83.90 m - 88.00 m	>20	-	40	priori	~	100	٥								
	152,50	УУИ	88.40 m - 90.00 m															
	102,50	$\langle \chi \chi \rangle$	20.40 III = 20.00 III								Ø=====							
83.00		$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Coreloss is observed from	>20	F	40°		none	100	12	Ø====		1				2	(3)
00.00		$\times\!\!\times\!\!\times$	80.55 m - 81.00 m	~~	•	,,,			100	"-	Ø				СМ	1	₹	`{
	83.30	\sim	81.30 m - 81.75 m			:					(a	-			"		3	4
		$\cancel{\times}\cancel{\times}$	85.25 m - 85.67 m								Ø							
		$\cancel{\infty}$	86.00 m - 86.60 m	>20	F	50°		none	100	20								
84.00	63.90	\times	87.00 m - 87.75 m	1	-													
		8																
		∞	Low core recovery is due to	>20	F			none	100	0								
	84,50	$ \angle $	mechanical grinding within								<i>(</i> ()							
		K	fractured zones and closely	>20	F			none	100	0							1 1	
85.00	85.00	K Z Z I	spaced joints.															
		$ \angle \angle \angle \angle \angle \angle \angle $	•									П						
		<i>XX</i>	The actual depth of lost zones	>20	£	40*		none	37	0						\leftarrow	 	
		$\times\!\!\times\!\!\times$	could not be traced because of									П					≥ 4	
	65.67	XX	its broken nature.									П			-			$\overline{}$
86.00												П			CM	1	3	4
				>20	F			none	35	0						\setminus		
		8										Ш				Ι.	\bowtie	
	88,60	$\langle \chi \chi \rangle$										Ц			<u> _</u>	\angle	L	\geq
		∞		>20	F			none	100	0								
87.00	87.00	\times										7			СМ	1	2~3	4,
		∞														$ \setminus $	J	
																	\sim	
		$\langle \chi \chi \rangle$		>20	F			ภอกอ	25	0						/	ľÌ	
		$\times\!\!\times\!\!$													-	K-	\vdash	\rightarrow
00.88	88.00	$\times\!\!\times\!\!\times$										Ц						
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				1							//				1	Į		
	-	XX			_	400 =00			,		//			ĺ	 		2	3
**		XX		10	F	,50°	sm-r, pl	none	100	22	0				СМ	1	₹ .	}
89.00						ĺ					//						3	4
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	ł			,,	E	ĺ		none	100							ĺ		
				13	F			none	100	0						1		
00.00																1		
90,00	90.00	<u> </u>	on Citi Cilabili ittaaska 4 satti sa - 4 -		anth-	ed min.	llater		<u></u>	<u></u>	mlatal141		***************************************	l	ــــــــــــــــــــــــــــــــــــــ		ì	
			esh,SW-Slightly Weathered,MW-Mode															
- MICC	14 IBOILIDE	JI CAK,	CL-Coreloss, Pl-Planar, Sm-Smooth,	***UGGG(P. 12 "ITT	CHEUINI.												

Drilled by:S.R. Timilshina/T.Neupane Logged by: S.K.Karmacharya/S.Shrestha Reviewed by: J. M. Tamrakar

			BOR					(73)	•							s	HEE	T 1	0/10		
DRILL I		NO.:	B-6	LOCA		Discor Charac	ntinuity	,			Сот				 >-				k Mas Ificatio		
Depth, m	Run Depth, m	go.1	Description of Rock/Soll	Joints/m	Weathering	orientation	Roughness	Filling Materials	Recovery %	RQD %	Rec RQI) <u> </u>	08	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
			DOLOMITE Grey, hard to mod hard,	>20	F			none	100	0							Ci.	2	3	4~5	
91.00	90.50 91.00		fresh fine grained & fractured Cores are broken due to mechanical grinding in fractured zones and closely spaced joints. Most of the cores are broken	>20	F	40°		none	100	0							СМ	2	2 2 3	3 ≀ 4	9
	91.75		into small fragments from	220						<u> </u>							_				
92.00			91.20 m - 91.75 m		i																9
			Low core recovery is due to mechanical grinding within fractured zones and closely spaced joints.																		
			The actual depth of lost zones could not be traced because of its broken nature.																		
		 	Hole terminated at 91.75 m							\vdash		\dagger	-	Н						T	1
		:																			ł
																					-
	-																				
			resh,SW-Slightly Wealhered,#W-Mod c, CL-Coreloss, Pl-Planar, Sm-Smooth			regular,	FeO-Iro	n Oxide		lay, Si	-Silt,	calc-	calc	lc	:d						_
SRC La Drilled		Timils	hina/T.Neupane Logged by: S.K.Ka	rmacha	rya/S,S		d:2061. Rev	10.09 lewed b	y: J. I		plete: iraksi		1.11	.07							\exists

	·		ВС	R	E HO	OLE	LC	G										SHI	ET	1/5		
DRILL COOR INCLIN	DINAT IATIO	'ES: N: 45°	X: 3		98.93 ECTIO	N: 287°				52545									307.	93		
			iE: Long Year D: Rotary Drilling / Wire line :	Svste	m			CAS								n; N\ er bed		45 n	1			
	iii Ca iii	211.0	5, trocary printing, through	T	******	Disconti	nuity				_	re		. (.			<u> </u>	Γ,		Mas ficati		l
ε	Ę			E		haracte			۸%	٠	Re					ility 18)	sts		T			
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	infiling materials	Recovery %	RQD %	П	\$ 3D	60	80	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
		90	ALLUVIUM (overburden) Consisting of angular to	1							†										*********	١
		\circ	rounded fragments of gneiss,																			l
1.00		\circ	quartzite and calc. rocks. Max. size of the fragments																			1
1.00			is 20 cm																			ľ
		ŏЧ									1											l
	1.70	0																				l
2.00		\mathbb{X}^0																				2
		0																				
-		\bowtie 0																				
3.00	2.90	ĬO.																				3
		\bigcirc 0								1												l
		ಂ																				l
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4.00	4.00			-														1		1		F
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	4.50	\mathbb{A}^{\vee}	'																			ı
5.00		\bowtie 0												l								5
	5.25	\bigcirc												l								
	5.50	90											1									ı
6,00	6,00	ြဝ													1							6
		l n																				Ī
	6,50	\bigcirc				1								1								
		\bigcap_{α}																1		ļ		L
7.00	7.00	ЮV													1							7
		0								1			1									
		Θ'n													ļ		1			1		
8.00	8.00	00												l								8
_		\bigcap_{Λ}												l								1
	1	av									ļ											ı
9.00	9.00	KQ.																				9
5.00	3.00	18 0															1					ľ
		ſ Ó				1							-									1
	1	8													1							
10.00	10.00	[<u>::</u> 0	j		1	1	ADV 122	- h h : 12		1		<u>L</u>	1		147	1	1_			<u></u>	1	- [1
			resh,SW-Slightly Weathered,MW-M , CL-Coreloss, PI-Planar, Sm-Smoo														u					
	ab, NEA					d:2061.1		~~~~		pletec	-	_			_							1
Driffed	by: S.F	. Timils	hina/T.Neupane Logged by:	S.Shre	stha	Rev	ewed	by: J.	M. Tar	nraka	T											⅃

		****	BOR	EH	IOL	E L()G							-	MARCE D			s	HE	ET	2/5		
DRILL	HOLE	NO.:	B-7	LOC	ATIO	l: Dam	Axis	(L/B)				*******											
٠	E			_		Discont haracte			%		Co	ore c.	E		=	<u> </u>	sts		c	lassi	Mas ficati	Oπ	
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	Infilling materials	Recovery	RQD %	RC	9 0 0	09	8	18	Permeability	Other tests		Classification	Weathering	Hardness	Joint spacing	
11.00	11,00		ALLUVIUM (overburden) Consisting of angular to rounded fragments of gneiss, quartzite and calc. rocks. Max. size of the fragments is 10 cm							L. L. L. L. L. L. L. L. L. L. L. L. L. L													11
12,00	11:50				LEISANDON																<u>.</u>		12
13.00	13.00					The state of the s															AND THE RESERVE OF THE PARTY OF		13
14,00	14.00				THE PARTY OF THE P	- Catalographic Control of the Contr					-												14
15,00				Lacomonic																			18
16.00	15.50																ALCONO.						16
17.00	17.00	00					LANDOTTO T																17
18.00	18.50																						18
19.00	.5.50) () () () () ()																					_19
20,00	20,00	0	resh,SW-Slightly Weathered,MW-M	lodora	talu Wa	nihorod.		ahlı W	/eathe	red C	w.c		nlet	elv	We	sthe	red						,21
			resn,5w-Signtly Weathered,MW-M , CL-Coreloss, PI-Planar, Sm-Smo																				
SRC L	ab, NEA				Start	ed;2061.	11.22		Con	plete	d:20												4
Drilled	by: S.F	t, Timits	shina/T.Neupane Logged by:	S.Shr	estha	Rev	lewed	by: J.	M, Ta	mraka	ŧr												١

			BOR	ΕF	IOL	E L()G									SHE	ET	3/5		
DRILL	HOLE	NO.:	B-7	LOC	OITA	N: Dam	Axis	(L/B)												
						Disconti					Core	:						Mass ficatio		
E	ţ,			Ę	C	haracte	ristic	3	<u>۲</u>	%	Rec.			E SE	ests	<u>5</u>	ğ	y	lng	
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	Infiling materials	Recovery %	BOD	S S BOD	ΤÏ	8 2	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
		ಂ	ALLUVIUM (overburden)								П		\top							
	20.50	Ö۸	Consisting of sand & angular to rounded fragments of gneiss,																	l
		$^{\circ}$	quartzite and dolomite.												1					
21.00	21.00	ĬO.	Max. size of the fragments																	21
		O_{Ω}	is 10 cm																	ı
	21.50	\circ																		
		\sim		1																
22.00		$\simeq 0$													1					22
		\circ																		
		Ö۸														1				
		\circ																		
23.00	23.00	\sim																		23
		egtree 0					l							1						l
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		\cap																		
24,00		$\forall U$			1		ŀ													24
		O		1	ŀ															
		O_{\wedge}		ŀ		ļ														l
	24.50	\mathbb{A}^{\vee}		ŀ														1 1		l
25.00	25.00	Military.	Top of the bedrock at 25.0m											_						25
					F-SW	40°,45°	R,pl	FeO	100	0				1	1					
			DOLOMITE		_ ~	400		cl				2222		∄						l
	25.50		Grey, hard to mod hard, SW to fresh fine grained & fractured		F-SW	40°	R,pl		100	55				3		CM	1 2	3	3	
26,00	25.70	<i>}</i>	with quartz veins		F-SW	40°,35°	R,pl	FeO	100	20		m		3		\	'l -	١١	Ü	26
	26.20		In several runs the			, , , , , , ,	ir							₫						Ī
			cores are broken into small		F-SW	35°	R,pi	FeO	86	28										
	26,65-		fragments due to mechanical		_ ~		١, ,	- A		١.		317.1								
	28.90		grinding in fractured zones and in closely spaced joints.		F-SW	35°	H,pI	FeO	100	٥				<u> </u>	1		⇃		$\overline{}$	27
27.00	20.90		This has also resulted the							1			******	=				\mathbf{L}		۴'
			core loss in many sections.		F-SW		R,pl	FeO	100	٥						Ι,	\vdash	1 \		ı
		<i> }}</i>					ir							₫		1	 -	+-	_	ł
	27.80		Mechanical breaks are observed from		E 6/14	,		اما	400	_				1		CV.	2	3	4	100
28,00			26.67 m - 26.90 m		F-SW			cl	100	0				3		-	+	\bowtie	_	28
	28:30		27.60m - 27.80 m						ļ		772			₫		1			4	1
		***	28.15 m - 28.30 m	1	F-SW	30°,35°	R,pl	•	100	20				3		CN	1 2	3	3~4	1
	28.80	<i> }}}}</i>	29.00 m - 29.30 m				ir	cl		1				╡		-	 			125
29.00			29.70 m - 30.00 m Coreloss is observed from		F-SW		R,ir	1	60							+	十			29
	29:30		26.90 m - 27.60 m				` ',''	1	"	ľ	7777		<u>L</u>						3	
			27.80m - 28.15 m		F-SW	40°,45°	R,ir		75	32			=			CV	1 2	3	ł	
	29.70	*	28.80 m - 29.00 m		L					_				3		1			4	
30.00	30.00	XXX	29.60 m - 29.70 m	<u> </u>	F-SW		FeO		100			_		<u> </u>	1	<u> </u>				30
1			resh,SW-Slightly Weathered,MW-Mc												d					1
			, CL-Coreloss, Pl-Planar, Sm-Smoo	tn, R-				-iron						caicic						4
SRC La						d:2061.1		• 1			:2061	12,2	0							-
Driffed	by: S.A	. Timils	hina/T.Neupane Logged by: S	Shre	stha	Revi	ewed	by: J. I	w, fan	nraka										J

			BOR	EH	IOL	E LC)G								SHEE	T 4/	5
DRILL HO	DLE	NO.: I	3-7	LOC	ATIO	i: Dam	Axis	(L/B)							1 97	ck M	96
£ 4	E (Ę		Disconti haracte		•	%	%	Core Rec.		bility ns)	ests	Clas	sific	at le
Depth, m	Hun Dept	Log	Description of Rock/Soll	Joints/m	Weathering	Orientation	Roughness	Infiling materials	Recovery	RQD	8 8 B	100	Permeability (Lugeons)	Other tests	Classification	Hardness	200
		<i>777</i>	DOLOMITE	+	F-SW	30°	R,ir	FeO	50	0		\top				+	Ξ
	- 12	<i>???</i>	Grey, hard to mod hard, sw to						Į						211		
2	10.60	\mathscr{B}	fresh fine grained & fractured		_ ~	.03 500	ъ.		400	-00		1			CM	2 3	5
		\mathcal{G}	with quartz veins		F-5W	40°,50°	R,ir		100	30					СН	2 2	2
31.00		\mathcal{G}	In several runs the	1	ļ									ļ			
	37.70	933	cores are broken into small	1	F₁SW	40°	R.ir	FeO	46	0					17	$\Rightarrow \leftarrow$	\langle
	ľ	YXX	fragments due to mechanical	1		•	"						[]	1		+	4
a	LZ5	<i>Y</i>	grinding in fractured zones									- ,	15	1			1
32.00	ľ	$\langle \rangle \rangle \rangle$	and in closely spaced joints.	1	F-SW	40°,35°	R,pi	cl	75	17	Ø===	3 1	7.75	1	СМ	2 3	3
	ľ	$\langle \rangle \langle \rangle$	This has also resulted the				ir				Ø===	≣	9				ļ
- 37	3.35	$\langle \rangle \langle \rangle$	coreloss in many sections.	1							MIIII.	ш	Value	1	\Box	_	
	ţ	$\rangle\!\rangle\!\rangle$			F-SW	45°	R,ir		100	57			>		СН	- 1	2
	2,70	$\rangle\!\!/\!\!\!/$	Mechanical breaks are			050 450	n !-		400	^~			ugeon		\\\rightarrow\rightarr		3
33.00 33	3.00	222	observed from		5*	35°,45°	R,ir		100	33	Minni	///	ge	l	+-	+	-
	t	222	30.30 m - 30.60 m 36.20m - 36.50 m		F	40°	R,ir		100	86			13				-
	b	XXX	36.20m - 36.50 m 37.65 m - 38.00 m		"	~~	1 1,55		۰۶۰	~		<i>////</i> =	1				1
	3:70	XXX	38.00 m - 38.10 m		1]					1	ĺ			
	4.00	XX	38.30 m - 38.35 m	1	F	35°	R,ir		100	50			1	1	В	1 3	2
	[<i>99</i>	39.30m - 39.40 m	1			•					<u> </u>	1	ļ			
	ŀ	<i>9</i> 99	Coreloss is observed from		F	50°,35°	R,pl		100	78		<u>/=</u>	1				
	ŀ	<i>Y</i>	30.00 m - 30.30 m				ir	1				<u>//=</u>					1
	4,95	<i>733</i>	30.60m - 30.70 m	1	_		l					<u> </u>					_
35.00 3	5.00	<i>7</i> 22	31.10 m - 31.45 m		F	40°	R,ir		100	0			-		CH.	1	2
-		YY)	37.00 m - 37.65 m	1	F	45°	0:-		100	62		-	1				
\vdash		YY?	38.35m - 38.70 m	1	-	45.	R,ir		100	02				Į			
 _	5.B0	<i>YY</i>	Low core recovery is due to					1				=	1	2000	В	1	2
36.00	J.00	<i>>>>></i>	mechanical grinding within		F	45°	R,ir		100	37			1	Ì			
	5.20	$\ddot{\chi}\ddot{\chi}\dot{\chi}$	fractured zones and closely		1	~	"			ľ			1	ł			
		$\cancel{X}\cancel{X}$	spaced joints.	1	F				100	o			1		СМ	1	3
	6:50**	222	3		[1		1		ŀ		T	1		+	┪	
	ļ	$\cancel{\times}\cancel{\times}$	The actual depth of lost zones	1	F	50°	R,pl		57	0			3.10				_
37.00		XX	could not be traced because				ir							1	CH	1+	2
		XX	of its broken nature.			1	1			1			9	I	17	\checkmark	_
		$\cancel{\times}\cancel{\times}$											eon Value		11	个	\
		XX	B				1	1		ŀ			-		СМ	1	3
38.00 3			8					1					ğ		""	1	-
38.00 3	8.00	XX	8		F	45°	B.ir	FeO	100	28		<u>l</u>	lig.		СН	1	2
一一,	8.35	\mathscr{U}	8		'	~	1	cl		-			1				
		<i>XX</i> .	8			1		1	1	1		1		1		\Rightarrow	<
			8		F	40°	R,pl	I	62	23		1	Į			\dashv	
39.00			8				ìr					1					
	9,40	<i>YYY</i>	Ä		1							<u> </u>	1	H			2
		<i>}}</i>	X							1			=		СМ	1	?
		<i>}</i>	X		F	40°	R,pl	4	100	25				1			3
		 	X				ir		1					1	СН	3	2
1	10.00	\sim	<u> </u>			ــــــــــــــــــــــــــــــــــــــ			1	ــــــــــــــــــــــــــــــــــــــ	(11)		<u> </u>	<u> </u>	ION	<u>.</u>	_
LABBREVI			resh,SW-Slightly Weathered,MW-N											d			
					DAME	Ir-irracit	iar Ent	Taleon.	Ovida	CLC	iav. Si-Silt.	CSIC-C	calcic				
	anica	Breat	, CL-Coreloss, Pl-Planar, Sm-Smo	oin, H		d:2061.1		0-11017			1:2061.12.2					_	

			BOR	EH	IOL	E L)G								SHE	ET	5/5	
RILL HO	LE	NO.: I	3-7	LOC	ATIO	N: Dam	Axis	(L/B)				······				**********		
E 4				m		Disconti Characte			y %	%	Core Rec.		ility 18)	SIS		lassi	Mass	ЭП
Depth, m Run Depth,		Log	Description of Rock/Soll	Joints/m	Weathering	Orientation	Roughness	inflling materials	Recovery %	RQD 9	8 8 BOD	09 80 100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
	7		DOLOMITE							•					-	-		X400000000
40	0.60		Grey, strong to mod strong, fresh fine grained & fractured with quartz veins		۴	45°	R,pl ir		100	50								
1.00			In several runs the		F	60°,45°	R,pl		100	62					СН	1	2	3
			cores are broken into small												"	,	_	Ū
	1.50		fragments due to mechanical grinding in fractured zones		F	45°	R,ir		100	40		(11/5	o					
2.00 42.0	00		and in closely spaced joints.										1.79					
42.	40		This has also resulted the core loss in many sections.		F	50°,55°	R,pl		100	27			lne		L			
			Mechanical breaks are		F	60°	R,pi	1	75	0			Lugeon Value		См	1	2	3
0.00 43.0	.00		observed from										8		<u></u>		3	4
-			42.55 m - 43.00 m 43.55 m - 45.00 m										٦		`			
	K	XX	45.50 m - 45.65 m		F				62	٥			-					_
		<i>!!!!</i>	45.90 m - 46.50 m									=			<u> </u>			
1,00	. /		46.70m - 47.15 m															
44,	20		47.30 m - 47.70 m 48.15 m - 48.55 m										1		СМ	1	3	4
			49.00m - 50.00 m		F	40°			100	0								·
5.00 45.1	.no		Coreloss is observed from			1								Ì				
	<u></u>		42.40 m - 42.55 m					ĺ				ПП		1				
	ľ		43.00 m - 43.55 m		F				23	0	目				_	->		_
45.		\mathcal{Z}	45.00 m - 45.50 m 45.65 m - 45.90 m															
6,00	.65 F		47.15 m - 47.30 m		F				44	0	目			2000				
46.	:10-																	
	1		Low core recovery is due to	1	F	40°,45°	R,pl	İ	100	0			1		l		2	
46:	.50	XX	mechanical grinding within fractured zones and closely			1							5		СМ	1	3	4
7.00	E		spaced joints.	ļ	F	40°,45°			100	21	#		7.				١	
47,	.15		•			'							_					
	ľ		The actual depth of lost zones		_		<u> </u>		۱				geon Value	ř Ř				
47.		?	could not be traced because of its broken nature.		F	1	R,ir		64	0] >	ļ	-			
8.00			or no broker reduce.		F	45°	R,pl	cł	100	27	///		5				2~3	3~4
40.	.45-{						ir						Lug				 	
	_	XXX			F					0		······································	₫			1	3	4
	-55	<i>>>>></i>			F	40°,45°	R,ir		100	44			1	l		†	 	
9,00 49.	.00					"	,,,								CH	1_1_	2	3
49.	.40				F				100	0								
	7					,							1	200000	CM	1	3	4
50.00 50.	.00		Hole terminated at 50.00m		F	45°	ft,ir		100	0								
		IS:F-Fr	esh,SW-Silghtly Weathered,MW-Mo	derat	ely We	sthered,H	W-Hig	hly W	ather	ed,CV	/-Com	oletely We	athere	d d			**********	•
			CL-Coreloss, Pl-Planar, Sm-Smoo					-										
C Lab, N						d:2061.1					:2061.1							

SRC Lab, NEA Drilled by: S.R. Timilshina/T.Neupane

Logged by: S.Shrestha

Started:2061.11.22 Completed:2061.12.20 stha Reviewed by: J. M. Tamrakar

BORE HOLE LOG SHEET 1/10 DRILL HOLE NO.: B-8 COORDINATES: X: 3092723.719 Y: 525502.468 Z: 401.6 INCLINATION: 45° **DIRECTION: 107°** DRILLING MACHINE: Long Year CASING DEPTH: NW: 9.00 m DRILLING METHOD: Rotary Drilling / Wire line System WATER TABLE: none Rock Mass Discontinuity Core Classification Characteristics Other tests Rec. ε Depth, Joints/m Recovery Weathering Hardness Log RQD Depth, ROD Description of Rock/Soll Weathering Infilling materials Roughness 100 8 8 8 Drilled from the bedrock 3 3 40 0 Dolomite SW-MW Grey, hard, slightly weathered 1.00 fine grained 2 50° R CH 3 MW Calc 100 0 In several runs low core recovery is obtained and cores 0 0 are broken into small fragments 2.00 2.00 due to mechanical grinding with in fractured zones and closely 12 SW 50° Calc 50 spaced joints. 3 3.00 The actual depth of lost zones could not be traced because 3 SW 50° R,PI Calc 60 26 of its broken nature. FeO 3 CM 2 3 Į All joint paramenters can't be 4.00 4.00 measured because of smaller SW R,PI Calc 25 0 fragments. 1 CM 2 3 3~ MB in fractured zones are 5,00 observed from >20 F-SW R.PI FeO 43 0 0.00 m to 0.40 m 1.00 m to 1.35 m 3.78 m to 3.82 m CN 3 4 >20 F-SW Calc 53 0 5.20 m to 5.50 m 6.00 6.70 m to 7.00 m 8.00 m to 8.50 m 9.20 m to 9.40 m 7,00 CM Coreloss is observed from 0 0.40 m to 1.00 m >20 F-SW R Calc 33 1.35 m to 2.00 m 2.00 m to 2.50 m 3.00 m to 3.40 m 8.00 4.00 m to 4.60 m 4.80 m to 5.20 m 3 4 >20 SW Calc 22 0 В 6.00 m to 6.70 m 7.00 m to 8.00 m 9.00 8.50 m to 9.20 m 9.40 m to 9.90 m CM 2 3 SW 40° н none 17 0 ABBREVIATIONS:F- Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered MB-Mechanical Break, CL-Coreloss, PI-Planar, Sm-Smooth, R-Rough, ir-Irregular,FeO-Iron Oxide, Cl-Clay, SI-Silt, calc-calcic Started: 2062,02.23 Completed: 2062.04.27 SRC Lab, NEA Reviewed by: J. M. Tamrakar

Logged by: S.Shrestha

Drilled by: B.Neupane/ D. Adhikari

			BORE	HC	LE	LC	G									;	SHEE	T 2/	10
DRILL I	HOLE	NO.: B	-8	LOC	ATIO	N: Da	m Ax	s (L/B)							,		·····		
=	E			_		Disco Charac			%		Co			=	ity S	sts	Clas	ck Ma ssifica	tlon
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	infiling materials	Recovery %	RQD %	RQ	D	8 8	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Joint spacing
			Dolomite with quartz veins Grey, hard, slightly weathered fine grained						0	0									
12.00	11.50		In several runs fow core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in fractured zones and closely spaced joints. Mechanical breaks are observed	>20	sw	20°	R,P)	поле	67	0							CL	2 3	4~5
13.00	13.00		12.00 m to 13.00 m 14.00 m to 14.50 m 15.50 m to 16.00 m 18.80 m to 19.00 m 7.45 m to 7.50 m 9.00 m to 9.30 m	>20	sw		R		33	0							D	2 3	
15.00	14.50		Coreloss is observed from 10.00 m to 12.00 m 13.00 m to 14.00 m 14.50 m to 15.50 m 16.00 m to 18.80 m 19.00 m to 20.00 m	>20	sw	30°	Martin Property and the Control of t		33	0							СМ	2 3	4
16.00	16,00		The above mentioned corelosses are not due to the presence of caves or caverns or voids.	>20	sw				33	0									1
18.00	17.50			>20	sw			Additional Control of the Control of	13	0								\bigwedge	
19,00	19.00								0	0							СМ	2 3	1 4
			sh,SW-Slightly Weathered,MW-Modera																
MB-Mec SRC Lat		ereak, (CL-Coreloss, PI-Planar, Sm-Smooth, R	-нопа	***	regula ted: 20			io, Ci-						04.27				
		ирапе/	D, Adhikari L	ogged		.Shres			Revi			_							

			BORE	НО	LE	LO	G							 · · ·		SHEET	3/10
RILLF	OLE !	NO.: B	-8	LOCA	TIOI	۷: Dan	n Axi	s (L/B)									
_	Ε			e		Discor harac			/%		Core Rec.	_		<u>}</u>	sts	Class	k Mass Hication
Depth, m	Run Depth,	Log	Description of Rock/Soll	Joints/m	Weathering	Orientation	Roughness	Infliing materials	Recovery %	RQD %	S S		8 S	Permeability	Other tests	Classification	Hardness Joint spacing
			Dolomite with quartz veins		F				40	0						\Box	\mathbb{A}
	20.50		Grey, hard, slightly weathered fine grained									1				2	3 4
					_				3	0						N	
21.00			In several runs low core		F				3	٦							
			recovery is obtained and cores													1 1/	\mathbb{N}
]		are broken into small fragments				İ							_	İ	II	1 N
<u></u>			due to mechanical grinding with											9.11		1 2	3 4
22.00	22,00	 	in fractured zones and closely spaced joints.						1						12		
														Lugeon Value			/
			Mechanical breaks and fractured						0	0	1					$ \cdot $	1 1/
			zones are observed from											ğ			V
23.00	1		20.30 m to 20.50 m	1										۱ğ	,	1 1	
	1		26.00 m to 26.50 m							ŀ		1		=	ŀ		1 /
	23.50		27.30 m to 28.00 m													'	\[/ [
	ļ		29.00 m to 29.50 m						0	0					1		٧I
24.00	1		Coreloss is observed from						ľ	ľ							Λ
	1		20.00 m to 20.30 m								11		П				/[\[
]		20.50 m to 21.95 m											1			
	l		22.00 m to 26.00 m 26.50 m to 27.30 m								11					1 /	1 \
25.00	25,00	 	28.00 m to 29.00 m										П	_		1/	1 /
-			29.50 m to 30.00 m	>20	F		R	FeO	33	0					1	/	+
]						1							İ		1/1	11'
	-		1							1						V 1	1
25.00	1		1														
	1		1											- 1	ı	CM 2	2 3 4
	25,50	-888	3	1								=		_	$\ $	M	
				>20	F	50°	R	Calc	40	0		=		110		1 1	
27.00	-		1	>20		30	"	FeO	""	ľ		∄			- 11		\mathbb{N}
	1	***	7	1								∄ .		=	į	4	11
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	1		3	1		1						∄		5	.	CM	2 3 4
28,00	28.00	- (///										Ħ		921	1		11,
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	1		Ø	>20	F	1			33	0							X
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29.00	-		X									1		ļ			_
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	29.50	-{}}	Ø								Ī	1					\t
	J	. 🗱	8		F				0	(\mathbb{A}
30.00	30.00			atelir 1	/eath	l Least Mu	/-Hinh	ly Weath	lezad	CM-	Compl	eteh	/ Wes	there.	<u> </u>	<u> </u>	
IB.Mer	viATIOI :hanical	to:r-rii Break	esn,sw-Slightly Weathered,mw-model CL-Coreloss, Pl-Planar, Sm-Smooth, I	R-Roug	h, k-l	rregula	r,FeO-	iron Oxl	de, Cl	-Cla	, SI-S	ilt, c	alc-c	alcic			
	b, NEA			3		ted: 20								2,04,2	7		
		unana/	D. Adhikari	Logge		S.Shres			Rev					ırakar			

RILL H	OLE N	Ю.: В	-8	LOCA	OIT	N: Dar	n Axi	s (L/B)				,,,,,,,				,	,	ock.	Mass	
ε	h, m			Ę		Discor Charac			%	%	Co Re				bility ins)	ests	Cla	issif	catio	n
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	Infliling materials	Recovery	RQD	PQ 07	٦,	09 08	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
			Dolomite with quartz velns Grey, hard, slightly weathered fine grained	>20	F				0	0										/
31.00	31.00		In several runs low core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in fractured zones and closely	>20	F				17	0										\
32,00	32.50		spaced joints. Mechanical breaks and fractured zones are observed from														CL.	2	3	4~5
33.00	32.80		32.25 m to 32.50 m	>20	F	30°	R		100	0							СМ	2	3	4
			32.80 m to 33.00 m 37.20 m to 37.25 m 37.80 m to 38.80 m	7	F	30°,40	R	Calc	100	14										
34.00	33,70 34,00		39.45 m to 39.60 m Most of the mechanical breaks	10	F	40°	R,PI		100											
	34.50		are in fracture zones Coreloss is observed from	16-20	F	20°,40 40°	R,PI,i	FeO	100	1										
35.00	34.90		30.00 m to 32.25 m	14	F	50°,60	R,PI,i	FeO FeO	100	0						1				
36,00	35.50			7	F	25°,40	R,PI,i	FeO	100	37					.1		Cł	2	2	3
37.00	37,00			10	F	30°,40 50°)R,PI,i	FeO	100	22					on Value 38.					
38.00	38.00			13	F	40°	R,PI,i	Calc	100	0		<i>'</i> 5			Luge					
39.00	38.60			12-15	F	40°,5	P,PI,	i Caic	100) 10										
40.00	39.65	- 【ススス		14	F	50°.4	0R,PI,	Calc FeO	•) c										

SRC Lab, NEA Started: 2062.02.23 Completed: 2062.04.27

Drilled by: B.Neupane/ D. Adhikari Logged by: S.Shrestha Reviewed by: J. M. Tamrakar

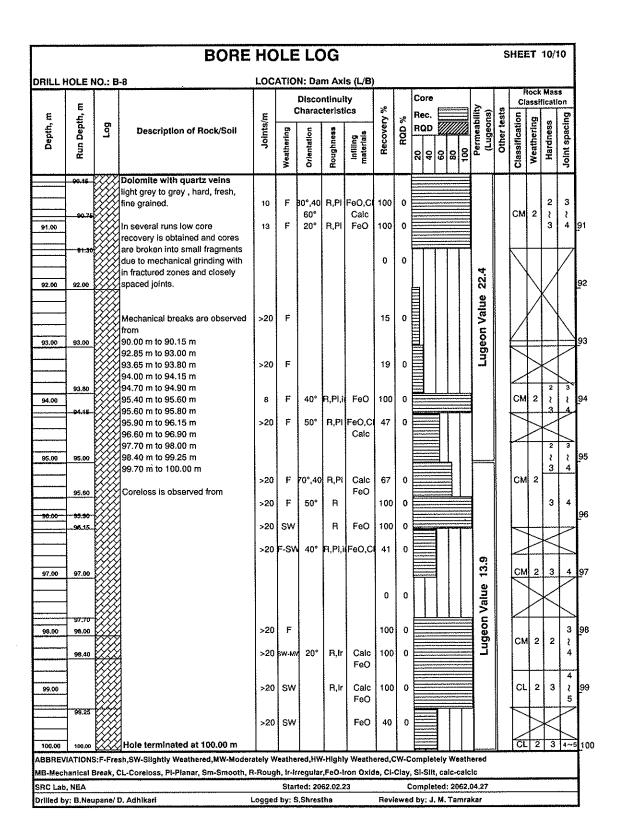
DRILL HO	LE N	0.: B	-8	LOC	ATIO	N: Dai	n Axi	s (L/B)							-1	Be	ck N	Ìв
ε	th, m	<u>"</u>		m/s		Disco	teristi		% sıx	%	Core Rec.			ons)	tests	Cla	sifk	a
Depth, m	Run Depth, m	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	infliling materials	Recovery	RaD %	8 S	80	100 Milli	(Lugeons)	Other tests	Classification	Weathering	Hardness
			Dolomite with quartz veins Grey, hard, slightly weathered fine grained	>20	F	***********	R,PI		60	0							1	_
41.00			In several runs cores												ļ		1	
	41.50		are broken into small fragments due to mechanical grinding with in fractured zones and closely												Ì	СМ	~2 2	·~
42.00			spaced joints. MB is observed from	>20	F	50°,70	R,PI		67	0							*	<
			41.20 m to 41.42 m 42.80 m to 42.60 m 43.00 m to 45.00 m															
43.00	43.00		45.45 m to 45.60 m 45.80 m to 46.00 m 46.15 m to 47.00 m	>20	F		R,PI		100	0						СМ	1 ≀ 2	2 2 3
			48.58 m to 48.72 m 49.00 m to 49.40 m	>20	ľ		13,11		100									•
44.00	44.00		49.60 m to 49.75 m CL is observed between	>20	F		A,PI		100	0								
	44.50 45.00		40.00 m to 41.20 m 41.50 m to 42.00 m	>20	F	30°	R,PI	FeO	100	0								
45.00	43.00			9	F	50°	R,PI		100	12						СН	1	;
46.00	45.80		Low core recovery is due to mechanical grinding within fractured zones and closely												_		-	_
	46.60		spaced joints. The actual depth of lost zones	2	F	B0°,40	R,PI	FeO	100	0						СМ	2	:
47.00	47.00		could not be traced because of its broken nature.	>20	F	50°	R		100	0		<i>//</i> //		s 1.23			_	
				9	F	60°,40	R,PI		100	54				n Value				
48.00	47.70			9	F	15°,40	P,Pi,i	Calc	100	37				Lugeon		СН	1 ≀ 2	;
	48.40			10	F	60°,50	R,Pi	Calc	100	33		4		_			-	
49.00	49.00 49.40			>20	F		 R,PI,I 	FeO	100	0							1	
50.00	50.00			10	F	60°	R,PI		100	0						СМ	2	

			BORE	HC)LE	E LC)G			•					5	SHE	ET	6/1	0	
DRILL F	IOLE I	10.: B	!-8	LOC	ATIC	N: Da	m Axi	is (L/B)	}											
_	E.			n		Disco Charac			′%	_	Core		=	e) (s	sts	Cla	ssi	Mas Icati	on	
Depth, m	Run Depth,	Log	Description of Rock/Solt	Joints/m	Weathering	Orientation	Roughness	Infliling materials	Recovery %	RQD %	RQD	T	5 5	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
			Dolomite with quartz veins		_	-00.40										СМ	2	2~3	3	
			Grey, hard, slightly weathered fine grained	6	F	50°,40	H,PI		100	0	<u>.</u>								<u> </u>	l
51.00	50.80		In several runs cores are broken into small fragments due to mechanical grinding with	9-15	F	50°,40	R,Pi		100	36									4	5
52.00	51,50		in fractured zones and closely spaced joints.	10	F	15°,50 70°	R,PI	CI	100	10				se 5.02		СН		2	3	5:
53.00	52,45 53,00 53,20		Mechanica breaks are observed from 50.00 m to 50.20 m 50.45 m 50.65 m	7	F	50°	B,PI		100	33				Lugeon Value	I\$		2			5
	53.20		50.80 m to 51.00 m 54.25 m to 54.35 m	15	F	40°	R,PI		100	0	<u></u>			Ě						
54.00			54.60 m to 54.85 m 55.35 m to 56.00 m 58.35 m to 58.60 m	6	F	50°,40	R,PI,ii	; 	100	14										5
34.00	54,25		59.20 m to 59.35 m 59.90 m to 60.00 m	4	F	50°	R,PI		100	13										ľ
55.00	55.00			. 6	F		R		100	28							1	2	3	5
	55.35															СМ	₹	₹	{ }	l
56,00	55.55			>20 6	F	20°,60	R,Pì	FeO	100	9							2	3	4	5
57.00	56.60			10	F	50°,50	R,PI	FeO	100	0				2.88	3	СН	1 2	2	3	5
50 00	57.30			я	E	20°,60	RPI		100	13				on Value						5
58,00	En ec					50°	, ,,,, ,		.00					Luge						ľ
59.00	58.60			7-12	F	20°,40	R,PJ		100	0						СМ	1 ≀ 2	2 3	3 ? 4	5.
60,00	59.50			10	F	20°,60	R,PI		100	20						СН	2	2	3	6
•	IATION		sh,SW-Slightly Weathered,MW-Moder																	T
		Break, (CL-Coreloss, PI-Planar, Sm-Smooth, F	l-Roug		rregular rted: 20			ie, Cl-		SI-SIII omple	_								1
SRC Lab	·····	ipane/	D. Adhikari i	ogaea		rtea: 20 S.Shres			Revi		omple by: J									1

			BORE	НО	LE	LC	G								SHEE	T 7/	10
DRILL	HOLE	NO.: E	-8	LOC	TIO	N: Da	n Axi	ls (L/B))		· · · · · · · · · · · · · · · · · · ·		1		Ĥć	ck Ma	55
۵	£					Disco Charac		- :	%/		Core Rec.		E E	sts	Cla	sifica	tion
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	Infiling materials	Recovery	ROD %	02 04 BØD	8 8 5 5	Permeability (Lugeons)	Other tests	Classification	Weathering	Joint spacing
			Dolomite with quartz veins light grey to grey , hard, fresh,														
	-		fine grained.	8	F	20°,60	R,PI	FeO,CI	100	15							
61.00	_		in several runs cores												СН	2 2	3
	61,20		are broken into small fragments due to mechanical grinding with	10	F	20°,40	R,PI	FeO,C	100	20							
	61.70		in fractured zones and closely spaced joints.									TI	12.		\vdash		-
52,00	1												-		СМ	2 3	14
	1		Mechanical break is observed from	>20	F	40°	R,PI	none	38	0			/altr			*	1
	1		1										Į į		4		ho
63.00	63.00		60.00 m to 61.20 m 61.70 m to 62.00 m	11	F	50°	R,PI,i	FeO,C	100	27			Lugeon Value				
	63.45		63.75 m to 63.85 m 64.50 m to 65.20 m					Calc					"		СН	2 2	: 3
54,00	-		65.60 m to 65.75 m 66.10 m to 67.60 m	12	F	20°,40	R,PI,i	FeO,C	100	0						ŀ	
	1		68.30 m to 68.60 m 68.80 m to 69.00 m														
			69.40 m to 70.00 m													_	+
65.00			CL is observed between	7	F	30°,40	R,PI	поле	100	0				4	СМ	2 3	3 4
	}		62.00 m to 62.80 m			60°											+
	65.60														СН	- 1	2 3
66.00	68.10			12	F	50°,40	Sm-i	FeO	100	20						2	
]			>20	F	40°	sm-ı	,	100								
					ļ .	'	Pi								СМ		2 4
67.00	67.10	-			_				401								3
	67.60			>20	F				100	0						1	\perp
68.00	-			7	F	20°	R,PI,	lr ir	100	0 0						2	
	68.40		× ×														
				7	F	50°,4	R,PI,	ir 1	100	0					СН		2 3
69.00																	
	- 03 .10				_										_		+
	_			5	F	50°,3	U PI,P	T FeO	10	J 22					СМ		2 4
70.00 ABBR			ash,SW-Slightly Weathered,MW-Mode	rately Y	/eath	ered,H\	 V-High	ly Weath	hered,	CW-0	Complet	ely Weat	hered			<u> </u>	3
MB-Me	chanical		CL-Coreloss, Pl-Planar, Sm-Smooth,		h, ir-	rregula	r,FeO-	iron Oxi		-Clay	, SI-Silt	celc-cal	clc				
	b, NEA		D, Adhikari	Logge		rted: 2		.23				ed: 2062 M. Tamr					

RILL HOLE NO.: B-9 Description of Rock/Soil Page Discontinuity Core	RILL M	OLER	ıo · R	-R	LOC	ATIO	N: Da	m Axi	is (L/B)										
Part Part							Disco	ntinui	ty					.	B	ı			on
100 100	Depth, m	Run Depth,	Log	Description of Rock/Soll	Joints/m					Recovery	RQD %	RQD	1000	Permeabili (Lugeons)	Other test	Classification	Weathering	Hardness	Joint spacing
True Fine grained				Dolomite with quartz veins	9	F	75°,40	R,PI		100	33						╗		********
In several runs low core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in fractured zones and closely spaced joints. Repair of the form Page		70:45	$\sim\sim$	1													1		
Mechanical breaks are observed 3 F 30°,40 R,P FeO 77 13	71.00			recovery is obtained and cores	6	F	70°,40	R,lr		100	30					СН		2	3
77.50 78.50 77.50 78.50 77.50 78.50	72.00	72.00		due to mechanical grinding with in fractured zones and closely												В	₹	2	2
77.50 78.50 77.50 78.50 77.50 78.50					3	F	30°,40	R,PI	FeO	77	13			on Value		_	2		4 2
71.30 m to 71.40 m 72.35 m to 72.60 m 73.00 m to 73.50 m 73.85 m to 74.25 m 74.50 m to 75.00 m 75.25 m to 76.30 m 76.65 m to 77.70 m 79.50 m to 80.00 m 72.00 m to 73.85 m 74.25 m to 76.30 m 75.25 m to 76.30 m 75.25 m to 76.30 m 75.25 m to 76.30 m 75.25 m to 76.30 m 75.25 m to 76.50 m 76.85 m to 77.50 m 76.80 m to 75.25 m 76.30 m to 76.50 m 76.50 m 76.50 m to 76.50 m 76.60 m to 76.50 m 76.6	73.00													nged					
74.25 74.50 m to 75.00 m 75.25 m to 76.30 m 76.65 m to 77.70 m 79.50 m to 80.00 m 79.50 m to 80.00 m 79.50 m to 80.00 m 79.50 m to 80.00 m 79.50 m to 80.00 m 79.50 m to 80.00 m 79.50 m to 72.35 m 79.50 m to 73.85 m 79.50 m to 75.25 m 76.30 m to 75.25 m 76.30 m to 75.25 m 76.30 m to 75.25 m 76.30 m to 76.50 m 76.50 m 76.30 m to 76.50 m 76.30 m to 76.50 m 76.30 m to 76.50 m 76.50 m To 76.50	74.00	73,50		71.30 m to 71.40 m 72.35 m to 72.60 m	>20	F				53	0					CL		3	4
CL is observed between 72.00 m to 72.35 m 73.50 m to 74.50 m 74.25 m to 74.50 m 75.00 m to 75.25 m 76.30 m to 76.50 m The actual depth of lost zones could not be traced because of its broken nature. 11 F 30°,40 R,PI FeO,Cl 100 0 78.20 12 F 20°,60 R,PI FeO,Cl 100 0 The actual depth of lost zones could not be traced because of its broken nature. 11 F 30°,40 R,PI,ir 100 21 79.00		74.25		74.50 m to 75.00 m 75.25 m to 76.30 m	>20	F			FeO,CI	67	0						2		5
72.00 m to 72.35 m 73.50 m to 73.85 m 74.25 m to 74.50 m 75.00 m to 75.25 m 76.30 m to 76.50 m The actual depth of lost zones could not be traced because of its broken nature. 11 F 30°,40 R,PI FeO,CI 100 0 12 F 20°,40 R,PI FeO,CI 100 0 13 FeO,CI 100 0 14 F 10°,40 R,PI FeO,CI 100 0 15 FeO,CI 100 0 16 FeO,CI 100 0 17 FeO,CI 100 0 18 FeO,CI 100 0 19 FeO,CI 100 0 10 FeO,CI 100 0 11 F 30°,40 R,PI FeO,CI 100 0 12 F 20°,40 R,PI FeO,CI 100 0 13 FeO,CI 100 0 14 F 10°,40 R,PI FeO,CI 100 0	75.00	75.00		79.50 m to 80.00 m	:												\geq		
75.00 m to 75.25 m 76.30 m to 76.50 m The actual depth of lost zones could not be traced because of its broken nature. 77.00 78.20 78.20 79.00		70.00		72.00 m to 72.35 m 73.50 m to 73.85 m	>20	F	40°	R,PI	FeO,C	75	0								
77.00 could not be traced because of its broken nature. >20 F 20°,60 R,P FeO,C 100 0	76,00			75.00 m to 75.25 m	>20	F	60°	R,PI	FeO,C	60	0					СМ	2	3	4
78.00 78.20 11 F S0°,40 R,Pl,ir 100 21 12 F 20°,40 R,Pl FeO,Cl 100 0 60°,70° 14 F 10°,40 R,Pl FeO,Cl 100 0 30°,50°	77.00			could not be traced because	>20	F		R,PI	FeO,C	100	0			ue 4		CI.	2	3	4 ~
78.00 78.20 11 F 80°,40 R,PI,ir 100 21 2 2 2 79.00 79.00 14 F 10°,40 R,PI FeO,CI 100 0 30°,50°		77:50												1 5			_	-	_5
79.00 79.00 CH 2 2 2 1 14 F 10°,40 R,Pl FeO,Cl 100 0	78.00	78.20			11									Luge					
30°,50°	79,00	79,00			12	F			FeO,C	100	0					СН	2	2	3
					14	F			FeO,C	100	0					<u></u>			3
80.00 B0.00					<u> </u>	<u> </u>			<u> </u>	Ļ				<u>L</u>		CM	<u> </u>		4

			BORE	НО	LE	E LC)G								5	HE	ET	9/10)
RILL	IOLE N	Ю.: В	-8	LOCA	TIO	N: Da	n Axi	s (L/B)								<u></u>	ock	Mas	
	,					Disco					Core	•		_				icati	
th, m	Run Depth, m	Log	Description of Rock/Soll	Joints/m		Charac			Recovery %	Rap %	Rec. RQD	-		Permeability (Lugeons)	Other tests	cation	ering	ess	acing
Depth,	Run D	1	·	Jor	Weathering	Orientation	Roughness	Infiling materials	Reco	ĕ	8 6	09	100	Pern (Lu	Oth	Classification	Weathering	Hardness	Joint spacing
			Dolomite with quartz veins	4	F	60°,40	ום מ	CI	100	0									
			light grey to grey , hard, fresh, fine grained.	*	ı	50°	13,3 1	OI	100							СМ	1 2	2 ~	3 ≀ 4
81.00	81,50		In several runs cores are broken into small fragments														-	٦	-
			due to mechanical grinding with in fractured zones and closely spaced joints.	6	F	45°,40	R,Pl		100	38				ε.			_		3
82.00	81.85		opacoo jorno.		_		ם מו	CI	100	20				18		СН	1	2	
			Mechanical breaks are observed	11	F	β0°,40 60°,50		CI	100	30		鵟		Value		0,.	2	-	2
	-		from 80.10 m to 80.35 m											چ ت					3
83.00	83.15		80.50 m to 80.85 m 81,00 m to 81,30 m											Lugeon		<u> </u>			
	1		81,75 m to 81.85 m	7	۴		R,Pl	FeO,CI	100	47				3		СМ	3	3	3~4
	}		83.15 m to 83.35 m 84.35 m to 84.70 m			70°		Calc											
84.00	84.00		85.00 m to 85.40 m													В	2	2	2
]		186.00 m to 86.35 m 187.35 m to 87.50 m	5	F	1	B,Pl	FeO	100	40									
	-		188.25 m to 88.35 m 189.45 m to 89.65 m			70°												2	3
85.00	85.00		CL is observed between									Ø=				СМ	2	₹	₹
			88.65 m to 89.45 m	8	F	•	R,PI,i	FeO,C	100	10						<u></u>	_	_	L.
	-		The actual depth of lost zones			50°													
86.00	86,00		could not be traced because												ļ				
	1		of its broken nature.	9	F	1 '	R,Pi	FeO,C	100	20						СН	2	2	3
	-					70°								9					
87.00	86.85			11	ㅁ	50° 40	la pi	FeO,C	100	17				6.49					
	1			''	"	,,,,	1 '''	, 30,0]	''				Value					
	87.60			16	۴	60°	R,PI	FeO	100	0				<u>ا</u> ا					Γ
88.00]													Luged		См	2	2 ≀	3
				10-20	F	60°,40	R,P	FeO	100	0				1				3	4
	88.65											T	TT		1		1	-	
89.00				>20	F				20	0								K	
								Calc				\perp		╛		CN	1 2	2	3
90.00	89.65		4	8	F	1	R,P	Fe0	100						_		Ľ	3	4
			sh,SW-Siightly Weathered,MW-Moder CL-Coreloss, Pi-Planar, Sm-Smooth, I																
	hanical b, NEA	Break,	CL-Coreloss, Pi-Planar, Sm-Smooth, I	1-Houg		rregula rted: 20			ue, Gl				aic-car 1: 2062						-
		unane/	D. Adhikari	Logger		S.Shres			Rev				, Tamr						



BORE HOLE LOG SHEET 1/15 DRILL HOLE NO.: B-9 Y: 525590.68 Z: 527.50 COORDINATES: X: 3092749.38 INCLINATION: Vertical DIRECTION: **CASING DEPTH:** DRILLING MACHINE: Long Year DRILLING METHOD: Rotary Drilling / Wire line System WATER TABLE: Core Discontinuity Classification Characteristics Other tests Permeability Classification Joint spacing Joints/m Weathering Recovery Run Depth, 9 ROD Description of Rock/Soil 88 8 8 Overburden materials Colluvial and residual deposits Coreloss NW casing advancement 1,00 2.00 3.00 Top of the bedrock at 3.75m R 40 12 2 2 MW to 35°,40° calc Dolomite with quartz vein 4.00 4.00 HW FeO CH ? ₹ 3 Grey, fine grained, medium hard Due to weathering and leaching 78 33 MW to R calc of calcite numerous perforations 4 FeO on the surface of cores filled by HW 5,00 CaCO₃, FeO, Si, Cl. Joint planes СН 3 ₹ ? and fractured planes are filled 3 by red soil. 72 FeO 100 7 F-SW sm-r In several runs low core 6.00 recovery is observed that is due to mechanical grinding with F-MW 50°,40° calc,cl 73 61 В 2 2 2 pl-ir FeO in highly weathered section, fractured zones and closely spaced joints. 7.00 Colreloss is observed between 5.90 m and 6.30 m CW 50 0 7.40 m and 8.15 m Brown colour, soft dolomite 8.00 Completely weathered cores are obtained from 8.15 m to 8.90 m СМ 4 3 Mechanically broken fragments 9.00 FeO 100 43 from 9.80 m to 9.90 m 6 SW 60° R,ir 9.20 100 0 10 SW 50° R FeO 2 2 CH 3 6 F-SW 60° R FeO 80 37 10 ABBREVIATIONS:F- Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered MB-Mechanical Break, CL-Coreloss, Pi-Planar, Sm-Smooth, R-Rough, ir-Irregular, FeO-iron Oxide, Ci-Clay, Si-Silt, calc-calcic Completed:2062.01,31 Started:2061.11.29 SRC Lab, NEA Drilled by:S.R. Timlishina/U.B. Chhetri Logged by: S.Shrestha Reviewed by: J. M. Tamrakar

			BORI		_								,	J115		2/15	
RILL	IOLE N	O.: B-	9	LOC	ATION	: Dam A		B)			Core	<u> </u>				Mass	
Ę	ith, m	m		u./s		Characte			sry %	%	Rec.	ability ons)	tests	-		icatio g	_
Depth,	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	infliling materials	Recovery	ROD %	00 P 00 P 00 P 00 P 00 P 00 P 00 P 00	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing
	10.30		Dolomite with quartz vein Grey, fine grained, mod. Hard												\exists		
			calcite leached, perforations	2	F	50°.60°	R,pl	calc	98	56					4	\leq	_
15,00			due to weathering.	2		30,00	r,pi	FeO	30	30				В	2	2	2
			In several runs low core					5i									
			recovery is observed that is]									ı	
12.00	11:90		due to mechanical grinding with in highly weathered section,											<u> </u>			
12.00	13.90		fractured zones and closely	7	F-SW	50°,60°	R,pl	calc	85	0					1		
	12.55		spaced joints.				ir	FeO si						СН	2	2	3
	12:30		leaching of calcite between	11	F-SW	60°,80°	R,pl	FeO	100	52							
13.00	13,05		12.20 m to 12.27 m	20	 F-SW	60°	ir Rir	calc	100	80							
	13.20		Coreloss is observed from					FeO									
·····			10.10 m - 10.65 m 12.45 m - 12.55 m											В	2	2	2
14,00				5	F-SW	40°	R,ir	calc	100	54							
	-		Mechanical breaks are from 12.35 m to 12.45 m					FeO						<u> </u>	ļ		
	1														2	2	3
15.00	14.90		The actual depth of lost zones could not be traced because													-	
			of its broken nature		F	50°,40°	D el		100	43		3		СН			
				8	-	50",40"	R _. pl		100	43					2	2	
	15,65			8	E C/A	60°,70°	sm-R	FeO	100	17					≀	≀ 3	3
15,00	1			ľ	F-3W	00,70	pl	calc	100	''					ľ	ľ	
	16,35												1	1			
	1																2
17.00]			6	F-SW	40°	sm-R	FeO	100	17							3
			HW cores obtained between		"	"	ir	calc	"	''					1		-
			17.45 m and 17.57 m											-	+		
18.00	17,85	 										3					
	-			6	sw	60°,75°	FR,ir	FeO	100	55							
	_				"	""	,	calc		"	<i>\\\\\</i>	=					
19.00	-							cl				3		В	2	2	2
	_					1									3		
	19.25		19.35 m to 19.70 m HW cores	4	sw	60°,70°	R	FeO	100	80		≣					
			many perforations containing		MW			calc									
20.00 BBBEV	MATIONS	XXX	≨ FeO, clay. sh,SW-Slightly Weathered,₩W-Moder	ately \	Veather	ed.HW-HI	ahiv Wa	athered	CW-C	omol	etely Weathered	=1			1	1	L
			L-Coreloss, Pl-Planar, Sm-Smooth, I														
RC Lai	b, NEA				Starte	d;2061.11	.29	Co	mplete	d:20	52.01.31						

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			BORI	ΕH	OLI	E LO	G		•		Western Comments		:	SHE	ET	3/15		
DRILL H	IOLE N	O.: B-)	LOC	ATION	: Dam /	Axis (L	/B)					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		łock	Mass		ŀ
e	E			ε		Discon Charact			%	%	Core Rec.	ااً (ق الله (ق	sts	Ç	assif	licatio	n	
Depth, m	Bun Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	Infiling materials	Recovery	RQD 9	\$ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
			Dolomite with quartz vein Grey, fine grained, mod. Hard calcite leached, numerous perforations due to weathering.											В	2	2	2	
21.00	20.85		Red soil on the surface of the cores from 20.85 m to 22.35 m In few runs low core recovery is observed that is	11	F-SW	60°,70°	R-ir	FeO calc,cl	100	36		alue 29.0		СМ	2	3	3	22
23.00			due to mechanical grinding with in highly weathered section, fractured zones and closely spaced joints.	9	F-SW	60°,50°	sm-R ir	FeO cl	100	9		ugeon Value		СМ	2	3	4	2:
	23.40		Mechanical breaks are observed from	10	F-SW	60°	R,r	calc	100	20		7		СМ	2	3	3	
24.00	23.90		22.65 m to 23.10 m 25.00 m to 25.15 m 26.55 m to 26.90 m 27.10 m to 27.80 m 28.85 m to 29.25 m	7	sw	60°,70° 40°	R,ir	calc	100	58				В	2	2	2	2:
25.00	25.00 25.40		Coreloss is observed from 26.35 m to 26.55 m	15	sw	60°	R,ir	calc Si	100	0				СМ		3	4	ľ
26,00			The actual depth of lost zones could not be traced because of its fractured nature.	9	SW MW	50°,70°	Ft,ir	calc	100	31				СН	2 } 3	2	3	2
27.00	26.06			>20	sw	40°,60°	R,ir	Libration	86	0		geon Value 31.0		CN	2 ? 3	3	3	2
28.00	27.80			7	F MW	70° 40°,60°	R,ir	FeO	100	55		Lugeor	,	Cŀ	2 } 3	2	3	Ω,
29.00	28.85			10	ì	40°,60°	R,ir	FeO	100	31				CN	3	3	4	2
30,00	29:50			8	MW F	40°	R,ir	calc	100	32				CH	2	2	3	3
ABBRE\	hanical E		지. sh,SW-Slightly Weathered,MW-Moder L-Coreloss, Pl-Planar, Sm-Smooth, f		gh, Ir-ler	egular,Fe	O-Iron	Oxide, C	I-Clay,	SI-SI	lt, calc-calcic				4		• • •	
SRC Lat Drilled b		miishir	ia/U.B. Chhetri Logged by: S	3.Shre		d:2061,1 Re		Co by: J. M.	-		52.01.31							1

			BORI	EΗ	OLI	E LO	G						(SHE	EΥ	4/15		
DRILL F	IOLE N	O.: B-	9	LOC	ATION	: Dam /	xis (L	/B)				······································			52-1	Mass		l
m	m, rn			ε		Discon Characte			% ^	%	Core Rec.	s)	sts	C	lassii	licatio	n	
Depth, 1	Run Depth,	5	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	infiling materials	Яесоvегу	RQD %	02 04 08 05 05 05 05 05 05 05 05 05 05 05 05 05	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness	Joint spacing	
	A0 95		Dolomite with quartz vein Light grey, fine grained, mod. hard, calcite leached, perforated and cracked.											СН	2	2 ~ 3	3	
31.00	30.75				sw		R,ir		100	37				СМ	3	3	4	3
32.00	31,15		In several runs low core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in highly weathered section, fractured zones and closely spaced joints.	5	F-SW	40°,60°	R,ir	calc	100	81		Value: 28.0		В	1	2	2	3
33,00	92.76~		Mechanical breaks are observed from 30.75 m to 31.00 m 30.10 m to 30.20 m	13	F-SW	40°	A,ir	calc	100	12		Lugeon Val						3
34.00	32.55 34.40		35.20 m to 35.30 m 37.15 m to 37.35 m 37.55 m to 37.75 m 35.70 m to 35.90 m	8	F-SW	50°,70°	R,ir	calc	100	45				СН	2	2 ≀ 3	3	3
35.00	35,20		Coreloss is observed from The actual depth of lost zones could not be traced. Numerous perforations	7	F-SW	40°,50°	R,ir	calc	100	25								3
38.00	35,90		Numerous perforatons and cracks on the surface	14	F-SW	40°	A,ir	calc si	71	28				СМ	2 2 3	з	3 ~ 4	3
37.00			Numerous perforations on the surface of the cores	8	F-SW	50°,60°	R,ir	FeO	86	0		18.0				2		3
	27.25			16	F-SW	40°	R	calc	100	0		eon Value		СН	2	3	3	3
38.00	37.90 - -		Numerous perforations on the surface of the cores	11	sw	40°,60°	A,ir	calc si	100	48		Pinge						ľ
39.00	08.95		Numerous cracks on the surface of the cores	11	sw	40°	R,ir	calc FeO	100	41								
40.00	39,80															<u> </u>	<u></u>	
			sh,SW-Silghtly Weathered,MW-Moder CL-Coreloss, PI-Planar, Sm-Smooth, F															
SRC Lat			na/U.B. Chhetri Logged by: S			d:2061.11		Co by: J. M.			32,01.31							1

DRILL H	E	J., D-				Discon Charact	tinuity		%		Core	⊒≧	(S)	its	Ç	lassi	Mass licatio
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	infiling materials	Recovery	RQD %	8 8 8 B	100 MILL	(Lugeons)	Other tests	Classification	Weathering	Hardness
		<i>777</i>	Dolomite with quartz vein	9	SW		R,ir	calc	100	61							
			Light grey, fine grained, mod.					FeO				≡	1		СН	2	2
	40.45		hard, calcite leached, perforated and cracked.	13	SW	40°,50°	R,ir	calc	100	50			ŀ		``'	-	-
41.00			and cracked.	13	0,,	,50	, ,,	FeO		-		-					
41.00	41.15		In several runs low core														
		888	recovery is obtained and cores														
		888	are broken into small fragments	9	sw	40°-60°	R	calc	100	50					В	2	2
		822	due to mechanical grinding with					FeO					္ဂ		1		
42.00	42.00	<i>E</i>	in highly weathered section,										સં		-	-	-
			fractured zones and closely	>20	SW		R	[50	0			Lugeon Value		См	2	3
			spaced joints.	>20	sw				100	0		Щ	্র ∣	l	0	3	J
	42:50		The actual depth of lost zones	>20	3"				"	ľ		, i	2		_		
43.00	42,70		could not be traced because	>20	sw	40°,50°	R	calc	50	0			9	ł		\geq	\leq
		XXX	of its broken nature.		ļ			FeQ.		l		H	ng				١. ١
	43,50											•			СМ	3	3
		XXX	Mechanical breaks are						١	١.							
		XXX	observed from	>20	F-SW			calc	29	0						>	K
44.00			42.00 m to 42.25 m 42.50 m to 42.60 m	1												Ĺ	1
	44.1E		43.10 m to 43.50 m			1				ļ				ı		3	3
			44,10 m to 44.35 m	>20	F	1			23	0		1 [Λ	
			44,85 m to 45.00 m			l.			1							$ \setminus$	
45.00	45.00		46.10 m to 46.40 m								昌日			ă		'	ΝX
			47.30 m to 48.05 m						l								ΙXΙ
			49.25 m to 49.50 m	>20	F		1	calc	27	0							V $\$
		XXX			1					1						1/	11
46.00		XXX	Coreloss is observed from	1										1		V	
46.00		1	42.25 m to 43.00 m				1					11				2	3
-			42.70 m to 43.10 m						1						CM	1 `	₹
	48,50	}	43.50 m to 44.10 m						1		IT!		_		-	13	4.
			44,35 m to 44.85 m			.]	_						25.0			$ \setminus $	
47.00		XXX	45.00 m to 46.10 m	>20	F-SW	′ I	R		10	0		1 1				`	1 /
		XX	46.50 m to 47.90 m 48.05 m to 49.25 m			1	1		1				Ee		1		IXI
		1	48.05 m to 49.25 m 49.50 m to 50.00 m		1			1	1				Lugeon Value			1	1 I
		XX		1									Ē			V	
45.00			1			1	1						<u> 1</u> 60		CN	1 3	3
	48.05	1	1					1					5			K	
			3		_		_	1		1.			4			\	√
ļ				>20	F		R	1	17	0							M
	ł		3	1		1			1						1		YY
49.00			3						1	1				Ĭ		$\mathbb{I}/$	
 			8		1			1						-	CN	/ 3	3
	49.50	188	3				1					[1	00	K	7
]		9	>20	F		R		10	0						1	➣
50.00	<u>L</u> .	XX	9				<u> </u>		1			┵		ــــــــــــــــــــــــــــــــــــــ			1
ABBREV	IATIONS	:F-Fre	h,SW-Slightly Weathered,MW-Mode	rately \	Veather	red,HW-H	ighly W	eathered	I,CW-C	omp	letely Weather	red					

ILL HOLE	NO.: B-	9	LOC	ATION	: Dam A	xis (L	/B)			·				,	,	A	.,
E É			Ę		Discont Characte			۸%	%	Core	-		oility ns)	sts	c	lassi	Mass ication
Depth, m Run Depth,	Log	Description of Rock/Soll	Joints/m	Weathering	Orlentation	Roughness	Infliing materials	Recovery %	ROD 9	RQE RQE	T.**	100	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness Joint spacing
		Dolomite with quartz vein Light grey, fine grained, mod. hard.		-					· · · · ·								\langle
51.	<u>05</u>	In several runs low core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in highly weathered section, fractured zones and closely	>20	F-SW	- I - I - I - I - I - I - I - I - I - I		FeO	10	0				le 15.0		СМ	2~	3 4
52.56		spaced joints. The actual depth of lost zones could not be traced because of its broken nature. Mechanical breaks are observed from	>20	Ľ	1. A. ALLANDON TOTAL TOT			22	0				Lugeon Value		CM.	3	3 4
54,10		50.85 m to 51.05 m 52.40 m to 52.55 m 53.75 m to 54.10 m 55.55 m to 55.60 m 56.80 m to 56.95 m 58.25 m to 58.45 m 58.65 m to 58.82 m	>20	F	ALE-MANY PARTY TO THE TEXT OF			3	0						СМ	2~3	3 4
55.64	2	58.90 m to 60.00 m Coreloss is observed from 50.00 m to 50.85 m 51.05 m to 52.40 m 52.55 m to 53.75 m	>20	Į.				11	0				0		СМ	3	3
7.00 SE.00		55.60 m to 56.80 m 56.95 m to 58.25 m		F-SW			FeO calc, cl	23	0				Lugeon Value 14.0			3	3
58.4 58.6 9.00 38.9			20	F-SW F	40°,60°	R,pl R,ir pl	calc,cl FeO FeO	100 100	0 0						СМ	2 2 3	3
59.6 59.6 0.00 59.8	• (X) 5 (X)	sh,SW-Slightly Weathered,MW-Moder	20 20	F-SW F-SW	40° 40°	R,ir R,ir pl	calc calc	100 100	0	7777	-						

			BOR	EH	OLI	E LO	G						,	SHE	ET	7/15	
RILL	IOLE N	O.: B-9	9	LOC	ATION	: Dam /	Axis (L,	/B)			p.,,,	·	,		- 4		
	-					Discon					Core	_				Mas: Icatio	
ε	h, m			٤		Charact	eristics		Recovery %	%	Rec.	Permeability (Lugeons)	Other tests	5	<u>.</u>		Ē
Depth,	Run Depth,	g.	Description of Rock/Soil	Joints/m	βu	5	382	<u></u>	S Ve	ROD	RQD	ermeabilit (Lugeons)	ert	cati	Weathering	Hardness	bac
Det	E	-		3	her	atat	art.	Infilling materials	ě	æ	ا ا ا ا ا ا	들크	ä	ls!	돭	ğ	2
	Œ				Weathering	Orlentation	Roughness	E E	**		5 8 8 5	ш.	-	Classification	×	Ĭ	Joint spacing
	60.20	KXX	Dolomite with quartz vein	20	F-SW		R,ir	cl	100	34				-	l	_	******
	60.40		Light grey, fine grained, medium			40°,20°	R,ir	FeO	100	0				СН	2	2	3
	***************************************		hard to hard.				pi	calc	l					١			
														СМ	2	3	4
61.00					F-SW	40°	sm-R	FeO	35	0				Г			$\overline{/}$
		 	In several runs low core recovery is obtained and cores	>20	P-574	40	SIR-A	calc,cl	33	Ü		1	ļ	1)	\searrow	
		 	are broken into small fragments				P.	04.0,01									
	61,70-	<i>}</i>	due to mechanical grinding with	>20	F-SW		R	cl	100	0		12.0			_		
62.00	61.85	}	in highly weathered section,						- 1								
	62.10	}	fractured zones and closely									<u> </u>		CM	5	3	4
		 	spaced joints.	>20	F-SW		R	ci i	100	0		Value		\vdash			$\overline{}$
		 	<u> </u>									1 >				\bowtie	
		XXX	The actual depth of lost zones									ğ	1	<u></u>	_		\geq
62.00	63,10	}	could not be traced because of its broken nature.	>20	F-SW	40°	Rir		33	0		Lugeon	ļ	1			
	63.26	 	or as broken hardre.	20	F-SW	40°	R,ir	i i	100	0		1 1				2	3
		XXX	Mechanical breaks are	16	F	40°,50°	R,ir	cl	100	0		3			2		ł
	63.65	}	observed from				'					3				3	4
64.00	1	XXX	60.55 m to 60.85 m	15	F	50°,70°	R,ir	calc	100	0		1					
	64,05	*	61.70 m to 62.00 m	1			pl	1 .				3		1			
	1	XXX	62.10 m to 62.35 m	>20	F		R,ir	calc	100	0		=					
	64.45		62.85 m to 63.10 m		F	60°	R,ir	calc	75	0			1	ļ		1	
	64,85		64.05 m to 64.45 m 64.55 m to 64.75 m	>20	+	00	, ri,ir	Calc	13	ľ		L	J				
65.00	54.85		165,60 m to 65.85 m	1													
	-		66.00 m to 66.60 m	>20	F			1	25	0							
	1		67.00 m to 67.10 m			1	1								2	1	
			69.30 m to 69.43 m				l *						1	CM	1 .	3	4
66,00	65.85	1000	69.75 m to 70.00 m		Į.							3			3		
]		a de la composição de l	19	F	40°	R,ir	cl	100	20							
		1			_ ا						au a	3	1		1	1	
	66.60	!	Coreloss is observed from 60.85 m to 61.70 m	>20	F		1			1		3					ĺ
	4		62.35 m to 62.85 m	13	F	80°	R,ir	calc	100			3			ļ		
67.00	-		64.75 m to 65.60 m	'*	1	00	1 1,1,11	00.10		ľ				-	-	╄	ļ
	67,25	XXX	66.60 m to 67.00 m														
	1 5		8	12	F	60°,75°	R,ir	calc	47	0							
	1	1888	8		1			FeO	ļ								
68.00	68,00		8					1				_	1				
]		8	ļ			<u>.</u> .	Ι	1	١		3			, ,		١,
	4	KXX	8	17	F	50°,70	R,ir	calc,cl	100	31		∄		Cŀ	1 2	2	3
	4	XX	8			40°	1	FeO				∄					
60.55		<i>\\\\\</i>	8	18	F	40°-60	R,ir	calc	100	13		∄					
69.00	68.85		8	'	"	10 -00	'''	FeO		'3		∄			1		1
	69:30	XX	8	>20	F	75°	R,ir	cl	100	0	4	₫		-	+	+	┼
	89.50	-877	8								7/2	=	1			2	
	7	<i>YY</i>	\$I	>20) F	50°	R,ir	Feo,ci	100	17				CI	1 2		4
70.00	1	XX	<u> </u>	Ш			<u> </u>		<u> </u>		<u> </u>	1		1		3	<u></u>
			sh,SW-Slightly Weathered,MW-Mode														
			CL-Coreloss, Pl-Planar, Sm-Smooth,														
	b, NEA					d:2061.1					62.01.31						
			na/U.B. Chhetri Logged by: 5	Shree	etha	Re	viewed	by: J. M.	Tamr	akar							

			BOR	ЕН	OL	E LC)G						SHE	ЕТ	8/15	
RILL !	OLE N	O.: B-	9	LOC	ATION	l: Dam	Axis (L	/B)								
E	E, E			Ε		Discor Charact	•	3	% %		Core	sts		lass	Mass fication	
Depth,	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	Infiling materials	Recovery %	# ddb	20 40 40 40 House 100 100 Permeability	Other tests	Classification	Weathering	Hardness	Joint spacing
	70.10		Dolomite with quartz vein									十	\vdash			目
	70:50		Light grey, fine grained, medium hard to hard	12	F	60°	FI,ir	FeO	100	50			Сн	2	2	3
	70.50		TRACE (O FILE)	18	F	70°	Fl,ir	FeO	100	25				-	-	Ĭ
71.00																Į
	71,15		In several runs low core										\vdash			eg
		XXX	recovery is obtained and cores are broken into small fragments	>20	F		R,ir		23	0			`			
			due to mechanical grinding with		•		11,"			ľ					M	
72,00		<i>}</i>	in highly weathered section,										\angle			\geq
			fractured zones and closely										.		_	
	72,25		spaced joints.	1									CM	2~3	3	4
		XXX	The actual depth of lost zones	>20	F				27	0		1				/1
73.00			could not be traced because	-	,					ľ				\	\ <i>Y</i>	1
		XXX	of its broken nature.												IXL	- 1
	72,25	}		١	_						計		1	١.	VX	
	-	BXX	Mechanical breaks are observed from	>20	F				15	0				1/	`	\
74.00	74,00		70.70 m to 71.15 m										См	2~3	-3-	~7
7.00	14.00		72.00 m to 72.55 m										-	$\overline{}$		$\overline{}$
	1		73.90 m to 74.00 m	>20	F			FeO,cl	20	0					M	
			74.80 m to 76.00 m											/	Y	
			76.25 m to 76.70 m											K		\rightarrow
75.00	75.00		46.10 m to 46.40 m 76.65 m to 76.75 m	>20	F	75°	 R,ir	cate,cl	100	٥		1			1 1	ł
		}	78.45 m to 78.70 m			,,,	'',''	00.0,0.	100	ľ						ı
	75.50		79.00 m to 79.25 m											2		ı
	75.85		79.65 m to 80.00 m	>20	F			FeO	100	0			CM	1 .	3	4
76,00]	>20	F	75°	R,ir	FeO	100	0				3		
	76.25	KXX	Coreloss is observed from	>20	F	73	17,21	FEO	100	0						
	76.50		71.15 m to 72.00 m		-						/////		-	├-	\vdash	-
		XXX	72.55 m to 73.35 m						ļ							
77.00	1	 	73.35 m to 73.90 m	13	F			FeO	100	44		4				
	-		74.00 m to 74.80 m 78.00 m to 78.45 m							i			CH	2	2	3
	1		78.70 m to 79.00 m													ļ
	77.65		79.25 m to 79.65 m								0					-
78.00	78.00		1	>20	F	75°			100	0	50		L]
	<u> </u>				_				١	١.	Value				W	
				>20	F			cl	36	0			CH	2~:	3	3~4
	78.70	XXX]	
79.00	1	 		>20	۳		R,ir	cl	45	0	Lugeon	-			$\geq $	
	L		3							1		1	СМ	2~:	3	3~4
	79.25	K	3							1.		ĺ				
	1		3	>20	F				60	0			<u> </u>		1	\geq
80.00	1											╝	CN	2~:	3 3	3~4
	IATIONS	F-Fres	s h,SW-Silghtly Weathered,MW-Moder	ately W	eathere	d,HW-Hi	ghly We	athered.	CW-C	omple	itely Weathered					-
			L-Coreloss, Pi-Planar, Sm-Smooth, F													
C Lab						1:2061.11			_		52.01.31					
~~~~~	····	nilshin	a/U.B. Chhetrl Logged by: S	Shrest				y: J. M.			······································					

Characteristics	DRILL H	OLE N	0.: B-	9	LOC	ATION	Dam A		/B)			1_				j R	ock M
S	ε	Ę			Ę	(			:		*	1		bility ins)	ests		
1	Depth,	Run Dept	Log	Description of Rock/Soll	Joints	Weathering	Orlentation	Roughness	Infiling materials	Recove	ROD		80 120 120 130 130 130 130 130 130 130 130 130 13	Permea (Luged	Other t	Classificat	Weathering
11   F   70°   Calc   50   0     P   N   N   N   N   N   N   N   N			177	Dolomite with quartz vein													
In several runs low core recovery is obtained and cores are broken into small fragments due to mechanical grinding with in lightly weathered section, fractured zones and closely spaced joints.    32.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.00   182.		80.25					1							12		СН	2
S2.00   In highly weathered section, tractured zones and closely spaced joints.   System of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of th			BXX	hard to hard	11	F	70°			60	0		1	ا يو ا			丄
S2.00   In highly weathered section, tractured zones and closely spaced joints.   System of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of th									FeU					큚			N
S2.00   In highly weathered section, tractured zones and closely spaced joints.   System of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of th	81.00	81.00		In coveral runs low core			1							]			ነ
S2.00   In highly weathered section, tractured zones and closely spaced joints.   System of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of th				1	>20	sw-	40°		cl	30	0			ğ		1 1	J
S2.00   In highly weathered section, tractured zones and closely spaced joints.   System of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of th				4 ·	1	MW								ğ			/
### Tractured zones and closely spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.  ### Spaced joints.				due to mechanical grinding with										=		H	
Spaced joints.   13   SW- 50°, 70°   R, ir   FeO, cl   100   20   CH   2	82.00	82,00												<u> </u>			
Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.   Sp.				1				<b>-</b>	c. 0 . I	400							,
## The actual depth of lost zones could not be traced because of its broken nature.  ## Sa.60				spaced joints.	13		50°,70°	₩,ir	FeU,ci	100	20					[~"	۴
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thick clay of brown colour is deposited on the fractured and joint surface of dolomite.    88.00	87.00	86.85	<b>X</b>	88.25 m to 89.80 m				1					1				/
thick clay of brown colour is deposited on the fractured and joint surface of dolomite.  Similarly between 84.20 m and 85.80; 86.20 m and 86.85 m cracks are developed on the surface of core and brown clay deposited on them and also on joint surfaces.  Similarly between 84.20 m and 85.85 m cracks are developed on the surface of core and brown clay deposited on them and also on joint surfaces.  Below Bo.00 90.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00 go.00		1	<b>X</b>	Rehveen 81 00 m and 93 00 m	1								<b>i</b> l				`
deposited on the fractured and joint surface of dolomite.  Similarly between 84.20 m and 85.80; 86.20 m and 86.85 m cracks are developed on the surface of core and brown clay deposited on them and also on joint surfaces.  Po.00 90.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00	<u> </u>	1		λl " · · · · · · · · · · · · · · · · · ·	>20	F-SW				62	0		<b>1</b>				
38.00    joint surface of dolomite.   Similarly between 84.20 m and 85.80; 86.20 m and 86.85 m   >20 F-SW 50° R, pl   calc 27 0   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3   CM 3		1				"	1			1			1				
88.25 Similarly between 84.20 m and 85.80; 86.20 m and 86.85 m	88.00	]				1			1	1			∄			1	
85.80; 86.20 m and 86.85 m cracks are developed on the surface of core and brown clay deposited on them and also on joint surfaces.  90.00 90.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00 Po.00				<b>1</b>												СМ	
cracks are developed on the surface of core and brown clay deposited on them and also on joint surfaces.  90.00 90.00 Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered		88.25	788	/I			F70	p -1	colo	1	1						
B9.00 surface of core and brown clay deposited on them and also on joint surfaces.  90.00 90.00 CM 3  ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered		4		<i>a</i>	>20	r-5W	50*	rt, pi		27	۱ '						/
clay deposited on them and also on joint surfaces.  90.00 90.00 CM 3  ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered	90.00	4				1				1				1			
on joint surfaces.  90.00 90.00 CM 3  ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered	69.00	1				[									Ì		
90.00 90.00 CM 3  ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered	<b>!</b>	1						1					11				/
ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered		1		<b>A</b>		1	[		1	1							/
ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered		]	<b> </b>	$\mathbb{R}$												CIA	/_
ABBREVIATIONS:F-Fresh,SW-Slightly Weathered,MW-Moderately Weathered,HW-Highly Weathered,CW-Completely Weathered				4	1		<u> </u>		l						L	LOM	
	ABBRE	VIATION	S:F-Fre	sh,SW-Silghtly Weathered,MW-Moder	ately '	Weather	ed,HW-H	ighly W	eathered	,cw-c	compl	ietely Weat	hered	l			

			BORI	ЕН	OLI	E LO	G						5	SHE	ET 10	/15	
DRILL H	IOLE N	O.; B-9	9	LOC	ATION	: Dam A	Axis (L	/B)									
	_					Discon	tinuity				Core				Rock M lassific		
£	Ę.			E		Charact	eristics	3	y %	vo.	Rec.	Permeability (Lugeons)	sts	<del>-</del>			1
Depth, m	Run Depth,	3	Description of Rock/Soll	Joints/m	P	5	87 80	- St	Recovery %	RQD %	RQD //////	ermeabilit (Lugeons)	Other tests	atic	Weathering	Joint spacing	
Ďe	5	-		ş	heri	ıtat(	hne	Infilling materials	ě	Œ		erm (Lug	Stre	sific	th at	s dis	
	Œ.				Weathering	Orientation	Roughness	in the	<u>.</u>		8 8 8 5	<u> </u>	_	Classification	° 2   3   3	i i	
		<b>XXX</b>	Dolomite with quartz vein	-			************					-			$ egthinspace{-1mm} olimits for the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the context of the$	17	1
			Light grey, fine grained, medium												D	₫	
			hard to hard	>20	F-SW			FeO,cl	38	0					Χ		
91,00				>20	F-344			Fe0,0	30	U				$\vdash$		-	91
			In several runs low core											СМ	2 :	3 4	
	91.30		recovery is obtained and cores					li						-	egthanking	+	1
			are broken into small fragments	>20	F-SW			FeO,cl	39	0					$\triangleright$	$ \checkmark$	
92.00			due to mechanical grinding with in highly weathered section,											ļļ	4	$\rightarrow$	92
32.00	92.20	KXX	fractured zones and closely											СМ	2 :	3 3~4	<u> </u>
		<b> </b>	spaced joints.	>20	F-SW	60°	R, pl	¢l	50	0				П	$\supset$	$ \leftarrow $	1
			mer a la allata alta della													3 3	Ĭ
93.00	92.80		The actual depth of lost zones could not be traced because											СМ	2 :	3 3	93
93.00			of its broken nature.									1					ľ
				>20	F-SW		R, ir	FeO,cl	54	0						1	1
			Mechanical breaks are									l				$\mathcal{N}$	
			observed from							İ							94
94.00			90.80 m to 91.30 m 91.85 m to 92.20 m											СМ	2	3 4	194
	94.25		92.50 m to 92.80 m							ŀ						<u> </u>	,
			94.00 m to 94.35 m												≯	$\prec$	
			94.70 m to 94.95 m	>20	F-SW				58	0				СМ	2	3 4	1,-
95.00	91.95	<b>K</b> XX	95.25 m to 95.75 m 96.00 m to 96.10 m											UM.	*	-	95
			96.20 m to 96.55 m					ci	56	0				$\vdash$			4
			97.25 m to 97.55 m		İ									СМ	2	3 4	
	95.75		98.20 m to 98.70 m							١					<del>  _   -</del>		1
96.00			99.75 m - 100.00 m	17	F-SW	70°	R,ir	calc,cl	100	22		1		СН	2	2 3	96
<b></b>	96.20	KXX	Coreloss is observed from	>20	F-SW	1					(//)			См	2	3 4	1
		<b>XXX</b>	90.00 m to 90.80 m									=		_	<del>                                     </del>		-
		<b>XXX</b>	91.30 m to 91.85 m	>20	F-SW	60°-80°	R, pi	cl	100	0		3		СН	2	2 3	L
97:00~~	<del>50.90</del>	<b>1</b> 2223	92.20 m to 92.50 m									1			$\forall$		97
			92.80 m to 94.00 m 94.35 m to 94.70 m	>20	F-SW		R, pl	cl	46	0		1			1	$\rightarrow$	4
	97,56	<b>K</b>	94.95 m to 95.25 m	1			, [	"	l ~	ľ				СМ	2	3 3	,
		<b>XXX</b>	96.90 m to 97.25 m	1							目日日				$  \downarrow  $	$\mathcal{N}$	1
98.00		<b>XXX</b>	97.55 m to 98.20 m	>20	F-SW			cl	23	0			l		1/	$^{\sim}$	98
<b> </b>	98.40	<b>XXX</b>	98.70 m to 98.95 m 99.00 m to 99.10 m	1		}						7.0		$\vdash$	+		×
	30.40	<b>1</b>	99.60 m = 99.75 m	>20	F-SW				100	0		_		СМ	2	3 3~.	4
	98,70	<b> </b>					[			'		Lugeon Value		$\vdash$		_	-
99.00	99,00	<b>X</b>	Between 99.00 m and 99.35 m		F-SW	2	l _		17	0		S		$\vdash$	H	1	99
<b></b>		<b>XXX</b>	cracks are developed and	17	F-SW	40°	R, pl	cl	71	0		Ę	1	СМ	2	3 3	
	99.65 99.60	<b> </b>	brown colour clayey materials deposited on these cracks.	>20	F-SW	40°,60°	į		100	0		) Ge	l	OM	-	" ] 3	Į.
		<b>1</b> 3333		>20	1		R, ir		62	ő		E	I			=	7
100.00	100.00	KXX				<u> </u>	<u> </u>	1					]	CM	2	3 3	100
			h,SW-Slightly Weathered,MW-Modera										-				
MB-Mech	anical B	reak, C	L-Coreloss, PI-Planar, Sm-Smooth, R	-Roug		·		Oxide, Ci	-Clay,	SI-SI	t, calc-calcic		,				_
SRC Lab						1;2061,11					2.01.31	<u></u>					4
Drilled by	/;S,R. Ti	miishin	a/U.B. Chhetri Logged by: S	.Shres	tha	Rev	rlewed i	by: J. M.	Tamra	akar							

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RILL H	OLE N	O.: B-	9	LOC	ATION	: Dam /	Axis (L	/B)	wowowszes	-		***********		·			A	· · · · · · · · · · · · · · · · · · ·	_
						Discon		1			Core						Rock I Iassifi	wass cation	l
E	Ę.			E	1	Charact	eristics	·	۶ /	*	Rec.			Permeability (Lugeons)	Other tests	8	<u></u>	" E	1
Depth, m	Run Depth,	3	Description of Rock/Soll	Joints/m	Ş.	5	SS	_ = =	Recovery	RQD %	RQD			ermeabilit (Lugeons)	) ja	cat	Weathering	Hardness int spacir	ı
Dep	Ω 5	-	-	흑	her	ita ti	FT.	infilling materials	Se l	č				E el	Ë.	Siff	at l	rt St	1
	쮼				Weathering	Orientation	Roughness	Inf mat	ш.		성 육	န	8 5	D.	Ĭ	Classification	\$	Hardness Joint spacing	١
	***************************************	2777	7-1	Ļ							╬	┿┥		-		_	~+		┥
			Dolomite with quartz veln Light grey, fine grained, mod.	>20	F-SW		B,ir		23	0							$\uparrow$		ı
			hard, calcite leached, perforated	-			,					1				li	$\mathcal{A}$		J
			and cracked.											7.0					Ì
101,00	100.85						l	ا ـ ـ ا						-1		СМ	2	3 3~	4
		KXX	In several runs low core	>20	F-SW		R, ir	FeO	100	0				ugeon Value			$\leftarrow$		4
	101.25	KXX	recovery is obtained and cores are broken into small fragments	-20	F-SW	70°	R, pl	cl	47	0				S			$\rightarrow$	$\prec \subset$	
		<b>XXX</b>	due to mechanical grinding with	-2.0		,,	ir	1 ~ 1	.,					Ĕ	Į				1
102.00	102.00		in highly weathered section,											l ğ		CM	2	3 4	.]
		<b>XXX</b>	fractured zones and closely	>20	F-SW	40°	R, pl	calc	37	0				Į	Í		$\rightarrow$	$\checkmark$	
		<b> </b>	spaced joints.	1			ir											$\bigcirc$	
		BXX	was a sakaal daaska affaas aanaa											ı		СМ	2	3 4	1
103.00	102,80		The actual depth of lost zones could not be traced because	>20	F-SW		ĺ	FeO,cl	100	0		ш		3				*  '	۱
103.00	103.00		of its broken nature.		,					1			T	1	1		N		1
				>20	F-SW			FeO,cl	40	0								$^{\sim}$	J
			Mechanical breaks are		·			1								^14	2	3 4	1
	103.76-		observed from							ļ	7///			∄		CM	<del>  ^</del> -		┪
104.00	l		100.65 m to 100.80 m	13	ECM	50°,75°	R,	cl	100	33				=	1	СН	2	2 3	ď
	ł		100.85 m to 101.25 m 101.60 m to 102.00 m	13	1244	30 ,73	iг	C	,00	00				3					
	104,50		102.50 m to 103.00 m	İ			, "		1			7		4			$\leftarrow$		$\dashv$
	1		103.45 m to 103.75 m	>20	F-SW			C}	37	0								$\times \ell$	1
105.00	]		105.00 m to 105.30 m							1				1	1		4	_}	ᆚ
			106.05 m to 106.15 m	ļ	i				ļ		122100000					CL	3	3 4~	5
	106.30	<b>1</b> 222	107.55 m to 107.65 m	- 20	F-SW						訂						N		1
	1		108.90 m to 109.15 m 109.70 m to 110.00 m	>20	Jr-5W				12	0	目							X	ı
106.00	1	3	7 103.70 311 10 1 10.30 111		1					1	目			6.0					
	106.15													单	ŀ		=	=	킈
	]		8								目			<del></del>			$  \setminus  $	- 1/	′
	-		Coreloss is observed from		E 0/4/			FeO,cl	7	0	目			2	1		}	$\langle X \rangle$	
407.00	1		100.00 m to 100.65 m 101.25 m to 101.60 m	>20	F-SW			FeO,G	Ϊ΄	1 "				8				XI	1
107,00	1		102.00 m to 102.50 m		1						胃			Lugeon Value	H		1 1		ļ
	1		103.00 m to 103.45 m				l.		1					-			/	\	
	]	<b>XXX</b>	104.50 m to 105.00 m			1					Ħ					$\vdash$			~
	107.65	<b>*</b>	105.30 m to 106.05 m							1				1	1		$\setminus$		
108,00	4	<i>XX</i>	106.15 m to 107.55 m		F-SW	40°		ci	200	١,							N	$\setminus V$	1
	4		107.65 m to 108.90 m 109.15 m - 109.70 m	>20	15-244	40		1 "	29	ľ								X	
·····	1		7.00.10 10 . 100.10 10			1		1											
	1		8			1				1							/	\	\
109.00	109.00	XX.	8						Į.			Щ_	Ш	-}	4		<u>f_</u>		ب
	100,16	-{}	8	>20	F-SW	1			100	0		31	П	7		_Ch	K		>
	4			1.00	E 014			E-0 -	ا ء۔	0		1						$\bowtie$	
	-		<b>8</b>	>20	F-SW		1	FeO,c	35	"						1	/		_
110,00	110.00		8				1									C۱	1 2	3 .	4
			-4 sh,SW-Slightly Weathered,MW-Mode	rately V	Veather	ed,HW-H	ighly W	eathered	,CW-C	ompl	etely \	Veat	hered						
			CL-Coreloss, Pi-Planar, Sm-Smooth,																
	, NEA	,				d:2061.1					62.01.								_
	····		na/U.B. Chhetri Logged by:					by: J. M.	**										

	OLE N				MII.//	; Dam A	WIS {L	(Q)									1
E			,			Discont					Core					ock Mas	
	ŧ, E	_		u/	1	Characte	•		۳. % انع	%	Rec.	,,,,,,,	bility	tests	-	T	
Depth, m	Run Depth,	Foot	Description of Rock/Soil	Joints/m	Weathering	Orlentation	Roughness	Infliling materials	Весочету %	RQD %	02 04 09 RQD	8 00	Permeability (Lugeons)	Other tests	Classification	Weathering Hardness	Joint spacing
		<i>Y</i>	Dolomite with quartz vein													$\searrow$	
			Light grey, fine grained, medium	>20	F-SW			c1	42	0					СМ	2 3	$\stackrel{\longrightarrow}{4}$
	110.60	KXX	hard to hard						- 1							JĬ	<del>ー</del>
111.00				>20	F-SW			FeO,cl	33	0					1 1	$\sim$	
111.00			in several runs low core					1						ļ		4	
			recovery is obtained and cores								目目			-	CL	2 3	4~5
	111.50		are broken into small fragments			- 1									<b> </b>	$\prec$	
			due to mechanical grinding with	>20	F-SW	-	R	cl	54	0		1	۱_			<del>-</del>	
112,00			in highly weathered section,				ìľ	- 1					10.0		CM	2 3	4
	112,15-	<i>YY</i>	fractured zones and closely											ı		$\forall$	
		<i>}</i>	spaced joints.		~ 014/			ارد داد دا					Lugeon Value		1 1	_/>	
		<i>}</i>		>20	F-SW			calc,cl	43	0			ह	i	CL	2 3	4~5
		<i>}}</i>	The actual depth of lost zones could not be traced because										[			<del>.   `</del>	
113.00	112,85	KXXX	of its broken nature.	>20	F-SW			cl	27	0		11	ĝ	ı		$\rightarrow$	
	113.40	<b>XXX</b>	OF NO PROPERTY PARTOTO.	1				<b>V</b> .					ğ		-		
	113.40	<b>1</b> 222	Mechanical breaks are										1			J	
		<b>XXX</b>	observed from	>20	F-SW	1		cl	40	0				1	1 1	$\sim$	
114.00		<b>XXX</b>	110.40 m to 110.60 m										1	H		4	
		XXX	111.20 m to 111.50 m												СМ	2 3	4
	114.40	<b>1</b> 222	111.80 m to 112.15 m												-	<del></del>	<u> </u>
		KXX	112.15 m to 112.85 m							١.,			ŀ		1	$\downarrow$	
			113.25 m to 113.40 m	>20	F-SW				25	0	⊟·I					$\nearrow$	
115.00			114.00 m to 114.40 m	1											СМ	2 3	4
	115.20		115.00 m to 115.20 m 115.85 m to 116.30 m					1		1				1	<del>                                      </del>	<	🗁
		1	117.00 m to 119.20 m	>20	F	50°			41	0		11	1	1		$\rightarrow$	1
			119.40 m to 119.55 m		<u> </u>	"			''	-						/	
116,00	1			1								11					<del>                                     </del>
													1	1			4
	116:30	*///	Coreloss is observed from							1			=	1	СМ	2 3	_
			110.00 m to 110.40 m	17	F	50°	R,pi		100	57			3				3
	116.65		110.60 m to 111.20 m				L.,									$\rightarrow$	Ł
117.00			111.50 m to 111.80 m	>20	F	40°	R, pl	cl	36	0				1		$\overline{}$	<del> </del>
	117,20		112.15 m to 112.55 m		F	30°	- A	ام مام ما	100				al			. ]	
			112.85 m to 113.25 m	>20	٦	30	FI, pl	całc,cl	100	l۳			∄ .		СМ	2 3	4
	117.60	<b>*</b>	113.40 m to 114.00 m	>20	F	1		cl	100	0			3		0		1
118.00	118.00		115.20 m to 115.85 m	120	Ι'.			~	'''	1			∄ .				
138.00	118.20	TYYY	116.65 m to 117.00 m	>20	F			cl	100	0			∄	1			T
-	140.20	<b>*</b>	118.85 m to 119.40 m		l			-		1			3				
	1	1	119.55 m to 120.00 m	15	F	40°,50°	R, pl	caic,cl	100	18			∄		СН	2 2	3
	1	1	<b>A</b>				ir			1			∄				
119,00	118.85	- 77	\$									TT	7			abla	
	]	334	\$	>20	F			1	50	0							
		<i>XX</i>	\$						1						CL	2 3	┾
	119,55	-833	3								7///=1				CM	KT.	<u></u>
	<b></b>	-}}}	3	19	F	40°			40	33					-		1
120.00	<u></u>	KXX	XK		1	<u> </u>	L	ــــــــــــــــــــــــــــــــــــــ		1	<i>çııçı</i> □	4	<u> </u>		۰		<u> </u>
			sh,SW-Silghtly Weathered,MW-Mode														
B-Mec	hanical E	Break, C	L-Coreloss, Pl-Planar, Sm-Smooth,	R-Roug		egular,Fe d:2061.11		_			lit, calc-ca 62,01,31	ICIC					

	IOLE N	J.; D-	9		A1101	l: Dam / Discon Charact	tinuity		%		Core		<b>₽</b> (s	its	C	lassii	Hardness Hardness
Depth, m	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	infling materials	Recovery	ROD %	RQD RQD	90	Permeability (Lugeons)	Other tests	Classification	Weathering	Hardness
		<i>yyy</i>	Dolomite with quartz vein														
	120:30		Light grey, fine grained, medium	l	_										СМ	2	3 3
			hard to hard	>20	F	40°	R, ir	ci	100	0					CMI	_	3 1
	120.65			>20	f	40°	R, pl	cl	100	0							
121.00	121.00		In several runs low core	1/20	ļ '	10	11, 120	· ·									
			recovery is obtained and cores	1										ı	ļ	$\vdash$	$\vdash$
		<b>B</b>	are broken into small fragments		F	40°	R, ir	1	30	10			]				
		<b> </b>	due to mechanical grinding with		· .	1					川園		0			۱ ۱	$\mathbb{R}^{J}$
122.00	122.00	<b> </b>	in highly weathered section,	1					1				œ	l			X
		<b>XXX</b>	fractured zones and closely	1									후	ı			<b>1</b>
		<b>K</b> XX	spaced joints.	>20	F		R.		40	0			듄			/	
													>	ı			
	122,75		The actual depth of lost zones										Lugeon Value	ı	СМ	2	3
123.00			could not be traced because	>20	F	1			27	0		11	B				$\bowtie$
			of its broken nature.			ŀ	1						3				
	123:30	<b>K</b> XXX		1	_			1		۰							$\triangleright 4$
			Mechanical breaks are	>20	F	1	ļ		33	0					СМ	2	3
	123,75	<b>X</b> XX	observed from		F	-00	R		00				1	1	1		Ŭ
124.00	ł		120.30 m to 121.00 m	>20	-	50°	, n		33	ľ					1		
		XXX	121.10 m to 121.30 m	1											CM	2	3
	124.35	1	122.45 m to 122.45 m 123.15 m to 123.30 m	>20	F			1	5	o	T I						
	ł		123.60 m to 123.75 m	720	١'				ľ	"			1	1		_ ا	$\bowtie$
125.00	125,00	<b>B</b>	124.15 m to 124.35 m		1	1	1				<b>11</b>   1			ı		$\angle$	
123.00	125.00	<b>KXX</b>	125.60 m to 125.80 m				1		1								
			126.80 m to 127.00 m	>20	F				25	0						1	$\bowtie$
	1		127.90 m to 128.00 m	1										1	L		1
	125.80	<b>K</b>	128.30 m to 128.80 m			1			1			Ш			D	2	3~4
126.00		1882	129.40 m to 129.70 m			1						11	1		1	$\setminus$	
	1		1				1	1		1				1		1 `	١,
	1	<b>W</b>		>20	F			1	17	0	目			1	1		$\mathcal{N}$
	]	KXX	3				1				目目			İ		1/	1
	]	XX	Coreloss is observed from			1							1		<del> </del>	K_	
127.00	127,00	XXX	121.30 m to 122.45 m	1	1	1			1				1	1	CL	2	3~4
	1	<b>XXX</b>	122.75 m to 123.15 m						1	1.			1			1	1
		<b>K</b>	123.30 m to 123.60 m	>20	F			1	10	0							$\times$
	-	KXX.	123.75 m to 124.15 m	1		1					目					1	<i>Y</i> `
	1		124.35 m to 124.95 m		1	1			1		目	11			$\perp$	<u>/</u> _	1
128,00	128.00	-1333	125.00 m to 125.60 m						1	1	目目				F	<u> </u>	$\vdash$
	4	<b>B</b>	125.80 m to 126.80 m 127.00 m to 127.90 m	>20	F		1	1	62	0		╡┃				+-	$\uparrow \frown$
	-	<b>XXX</b>	128.00 m to 128.30 m	720	1 '			1	"	٦		∄			CN	1 2	3
	128.80	<b>XXX</b>	128.80 m to 129.40 m					1	1			₫		1	1		
129,00	,20.80	<b>*</b>	3	>20	F	50°	R.ir		25	0		T	9	7			1
125,00	1		8	1		1	1						alc				$\triangleright$
	1		8			1		1		1			, Š , Š , Š	?			1_
	129.60		8	1		1		1			<i>///</i>		⊒ã ^	-		1	1
	1	7///	8	18	F			1	100	25			Lugeon Value	1	CV	1 2	3
130.00	130,00	<b>XXX</b>	<u> </u>			<u> </u>		<u> </u>			Wh.		1_			<u> </u>	
ABBRE\	/IATIONS	S:F-Fre	sh,SW-Slightly Weathered,MW-Mode	rately \	Neathe	red,HW-H	ighty W	atherec	,cw-c	ompl	etely Weat	hered					

DRILL F	OLE N	O.: B-	9	LOC/	TION	l: Dam /	xis (L	/B)	<del></del>	**********	Y******		<del></del>		<del></del>	łock A	Mass
£	Ē			Ę.		Discon Characte		1	ى <b>ك</b> %	%	Core Rec.		ollity as	ests	CI	assific	catio
Depth, 1	Run Depth,	Log	Description of Rock/Soil	Joints/m	Weathering	Orientation	Roughness	infiling materials	Recovery	RQD %	RQD	8 8 5	Permeability	Other tests	Classification	Weathering	Hardness
		3333	Dolomite with quartz vein	+				*****			甘		1	***************************************		$ egthinspace{-1pt}$	
			Light grey, fine grained, medium	>20	F			cl	28	0						1	$\supseteq$
	130.70		hard to hard								Ш	,	1		СМ	<u>.</u>	3
131.00	130.70			>20	F	1			50	0						_	$\leq$
		<b>XXX</b>	In several runs low core												СМ	2	3
	131.30		recovery is obtained and cores		_	400 500	10 to			_			7.0			$\neg$	$\overline{\mathbf{A}}$
			are broken into small fragments due to mechanical grinding with	>20	F	40°,50°	R,ir		50	0			9		$\left  - \right $	$\overline{}$	
132,00	132.00		in highly weathered section,										Te /	H			
			fractured zones and closely	17	F	60°,50°	P, ir		100	22	<i>M</i> =		15		1	ļ	
		<b>XXX</b>	spaced joints.								<i>M</i> =		8	)	СМ	2	2
	132.45		The actual depth of lost zones	>20	F	40°,50°	R,ir		100	18			Lugeon Value		I CM	-	-
133.00	133.00		could not be traced because	120	•	70,00	11,0			'`			""	ĺ			
		<b>X</b> XX	of its broken nature.	1 1									1				_
				>20	F	60°,50°	P,ir		20	0						N	
		<b>XXX</b>	Mechanical breaks are											1			$\rtimes$
134.00	134.00		observed from 130,50 m to 130,70 m								目			_}		$\square$	
134.00	134,00		131.00 m to 131.30 m	>20	F				100	0							
			131.65 m to 131.80 m	1 1									≣ .		СМ	2	3
	134.50		132.70 m to 133.20 m		_	1		1		١.	HIT	$\Box$			-	$\vdash$	
135.00	135.00		134.00 m to 134.55 m 135.80 m to 136.00 m	>20	F				10	0						N	
135.00	135,00	<b>XX</b>	136.35 m to 136.50 m						1		自						V
			137.85 m to 138.00 m	>20	F			1	20	0						}	/
			139.40 m to 139.50 m											1			
400.00	424.00							l			目				СМ	2	3
136.00	136.00	<b>*</b>		>20	F	1		FeO,c	1 30	0			1				$\overline{\downarrow}$
l	1			1 1													
	136.50									ļ	TI.				EM	/	7
	407.00		Coreloss is observed from 130,00 m to 130,50 m			1			0	0						N	
137.00	137.00	***	130.70 m to 131.00 m						۱	ľ							V
	1		131.30 m to 131.65 m				l				<b>    </b>						/
	]		133.20 m to 134.00 m	>20	F		1		15	٥						A	
100.00	400.00		134.55 m to 135.00 m 135.00 m to 135.80 m						1		目目				CM	/_	-3
138.00	138.00	***	136.00 m to 136.35 m						1						Ţ	$\overline{}$	
	1	<b>***</b>	136.50 m to 137.00 m	>20	F		1	1	20	0							
		<i>***</i>	137.00 m to 137.85 m														M
L	1		138.00 m to 139.40 m 139.50 m to 140.00 m			1			1								Ν
139.00	1		100.00 111 10 140.00 111		1	1		1			目			1	1	1/	
	1	XX									目				<u> </u>	/_	
	139.50		<b>X</b>	1	_		-				罰				-ew	1	
1/2000	-		<b>X</b>	>20	F				10	0							$\geq$
140.00		×××	N CH CH-MAN Mach 4 MM 14-4-	roto!: 11	l Martha	- Nation	oble 91	i nathered	CW C	,o		sthere					
			sh,SW-Slightly Weathered,MW-Mode LL-Coreloss, PI-Planar, Sm-Smooth,										•				

14.00   147.55 m   147.55 m   147.50 m   147.55 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   148.50 m   1			_	BOR					<b>.</b>								ð	one.	11	J/ 13
Characteristics	RILL H	OLE N	O.: B-9	9	LOC	ATION	W(60-007)	************	R)		······	Core	******	**********	T-	1	1			
Dolomite with quartz veln Light groy, line grained, medium hard lo hard   1,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141,00   141	E	Ę			E	(				۸%	ж	_			1	ns)	ssts			
Light grey, fine grained, medium hard to hard hard to hard hard to hard hard to hard hard to hard hard to hard hard to hard are broken into small fragments due to mechanical grinding with in highly waterhered section, fractured zones and closely spaced joints.  The actual depth of lost zones could not be traced because of its broken nature.  Mechanical breaks are observed from 140,00 m to 140,00 m to 141,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00 m to 142,50 m 144,00	Depth,	Run Dept	Log	Description of Rock/Soll	Joints	Weathering	Orientation	Roughness	Infilling materials	Recover	ROD	П	m	8 5	Permea	(Lugeo	Other t	Classificat	Weatherin	Hardnes: Joint spaci
141.00   141.00   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   In several runs low core   I					- 20	E	***************************************				##044Jacksand		П						$\supset$	$ \leftarrow $
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18730   14730	141,00	141.00					Į		İ	1		昌							$\overline{}$	
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3-Mechanical Break, CL-Coreloss, Pl-Planar, Sm-Smooth, R-Rough, ir-irregular,FeO-iron Oxide, Cl-Clay, Sl-Silt, calc-calcic															đ					
IC Lab, NEA Started:2061.11.29 Completed:2062.01.31		_																		