

COLLIN COUNTY, TEXAS

ADDENDUM NO. ONE (1)

IFB NO. 2024-282

INVITATION FOR BID

FOR

CONSTRUCTION, EMERGENCY GENERATOR FUELING SYSTEM REPLACEMENT

- DATE: JUNE 4, 2024
- NOTICE TO ALL PROSPECTIVE BIDDERS:
- PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:
- CHANGE FROM:BID CLOSE DATE 6/13/2024 AT 2:00 PMCHANGE TO:BID CLOSE DATE 6/27/2024 AT 2:00 PM
- CHANGE: BID QUESTION CUT-OFF DATE FROM: 6/7/2024 AT 5:00 PM TO: 6/14/2024 AT 5:00 PM
- ADD: ADDITIONAL MANDADORY PRE-BID MEETING DATE & TIME 6/11/2024 AT 1:30 PM (Please note this is an additional opportunity for all vendors, but attendance is only mandatory for ONE of the three meetings)
- ADD DOCUMENT: PRE-BID MEETING ATTENDANCE RECORDS ATTACHMENT A 5/28/2024 & 5/30/2024 ATTENDANCE RECORDS
- ADD DOCUMENT: GEOTECH REPORT ATTACHMENT B
- ADD ATTRIBUTE: ATTRIBUTE NO. TWENTY-FOUR (24) ADDENDUM NO. ONE (1) ACKNOWLEDGEMENT

ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY, MICHELLE CHARNOSKI, NIGP-CPP, CPPB PURCHASING AGENT

/SLH

ATTACHMENT A



IFB # 2024-282 MANDATORY PRE-BID CONFERENCE SIGN IN SHEET

Project:	Construction, Emergency Generator Fueling System Replacement	Meeting Date:	May 28, 2024
Facilitator:	Susan Hayes	Place/Room:	Central Plant Conference Room

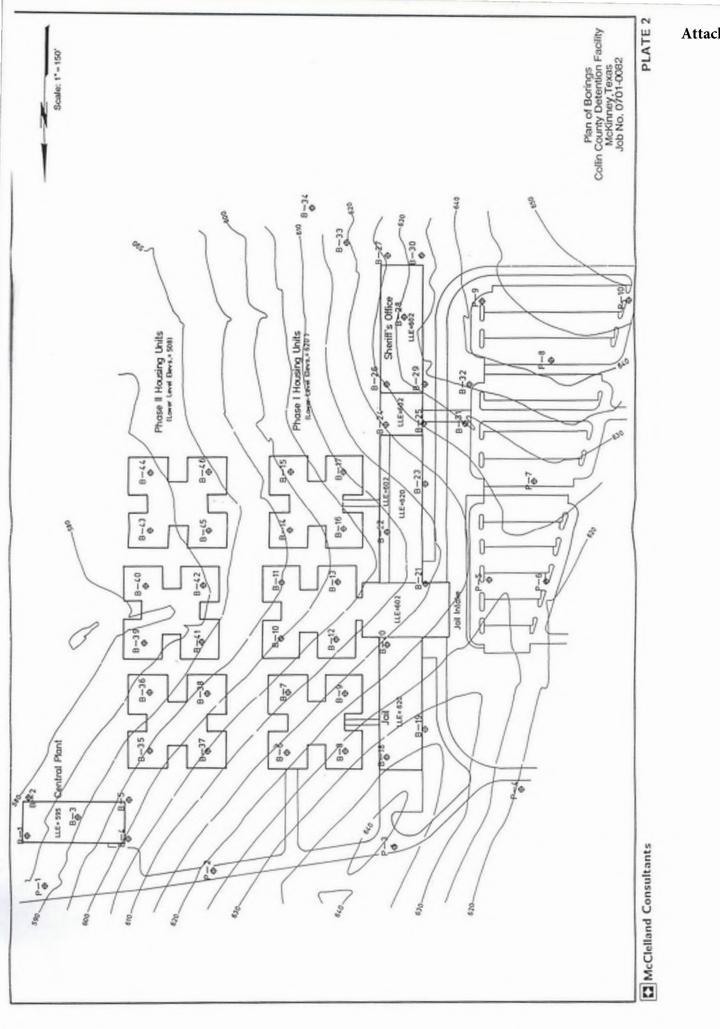
Name	Company	Phone	E-Mail
STURRT Hallson	y Huss	214-378-929	STURAT OHSIDERY WT. B
Kerin Holloway	HWP	214-878-9275	Kevin QhollowAywp.com
Nathaniel P. Witclett	Collin County EQ-SVC	972-548-3729	npritchett@Co.collin.TX.US
Darron Marzett		972-548-3712	dmarzetteco.collin.tx.us
MICHAEL SMITH	MD ENGINEERING	469-467-0200	msmithe md-eng.com
CHRESTOPHER PEREFECTA	COLLER COURT SHORE RESS OFFICE.	972-547-5216	CPEREPICZHO D COLLESCONNTT-X.600
Shay Purser	Collin Canty Purchaving	972 547 4104	Spurgena co. collin. tz. US
Ricky Thomas	Facilities Maint.	214 733-6032	rthomas 2@ co. Collin. tx.us
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IFB # 2024-282 MANDATORY PRE-BID CONFERENCE SIGN IN SHEET

Project:	Construction, Emergency Generator Fueling System Replacement	Meeting Date:	May 30, 2024
Facilitator:	Susan Hayes	Place/Room:	Central Plant Conference Room

Name	Company	Phone	E-Mail
Michael Woul	SF TExno/eun bray	469-580-0496	Muarde stpe tro group. com
Che Min	JFPelo/lolon	877-845-1200	ched @carbonenviro. com
LAZ VADASZ	C, C	9725475332	Ivadaszeco, collin, tx, us
Goorge King	GC.	972 547 5363	gking C collin county fx. gov
Nathaniel Pritchers	CC	972-548-3729	npri+che++@ co. collin. TX. US
Darron Marzet	Ū l	972-548-3712	dmarzett@co.collin.tx.us
MICHAEL SMITH	MO ENGINELERING	469-467-0200	msmithe md-eng. com
CHRISTOPHER PERERICIA	CONTRÀ CONOM SHEATERS OFFECC	9172-547-5216	CREEPZIZH BCOLLENCEUNITTR. 600
LISH MARIE BATTS	sce	972 548 4543	LEATTS @ CO. OOLUIF. TX. 45



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Attachment B

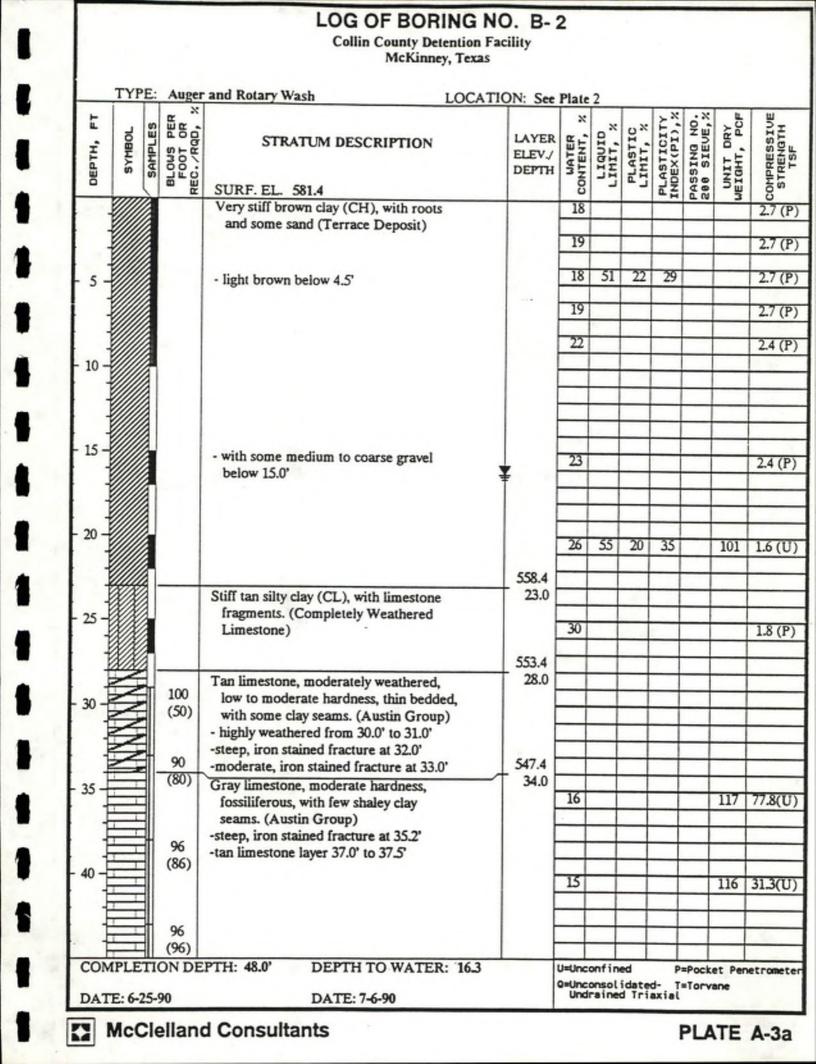
LOG OF BORING NO. B-1 Collin County Detention Facility

McKinney, Texas

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DEPTH,	SYMBOL	SAMPLES	NAS PER	STRATUM DESCRIPTION	LAYEL	ENT,	LIMIT,	PLASTIC	TICI'	PASSING N 200 SIEUE	T DRY	COMPRESSIVE
DEP	ŝ	SA	BLOWS FOOT REC./RG	SURF. EL. 581.8	DEPTI	WATER CONTENT,	LLT	PLAS'	PLASTICI INDEX(PI)	ISSH 80	UNIT	STRE
				Very stiff brown clay (CH), with roots	-	16			- H	0.0	3	2.7 (
				and calcareous particles (Terrace Deposit)		16	-					
				- with some fine gravel and limestone		10			-			2.7 (
5 -				fragments below 2.0'		18				_		2.7 (
1				- tan below 6.0'	-	19	-	-				2.7 (
-					1	20						
10 -						20	-			-		2.7 ()
-												
1							_					
-				- stiff below 14.0'		21						
15 -						- 21		-				1.6 (1
-					Ţ							
1					ŧ			-		-		
20 -						30	_	_				1.9 (F
1						\vdash						
+		-		Stiff tan silty clay (CL), with limestone	558.8		_					
25-	XX			fragments. (Completely Weathered		27						1.2 (F
-	XX	-	-	Limestone)	555.8			_	-			
t	1			Tan limestone, moderately weathered, low to moderate hardness, thin bedded,	553.8				-	-	-	
ł	1		100/	with some clay seams. (Austin Group) - highly weathered 26.0' to 27.0'	28.0							
30 -		T	1.25*	Gray limestone, moderate hardness,					-	-	-	
ł				fossiliferous, with few shaley clay								
1				seams. (Austin Group)				-	-	-		
35 -			100/			\square			_			
1	-		0.6"						-	-	-	
E								_				
10 F	-											
Ē							-	_	-	_		
Ē			100/ 0.4		538.8		-				-	
-					43.0		_	_				
COM	PLET	LIC	N DEP	TH: 43.0' DEPTH TO WATER: 17.8		U=Unco				Pocke	t Pen	etromet
DAT	E: 6-2	0-9	0	DATE: 7-6-90		Q=Unco Undi	nsoli	dated Tria	i- T=	Torva	ne	

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			LOG OF BO Collin County I McKin			2						
	TYP	E: Auge	r and Rotary Wash	LOCATIO	DN: See	Plate	2					
DEPTH, FT	SYMBOL	BLOWS PER FOOT OR	STRATUM DESCRIPTION	N	LAYER ELEV./ DEPTH	E.S.	LIQUID LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,%	UNIT DRY WEIGHT, PCF	COMDECCALE
- 50 -			Gray limestone, moderate hardness fossiliferous, with few shaley clay seams. (Austin Group) '-shale seam at 47.7'	· · · · · · · ·	533.4 48.0						123	42
- 70 -												
- 80 -										-		
	APLE TE: 6-2		EPTH: 48.0' DEPTH TO WAT DATE: 7-6-90	ER: 16.3		U=Unc Q=Unc Und		ed idated d Tria			et Pen	etro

Collin County Detention Facility McKinney, Texas

SI'MBOL	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	×	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	œ	SURF. EL. 589.3 Stiff brown clay (CH), with limestone fragments (Residual Soil)	587.3	0			∎ ĝ	2 N	'n	8
5	100	Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	2.0 585.3 4.0							
	(42) 98 (54)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -steep, iron stained fracture at 7.5'								
	96 (46)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	577.3 12.0	13					125	65.0 (
11111	90 (74)	-tan limestone seam at 12.1' -steep fracture at 16.7'		14					122	53.8 (
	100		¥	12					128	63.9 (
	(100)			11	-			_	115	68.4 (
	(90) 98 (74)	-moderate fracture at 28.1'		80					70	110 /
15 -		-bentonitic seam at 33.0'	555.3 34.0	00					/8	118 ()
							_			
-0-								_		
COMPLET		PTH: 34.0' DEPTH TO WATER: 23.1 DATE: 7-6-90		U=Unc Q=Unc Und		idate	d- T	=Torv		netrome

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Collin County Detention Facility McKinney, Texas

FT			a ×			×	×		۲×.	in'	PCF	3.
DEPTH, F	SYMBOL	SAMPLES	FOOT OR REC./RQD, >	STRATUM DESCRIPTION SURF. EL. 601.3	LAYE ELEV DEPT		LIMIT,	PLASTIC LIMIT, >	PLASTICIT INDEX(PI)	PASSING N	UNIT DRY WEIGHT, PO	COMPRESSIVE
				Hard brown clay (CH), with limestone		12				-		2.7
				fragments and fine gravel (Residual Soil)		11	-	-	-	-	123	11.9
5						16		-	_	_		2.7
					595.							
	XX	1		Very stiff tan silty clay (CL), with limestone fragments. (Completely	593.8	-	-	-	-			2.7
-	2	P	92	Weathered Limestone)	/ 7.							
10 -	5		(68)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded,	590.3	-						-
-				with some clay seams. (Austin Group)	11.						126	111
1	1			-steep to moderate fractures from 9.0' to 11.0'							-	
15 -	1		98 (98)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay		12				-	127	138
-				seams. (Austin Group)								
-	1			 tan weathered limestone layer 12.8' to 13.4' 		-		-	-			-
20 -			98 (92)			12					130	101
1			()~)			12					130	101
-												
25 -			96							_	147	
-			(92)			12					126	65.7
1					\$ 572.3							
30 -		#			- 29.0							
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DAT	E: 6-2	8-0	0	DATE: 7-6-90		Q=Unx	consol	idate d Tri	d- T axial	=Torv	ane	
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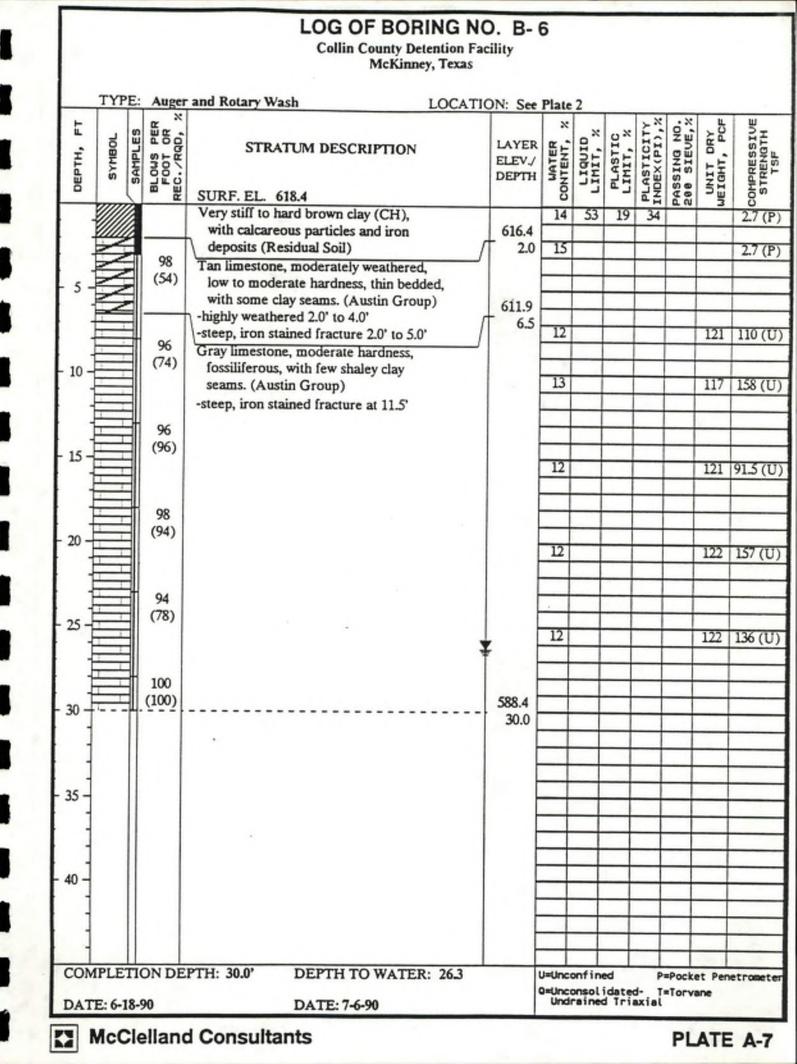
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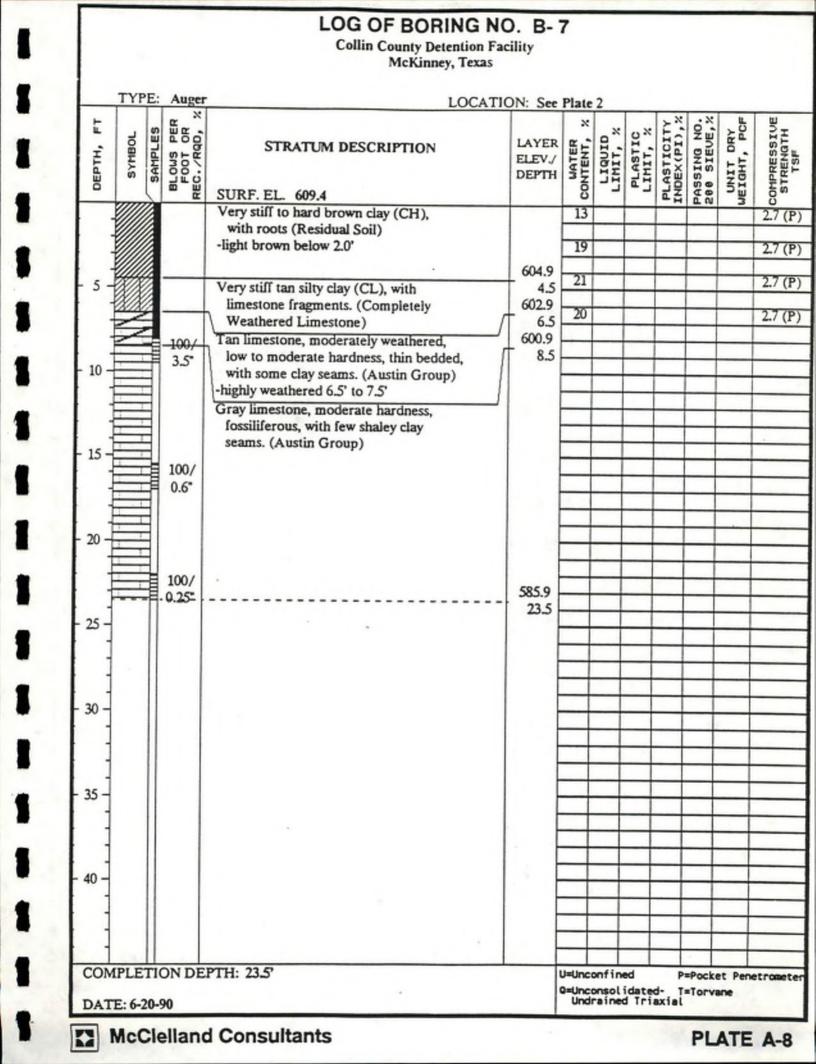
Collin County Detention Facility McKinney, Texas

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F		_	Auger	LOCATI	ON: See	×			××.		. 6	B
DEPTH, F	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION SURF. EL. 597.8	LAYER ELEV./ DEPTH	WATER CONTENT,	LIMIT, X	PLASTIC LIMIT, X	PLASTICIT INDEX(PI),	PASSING NO 200 SIEVE,	UNIT DRY WEIGHT, PCF	COMPRESSIVE
				Very stiff to hard brown clay (CH),		14						2.7 (
-				with calcareous particles and roots (Residual Soil)	595.2	17						2.7
5 -			100/ 9.6"	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	2.6					_		
			100/ 0.75"	Gray limestone, moderate hardness,	590.9 6.9							
10 -				fossiliferous, with few shaley clay seams. (Austin Group)			_					
											_	
15 -												
20 -			100/			_						
		H .	-0.4-		575.4 22.4	_			_		_	
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10 -									_	_	_	
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				PTH: 22.4'		U=Unc	onsol	idate	d- T	=Pocke	et Pen	etrome
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LOG OF BORING NO. B- 8 Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	mer .				× 1			12.0	0		2
-	SAM	BLOWS PER FOOT OR REC./RQD, 3	STRATUM DESCRIPTION SURF. EL. 627.8	LAY	ER V./ TH	CONTENT,	LIQUID LIMIT, X	PLASTIC LIMIT, X	PLASTICIT, INDEX(PI),	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
			Very stiff brown clay (CH), with	62	6.3	16						2.7 (F
-			calcareous nodules and roots (Residual Soil)	ΛŤ	1.5	21						27/1
t		100/	Very stiff tan silty clay (CL), with		4.9	-21		-				2.7 (1
5		0.9"	limestone fragments. (Completely Weathered Limestone)		2.9	_					_	
-			Tan limestone, moderately weathered,			_						
1		h	low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	619	8.2	-				-		
10 -			-highly weathered 2.9' to 4.2' -with unweathered layers below 6.0'		F							
Ę		100/	Gray limestone, moderate hardness,		F							
f		0.75*	fossiliferous, with few shaley clay seams. (Austin Group)		ŀ	-	_					
15-	1		seams. (Austin Group)		t							
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DAT	E: 6-19-	-90				Und	raine	d Tri	axial			

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 618.6		LAYER ELEV./ DEPTH	WATER CONTENT, X	LIQUID LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				Very stiff brown clay (CH), with	T		16	54	20	34	-		2.7 (P)
				calcareous particles and roots (Residual Soil)	≁	616.6 2.0	20					_	
	2			Tan limestone, highly weathered, low		614.6	17						2.7 (P)
	1	T	87	hardness, thin bedded, with clay layers.	rt	4.0			-	-	-	-	2/(F)
5-			(42)	(Austin Group)						-		-	
		11		Tan limestone, moderately weathered,									
-		4	94	low to moderate hardness, thin bedded,									
-			(38)	with some clay seams. (Austin Group)				_	_			_	
10 -			(30)	-steep, iron stained fracture 4.0' to 8.0'	L	-	13	-	-	-	-	117	107 /77
-	\sim					606.6	15	-			-	117	107 (U)
-		11		Gray limestone, moderate hardness,	t	12.0	-	-	-	-			
1	1	Π	98	fossiliferous, with few shaley clay				-	-		-	_	
15 -		11	(98)	seams. (Austin Group)		[
-							13					121	93.7 (U
+	1			-steep fracture at 16.7'		H	_	_	_	-			
-	1	H	96			ł	-	-	-	-	-		
- 1	1		(86)			H	-	-	-+	-	-		
20 -	1				L	H	13	-	-	-	-+	121	111 (U)
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25 -	1		(78)			H	10	_	_			100	
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							=Unco	nsoli	dated	- T=			
DAT	E: 6-1	8-9	0	DATE: 7-6-90			Undr	ained	Tria	xial			

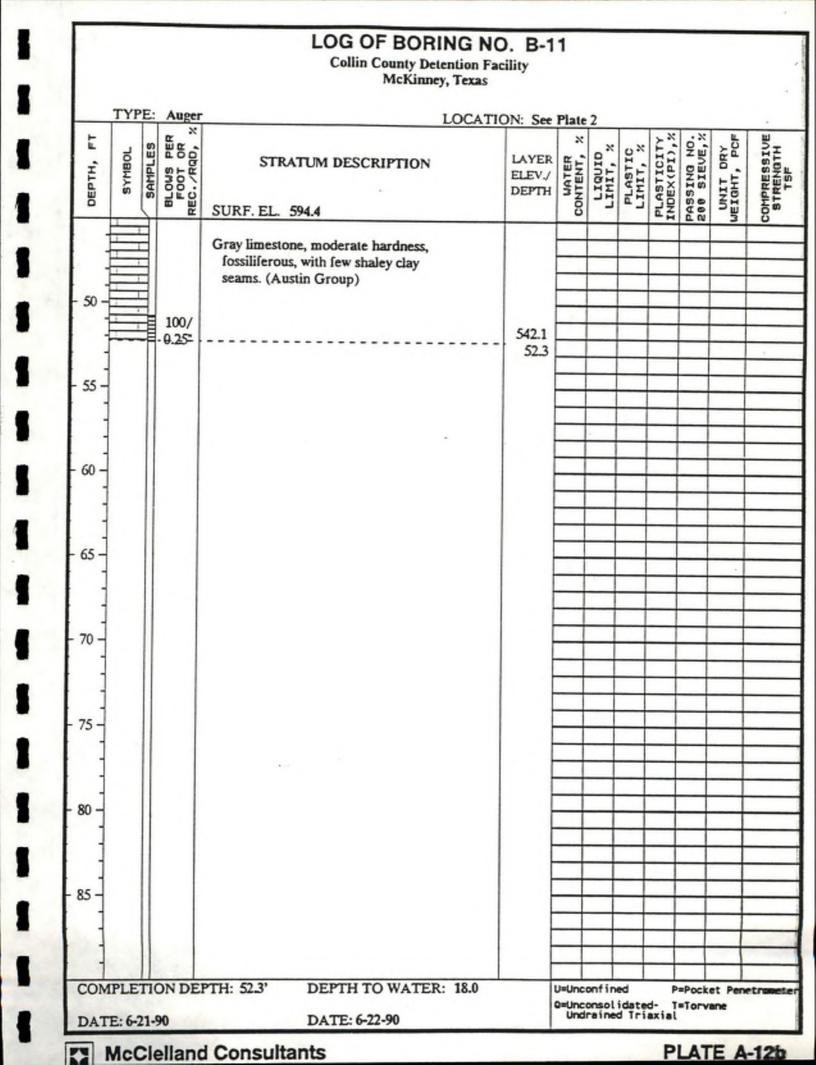
Collin County Detention Facility McKinney, Texas

DEPTH, FT	SYMBOL	SAMPLES BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION SURF. EL. 600.4	LAYER ELEV./ DEPTH	ATER ENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
			Very stiff brown clay (CH), with limestone fragments (Residual Soil)	1	14			- H	E. O	3	2.7 (P
	Ŵ		milestone magments (Residual Soll)	596.4	17						2.7 (P
- 5 -	VVVV	100 (40) 94	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 4.0' to 5.0' -with fewer clay seams below 8.0'	4.0	18						2.7 (F
- 10 -	N	(46)		589.4	_	_					
		96 (72)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -with tan, moderately weathered seams	11.0	12					123	120 (1
- 15 -			13.0' to 18.0'		_			_			
20 -		98 (80)			13	_	_			118	89.7 (1
25 -		100 (100)		¥	12		-			123	82_3 (L
		100 (100)		570.4	13	_		_	_	102	0117
30 -				30.0	15			_		125	94.1 (L
35 -						_	_			_	
-										_	
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-					_				-	_	
CON	IPLET	ION DE	PTH: 30.0' DEPTH TO WATER: 25.7		U=Unco						etromet
	IPLET E: 6-19		PTH: 30.0' DEPTH TO WATER: 25.7 DATE: 7-18-90		0=Unco	onsol		d- T			etro

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYHBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	NTER X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	V////			Very stiff dark brown clay (CH), with		21			- H	E. CU	3	2.7 (F
				some calcareous particles (Terrace			_					
-				Deposit)		19	-				_	2.7 (F
5-						18	-	-				2.7 (F
-				 with some shell fragments and fine gravel below 5.0' 								
-				gravel below 5.0	1.10	19						2.7 (F
1						20	_	-		-		2.7 (F
10 -						-						4.1 (1
-												
-							-					
]				-stiff, light brown below 12.5'		-	-			-	-	
15-				·								
+						24						1.8 (P
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20 -						20						
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I												
ŧ						-						
30 -				-with slickensided fissures below 30.0'		32	-	_	-	-		21/0
			- 1			52	-	-	-	-		2.1 (P
1		Π		***	560.9							
-	<u> </u>			Stiff tan silty clay (CL), with limestone	33.5							
35-	XX	١.		fragments. (Completely Weathered	558.7	21	-	-	-	-		2.7 (P
		1	100/	Limestone)	35.7				-	-	-	
E	-	1	0.5	Tan limestone, moderately weathered, low to moderate hardness, thin bedded,	557.3							
ŧ				with some clay seams. (Austin Group)	3/.1		_	_	_	_		
40 -				-highly weathered 35.7' to 36.5'			-			\rightarrow	-	
ŧ				Gray limestone, moderate hardness,						-		
F	T	Ħ	100/	fossiliferous, with few shaley clay seams. (Austin Group)								
F	1	F	0.4"	scans. (Ausun Group)			-	-				
COM	PLE	TIC	ON DE	PTH: 52.3' DEPTH TO WATER: 18.0		U=Unc	onfin	ed	P	=Pock	et Per	etromet
						Q=Unc		idate	d- T	Torv		
DAT	E: 6-2	1-9	90	DATE: 6-22-90		Und	aine	u 111	axial			



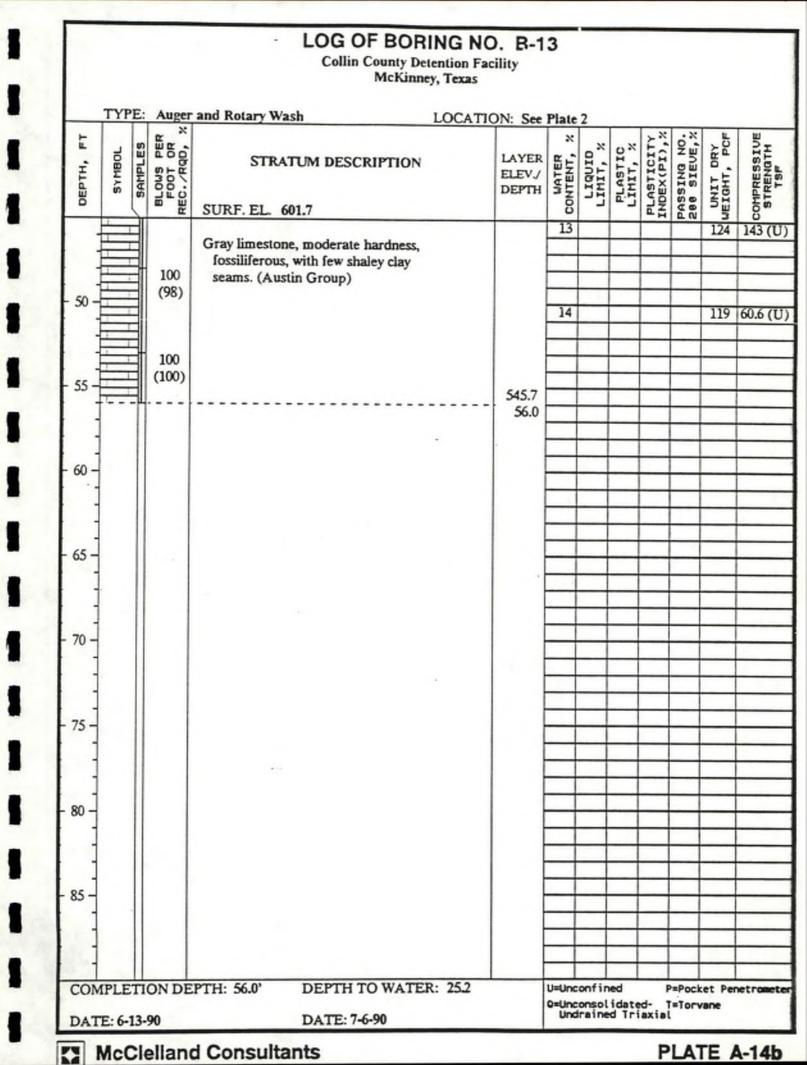
LOG OF BORING NO. B-12 Collin County Detention Facility McKinney, Texas

- 5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	100/ 100/	 SURF. EL. 608.0 Very stiff brown silty clay (CL), with limestone fragments (Residual Soil) -with calcareous particles below 4.0' Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7' to 21.2' 	601.8 6.2 600.0 597.7 10.3 594.3 13.7		48 22		PASSING NO. 200 SIEVE,X	
20 15 11 11 11 11 11 11 11 11 11 11 11 11	100/	-with calcareous particles below 4.0' Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	6.2 600.0 597.7 10.3 594.3	18	48 22	26		
20 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	100/	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	6.2 600.0 597.7 10.3 594.3	18				
20 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	100/	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	6.2 600.0 597.7 10.3 594.3	19				
20 15 11 11 11 11 11 11 11 11 11 11 11 11	100/	Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	6.2 600.0 597.7 10.3 594.3	19				
20 25	100/	limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	6.2 600.0 597.7 10.3 594.3					
20 15 11 11 11 11 11 11 11 11 11 11 11 11	100/	limestone fragments. (Completely Weathered Limestone) Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	597.7 597.7 594.3					
20 15 11 11 11 11 11 11 11 11 11 11 11 11	100/	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	597.7 597.7 594.3					
20 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10	100/	hardness, thin bedded, with clay layers. (Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	594.3					
20	100/	(Austin Group) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'	594.3					
20		Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'						
20		low to moderate hardness, thin bedded, with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'						
		with some clay seams. (Austin Group) Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'						
		Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7'						
25-111		fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 19.7						
25 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -		-tan, moderately weathered layer 19.7"						
25 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -					-			
25-111								
		10 21.2						
								1
	0.6*							
30 -								
30 -					-			
30 -	100/		670.2					
30 -	. 0.5-		- 579.3					
			20./					
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- 1								
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35 -								
1								
					-			
-					-			
40 -								
1					-			
1								
1								
1								
COMPLET	ION DE	EPTH: 28.7'		U=Uncon				cet Per
DATE: 6-21				Undra	ined Tr	iaxia	TeTory	ane

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Collin County Detention Facility McKinney, Texas

חבריוח, רו	SYMBOL	SAMPLES	FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 601.7	LAYEI ELEV., DEPTH	MATE UCONTEN	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE, 2	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
-				Very stiff dark brown clay (CH), with		23						2.7 (P
Į				roots (Terrace Deposit)		20	56	23	33			2.7 (P
				-light brown with shell fragments and		19			-	-		2.7 (P
				calcareous particles below 4.0'								
						20	-		-			2.7 (P
, I				-stiff to very stiff below 8.0'		22				_		2.1 (P
										_	_	
1											_	
s-l				with limestone from ante and inco								
				 with limestone fragments and iron staining below 15.0' 		24			-		91	1.6 (L
Į							_					
-					1	24	59	21	38			2.5 (P
I		1										
					Ļ							
ł					Ť	26		_		_		2.4 (P
Ų		1										
							-	-				
				-with slickensided fissures below 30.0'		26						1.9 (F
y					1.00				-			
ł		-		Tan limestone, highly weathered, low	567.7						_	
1 AL	4			hardness, thin bedded, with clay layers.								
N-N	1			(Austin Group)								
N-1	\geq		74 (36)	-iron staining at 39.8'	561.9							
H	-			Gray limestone, moderate hardness,	39.8	13		-			125	104 (U
H				fossiliferous, with few shaley clay seams. (Austin Group)		-		-				
H		1	94					_				
OMI	PLET		(94) N DE	PTH: 56.0' DEPTH TO WATER: 25.2		U=Uno	confir	ved	F	PePock	et Pe	netromet
	: 6-1	2.04		DATE: 7-6-90		Q=Und	inaine	idate d Tri	d- 1	TeTory	ane	



Collin County Detention Facility McKinney, Texas

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UEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 595.6	LAYER ELEV./ DEPTH	UATE CONTEN	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	STRENGTH
-				Very stiff brown and dark brown silty clay (CL), with some limestone		16	33	20	13	_		2.7 (F
1	99			fragments (Terrace Deposit)		22						2.7 (F
-	84				1.1	19	_					2.7 (F
1	àÀ			-with some calcareous particles and iron staining below 5.0'							-	
	XX					19						2.7 (F
	XX			 light brown with some fine gravel below 8.0' 		20			_		107	2.9 (1
	XX									-		
								_		_		
	ÌŇ								-		-	
	XX			-stiff below 15.0'		23	46	20	26	_	94	1.2 (1
	XX				1.1	-	40	20	20		74	1.2 (1
	XX						-	-	-			
	X			-firm below 20.0'		22		20				
	UX.			- mm 00104 2010	¥	27	44	20	24	-	95	0.9 (1
	XX						_	_	_	_		
	01											
	X					25	-	-		-		0.9 (1
	Ø				5000							
		H-	89	Tan limestone, moderately weathered,	566.6	-	-	-	-			
	\leq		(25)	low to moderate hardness, thin bedded,			_					
	2			with some clay seams. (Austin Group)								
	2		69 (51)		560.6		-	-	-	-		
	-			Gray limestone, moderate hardness,	35.0							-
				fossiliferous, with few shaley clay seams. (Austin Group)		13	-	-		-	124	108 (1
I	Ť		~	Contraction (Contraction (Contraction)	·							
			96 (96)				-	-	-	-		
						12					126	157.00
Þ						12					120	157 (0
E	DIE		NDE	PTH: 50.0' DEPTH TO WATER: 20.9		U=Unc	onfin			=Deck	at Der	etrome
						Q=Unc	onsol		d- T	=Torv		
1	E: 6-1	2-5	0	DATE: 7-6-90						_	_	

Collin County Detention Facility McKinney, Texas

FT	100		and Rotary Wash LOC	ATION: See	X			XX	·×	L.	W
DEPTH, F	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION SURF. EL. 595.6	LAYER ELEV./ DEPTH		LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	± ±	92			*						
-		(92)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay								
50 -		100	seams. (Austin Group)	545.6	13					122	59.1 (1
-		(100)		50.0					_		
-							_	_			
55 -						_	_		_	_	
-							_				
60 -					_	_					
65 -					-		_			_	
-											
70 -						-		-		_	
-								_	-		
75									\Rightarrow	_	
75 -						_					
-					-	-				_	
80 -					\Rightarrow	+	\neg	\neg	+		
1							_	_	_		
85 -											
1	- 11										
1											
СОМ	PLETI	ON DEI	PTH: 50.0' DEPTH TO WATER: 20.1	, I	U=Unco	onfine	rd ba	P	Pocke	t Pen	etrone
DAT	E: 6-12-	00	DATE: 7-6-90		Unco	Insol	idated Tria				

McClelland Consultants

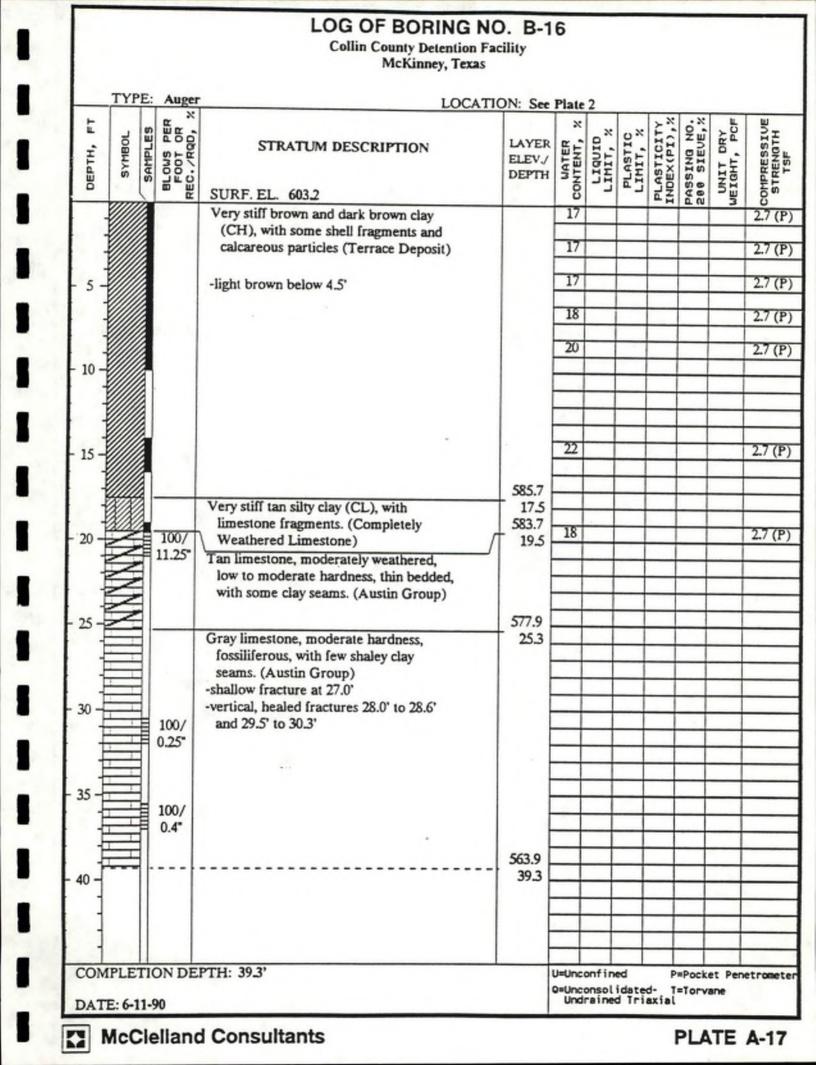
PLATE A-15b

LOG OF BORING NO. B-15 Collin County Detention Facility

McKinney, Texas

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E.			E ×	LOCATIO		×			××	· ×		B
DEPTH, F	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION SURF. EL. 600.8	LAYER ELEV./ DEPTH	WATE UCONTEN	LIMIT, %	PLASTIC LIMIT, X	PLASTICIT INDEX(PI),	PASSING NC 200 SIEUE,	UNIT DRY WEIGHT, PCI	COMPRESSIVE STRENGTH
-			-	Very stiff brown and dark brown clay (CH), with calcareous particles		16						2.7 (
			1.1	(Residual Soil)		19			_		-	2.7 (
-	44				596.3	20						2.7 (
5 -	X			Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	4.5 593.6	23				_		2.7 (
-	1		100/	Tan limestone, moderately weathered,	7.2					_		
10 -	2		3.5*	low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 7.2' to 9.0'	589.7		_	_	_			
1				Gray limestone, moderate hardness,	11.1							
-		1		fossiliferous, with few shaley clay seams. (Austin Group)		_		_	_			
15-	- 1	1		-shallow, iron stained fracture at 13.9'								_
ŧ	-											_
20			100/ 0.25*	-tan, moderately weathered layer 19.5'to 20.0'								
				-wide, horizontal joints below 20.0'			_	_				
25-			100/				_					
f		8.	0.3"-		574.8 26.0			_				
-							_					
- 04						_						_
1			1			_		_			_	_
5-						_					_	_
-												
-												
6-01									-			
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1												
COM	PLE	LIC	ON DE	PTH: 26.0'		U=Unc						etrome
TA	E: 6-1	2-9	0			0=Unc Und	raine	idate d Tri	d- T axial	=Torv	ane	



Collin County Detention Facility McKinney, Texas

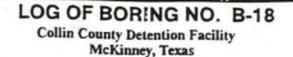
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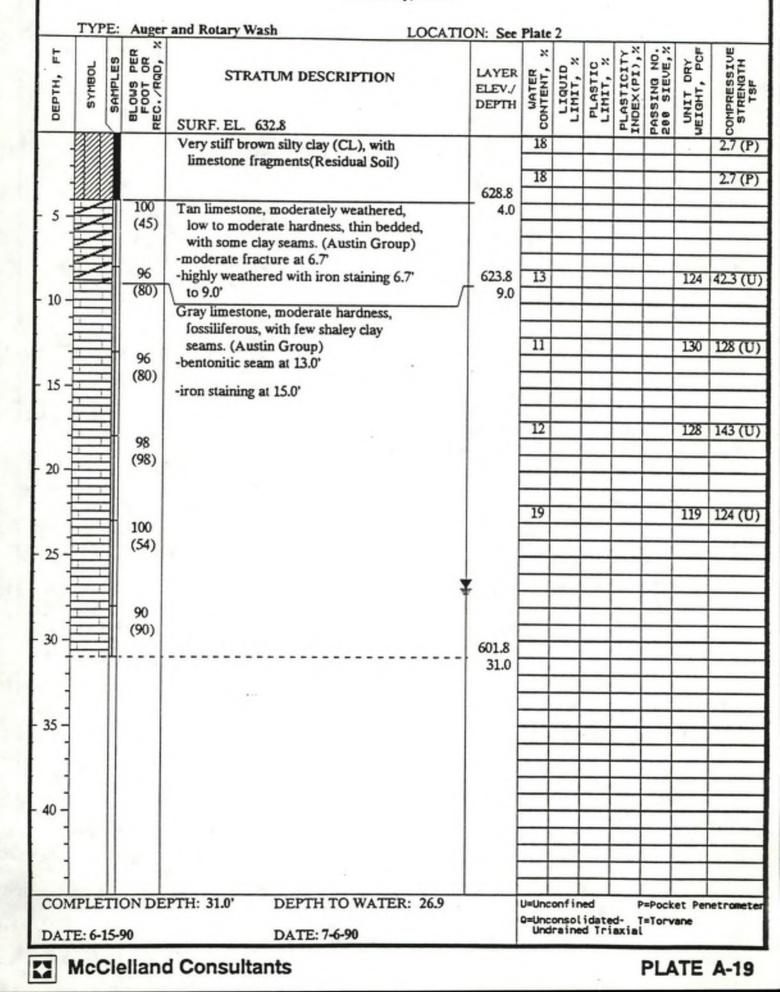
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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	WATER CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
0		Y.	8 12	SURF. EL. 610.0			-3	•3		PAS	TEN C	COM
				Very stiff to hard brown and dark		15	48	25	23			2.7 (P
				brown silty clay (CL), with some calcareous particles (Residual Soil)		21	-	_				2.7 (P
		411	100	Tan limestone, moderately weathered,	606.5 3.5	21						2.7 (P
5 -	N		(55)	low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	5.5	14					116	80.1 (1
			94	- highly weathered layer 7.0' to 7.5' -steep fracture at 8.6'		15					120	84.1 (1
10 -		-	(84)	Gray limestone, moderate hardness,	600.7 9.3	-	-	-	-	-		
10 -				fossiliferous, with few shaley clay	3.5							
	-	#	96	seams. (Austin Group) - tan, moderately weathered seams 12.5'		-	-	-	_	_		
	1		(92)	to 17.5'								
15 -						17		_		_	112	70 4 75
						1/		-	-	-	115	78.4 (L
		₩	94									
-	-		(92)			-	_			_		
20 -				- tan limestone layer at 20.5								
-	1					_						
1			100 (100)			-	-	-	-	-		
25-	1		(100)		584.5	12					127	115 (U
-	'-	T			25.5	1	-	_	_	_		
							-			-		
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30 -							-	-	_	-		
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1	(DI T		NIDE	PTU. 25.51								
LON	IPLE	110	DN DE	PTH: 25.5'		U=Unc	onsol	idate	d- T			etromet
DAT	E: 6-1	0-9	0			Und	raine	d Tri	axial			





LOG OF BORING NO. B-19 Collin County Detention Facility McKinney, Texas

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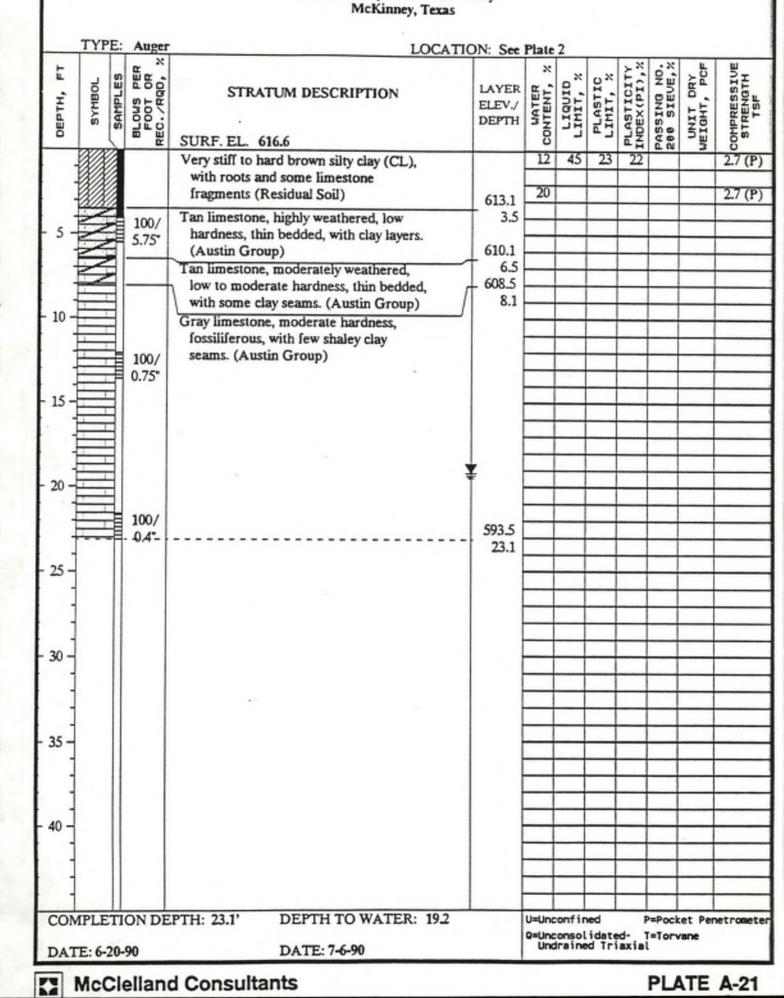
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F		_	Auger	LOCATI	1	× mat	:		××		H.	m
DEPTH, F	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	LAYE ELEV DEPT		LIMIT, X	PLASTIC LIMIT, X	PLASTICIT INDEX(PI),	PASSING NO 200 SIEVE,	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	<u>x</u> ix		œ	SURF. EL. 629.0 Very stiff to hard brown silty clay (CL),		12		_	Ēμ	6.0	3	8
]	XX		-	with roots and limestone fragments	627.		-	-	-			2.7 (F
1	XX			(Residual Soil)	I 626.		-				-	2.7 (F
+	-		100/	Very stiff tan silty clay (CL), with	3.							
5-	\sim	긜.	100/	limestone fragments. (Completely	- 624.0							
Ť	1	11		Weathered Limestone)	5.	0	-					
3	1	Ħ	100/	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers.		-		-		-		
1		Ħ.	4.4"	(Austin Group)								
10 -				Tan limestone, moderately weathered,	1.1							
ł		Η.	100/	low to moderate hardness, thin bedded,		_						
	1	月.	0.9	with some clay seams. (Austin Group)	616.4			-		_		
Ē	1			Gray limestone, moderate hardness,	12.	5		-	-		-	
15-				fossiliferous, with few shaley clay seams. (Austin Group)		-				-	-	
÷				scans. (Ausun Group)								
E	1											
1	-					_				_		
E						-		-	-	-		_
20 F						-		-	-	-		
E	1											
÷	1							-				
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5+						-						
E			100/					-		-	-	
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1							-	-	-	-	-	-
OMI	PLET	10	N DEF	'TH: 28.0'			onfin					tromet
ATE	: 6-20	-9)			Und	rained	Tria	xial	Torva	ine .	
									-	-		

LOG OF BORING NO. B-20 **Collin County Detention Facility**



Collin County Detention Facility McKinney, Texas

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UEPIH, FI	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 613.5	LAYER ELEV./ DEPTH	UATEN CONTEN	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-				Very stiff dark brown and brown clay (CH), with some gravel and calcareous		17						2.7 (F
-				particles (Terrace Deposit)		30						2.7 (F
-				-light brown with limestone and shell		20						2.7 (F
				fragments below 4.5'		21		_				2.7 (F
						23	59	23	36		101	2.6 (P
and												
			-		-	26						2.4 (P
dedada							_			_		
						23	54	23	31		100	3.0 (U
					588.5	~	_					
				Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	25.0	26						2.1 (P
		Π-	100		582.5	_					_	
101 101			(50) 92	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	31.0	_		_	_	_		
	6		(54)	-occasional gray limestone seams below			_	_			_	
	3			 -occasional gray limestone seams below 34.3' -moderate to steep, iron stained fractures below 35.3' Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan limestone seam 39.1' 								
	2	-	94		575.2	14	-	_	_	_	117	60.7 (1
			(94)		30.3	-	-			-		
						10					105	050.00
	-	+	-tan limestone seam 39.1		12 12		-				85.0 (t 115 (t	
Ē			(96)			1						
				PTH: 53.0'		U=Unc	onsol	idate	d- T	=Torv		netrome
\TI	E: 6-1	9-9	90			Und	raine		axial			_

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 613.5	LAYER ELEV./ DEPTH	WATER CONTENT, 2	LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX(PI),%	PASSING NO. 208 SIEUE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH 1 CF
50 -		98 (78)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -shallow fracture at 48.0'		13						83.7 (1
			-bentonitic seam at 52.1'	560.5 53.0	14					117	136 (T
55 -											
60 -											
65 -					_						
70 -											
75 -					_					_	
80 -											
85 -											
COM	IPLETI	ON DE	PTH: 53.0'			onfin					netrome
DAT	E: 6-19-	90			0=Und Und	inaine	idate d Tri	d- T axial	=Torv	ane	

Collin County Detention Facility McKinney, Texas

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L			Auger	LOCATI	ON: See	Plate			××	·×		E.
DEPTH, F	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, >	STRATUM DESCRIPTION SURF. EL. 607.8	LAYER ELEV./ DEPTH	EN I	LIMIT, %	PLASTIC LIMIT, X	PLASTICIT INDEX(PI),	PASSING NO 200 SIEVE,	UNIT DRY WEIGHT, PCF	COMPRESSIVE
				Very stiff dark brown and brown clay		17					-	2.7 (1
				(CH), with calcareous particles (Terrace Deposit)		18						2.7 (1
5				-light brown below 4.0'		18		-				2.7 (1
-						19				_		2.7 (1
-												
10-						22						2.4 (1
1										_		
-							_	_				
15-						25						2.4 (1
1			100.1	Tan limestone, highly weathered, low	591.3 16.5							
-	2	ŀ	100/	hardness, thin bedded, with clay layers. (Austin Group)	- 589.8		_					
20-			100/	Gray limestone, moderate hardness,	18.0	_	_	_	_	_	_	
Ę	1	1	1.75*	fossiliferous, with few shaley clay seams. (Austin Group)				-				_
1				-thin bedded 18.0' to 20.3'							-	
25 -							-	-	-			
E								_	_	_		
ŧ												
30	-											
E		ł	100/		574.6		_	-	-	-		
	!-	Ī.	-0.4		33.2			_		_		
35 -												
1		-										
40 -									_			
-									_		_	
1										_		
1												
				PTH: 33.2'		U=Unc	onsol	idate	d- T	Torv		etrome
DAT	E: 6-1	2-9	0			Und	aine	d Tri	axial			

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	×	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
20 10 10 10 10 10 10 10 10 10 1			100/ 8.25° 98 (92) 99 (99) 100 (100) 98 (98) 100 (100)	SURF. EL. 617.0 Very stiff brown and dark brown clay (CH), with limestone fragments (Residual Soil) Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 4.0' to 5.0' Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered seam at 14.5' -tan, moderately weathered, vertical, healed fracture at 18.4' -steep fracture at 29.0'	615.0 2.0 613.0 4.0 609.6 7.4 587.5 29.5							8" 2.7 (P
40												
COM				PTH: 29.5'		Q=Unc	onsol		d- T	=Torv		etromet

Collin County Detention Facility McKinney, Texas

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	and Rotary Wash LOCATIC	LAYER ELEV./	×	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	T DRY	COMPRESSIVE		
DEP	60	SP	BLO REC.	SURF. EL. 619.7	DEPTH	C	-			PASS1	UNIT			
1				Very stiff to hard brown silty clay (CL), with limestone fragments and iron		11	48	23	25		104	2.7 (
1				staining (Residual Soil)	615.7	12			_	_		2.7 (
5-			92 (54)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -moderate fracture at 7.6'	4.0							-		
10 -	2		92	-moderate fracture at 7.6	609.2	13	_	_	_		122	52.8 (
			(72)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	10.5									
15 -			96 (92)	-tan, moderately weathered layer at 14.5'		12					122	98.2 (
20			92 (52)	-tan, moderately weathered layer 18.8' to 19.6'										
25			98 (72)			13				_	118	109 (
Thirt				-moderate fracture at 28.3'		13					123	97.2 (
30 -		1.			589.7 30.0						_			
35 -														
-														
40 -												-		
-	DI		NDET	TH: 30.0' DEPTH TO WATER: 26.6										
	OMPLETION DEPTH: 30.0' DEPTH TO WATER: 26.6 ATE: 6-20-90 DATE: 7-6-90						U=Unconfined P=Pocket Panetromet Q=Unconsolidated- T=Torvane Undrained Triaxial							

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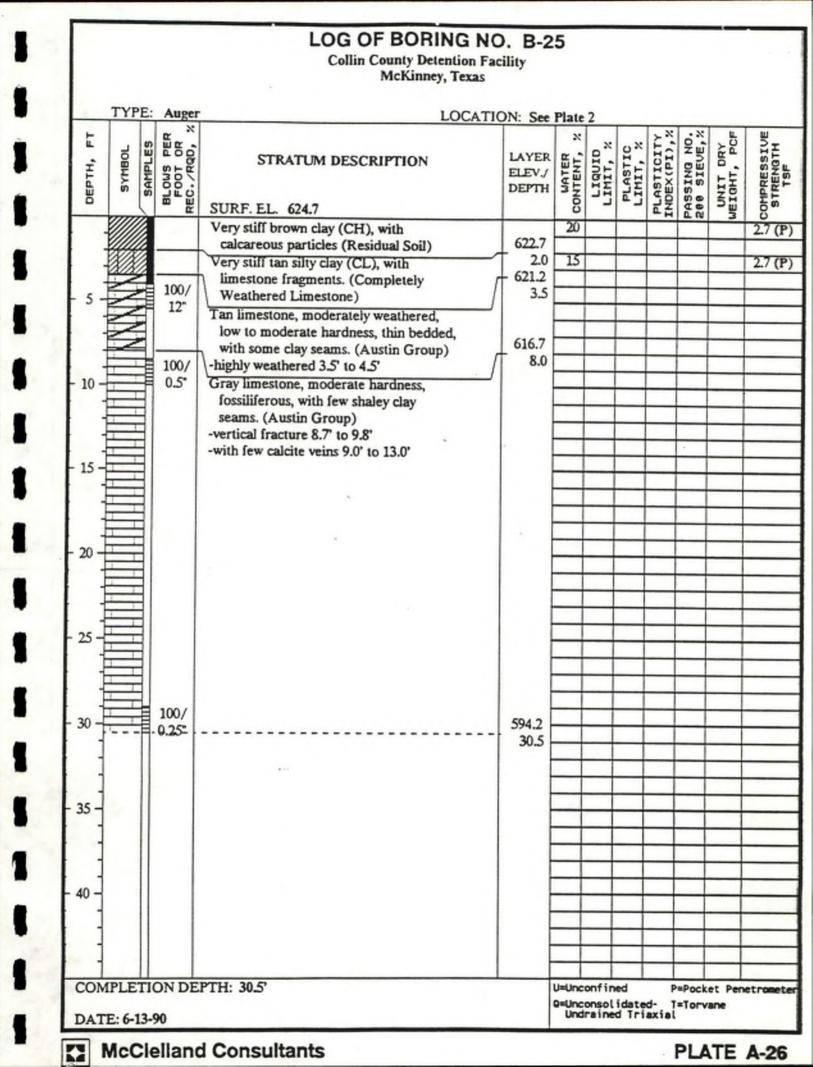
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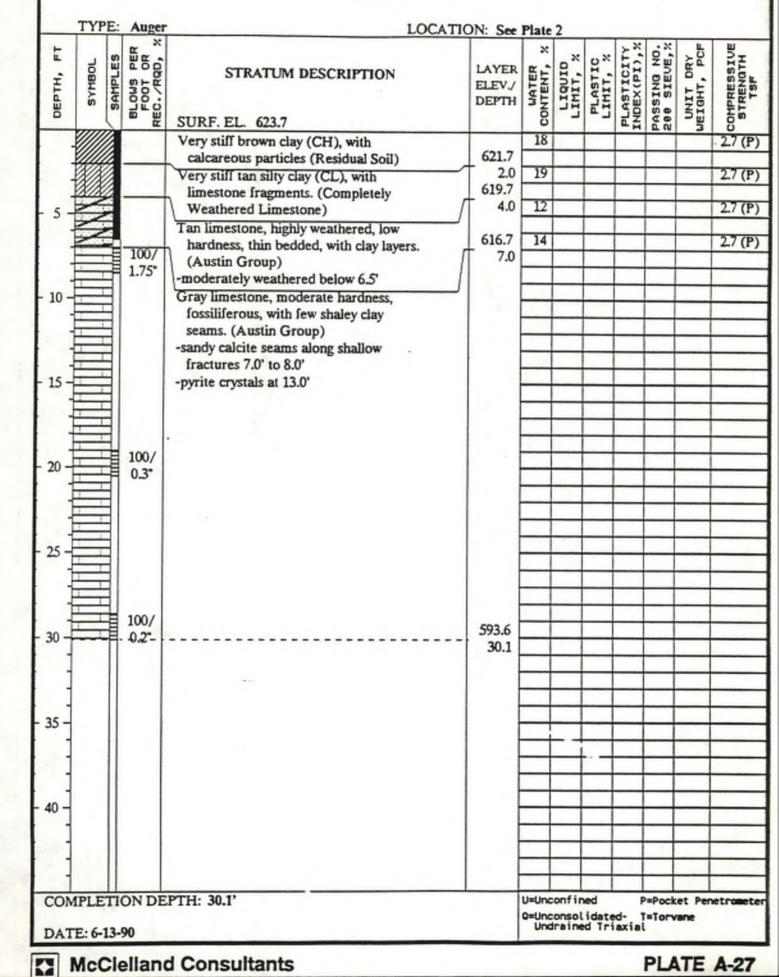
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Collin County Detention Facility

McKinney, Texas



LOG OF BORING NO. B-27 Collin County Detention Facility McKinney, Texas

		-				2					
SYMBOL	SAMPLES	FOUT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 624.5	ELEV.	E H	LIMIT, %	PLASTIC LIMIT, 2	PLASTICITY INDEX(PI),	PASSING NO. 200 SIEVE,	UNIT DRY	COMPRESSIVE
Ŵ			Very stiff brown silty clay (CL), with	-	18						2.7 (P
			calcareous particles, iron staining and shell fragments (Residual Soil)		19	_					2.7 (P
aa,		20									6.1 (I
			Tan limestone, moderately weathered,	4.0	_						
2		(0)	with some clay seams. (Austin Group)		-		-		-		
~			,								
	₽.	94	Gravilimentane medante best		_						
			fossiliferous, with few shaley clay	9.0	11		-	-	-	125	115 (U
- 1			seams. (Austin Group)					-	-	-	
1											
	H	92				-	_		_		
		(78)						-	-		
-					11	-	_		_	128	97.8 (U
	ti i	86				-	-	-	-		
1		(80)		1.1							
-					12	_	_			10/	
1					15	-	-	-	-	126	155 (U
-		100						-	-		
		(36)									
1					12	-	-	-	-	127	100 (U)
						-	-	-	-	14/	100 (0)
		100									
-						-	-		_		
						-	-	-	-		
1											
- 1	H	100									
						-	-	-+	-		
1					12	-	-	-	-	125	107 (U)
1											
-	H	100				-	-	-	-		
						-		-	-	-	
- 1					10					130	196 (U)
				570 5		-	-	-	-		
PLET	TIC	N DEP	°TH: 45.0'	5175	U=Unco	onfine	d	Pa	Pocke	t Per	etromete
ATE: 6-19-90					Q=Unconsolidated- T=Torvane Undrained Triaxial						
			78 (0) 94 (78) 92 (78) 86 (80) 100 (36) 100 (36) 100 (42) 100 (42) 100 (28) PLETION DEF	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 78 Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 (78) 92 (78) 92 (78) 92 (78) 92 (78) 92 (78) 92 (78) 92 (78) 94 Interstore, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 (78) 94 Interstore, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 (78) 100 (36) 100 (24) 100 (28) 100 (28)	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 620.5 78 Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 615.5 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 94 Fray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 92 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 92 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 92 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 92 92 Gray limestone, moderate hardness, fossiliferous, fossilife	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 78 Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 620.5 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 92 (78) fossiliferous, with few shaley clay seams. (Austin Group) 91 92 (78) 10 11 86 (80) 13 13 100 (36) 12 12 100 (28) 10 12 100 (28) 10 10 100 (28) 10 10 100 (28) 10 10 100 (28) 10 10 10	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 78 Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 620.5 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 92 (78) 615.5 92 (78) 11 100 100 11 100 12 12 100 12 12 100 100 100 (28) 579.5 Ustneomining	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 78 Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 60.5 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 90 92 (78) 11 100 36) 11 100 36) 12 100 100 12 100 100 12 100 100 100 100 579.5 10 100 579.5 Universet finded 100 579.5 Universet finded	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 78 Tan limestone, moderate ly weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) 4.0 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 9.0 92 (78) 615.5 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 9.0 92 (78) 11 100 13 13 100 (36) 12 100 (28) 579.5	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 10 78 Tan limestone, moderately weathered, low to moderate hardness, with some clay seams. (Austin Group) 620.5 4.0 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 11 92 (78) 10 11 11 100 (36) 12 11 12 100 (42) 12 12 12 100 (28) 579.5 10 10 10 100 (28) 579.5 10 10 10	Very stiff brown silty clay (CL), with calcareous particles, iron staining and shell fragments (Residual Soil) 18 10 11 78 Tan limestone, moderately weathered, low to moderate hardness, with some clay seams. (Austin Group) 620.5 4.0 10 10 94 Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) 615.5 11 125 90 111 128 10 11 128 86 (80) 11 128 11 128 100 (36) 12 127 12 126 100 (42) 12 127 12 127 100 (28) 579.5 10 130 130 100 (28) 579.5 10 130 130

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LOG OF BORING NO. B-28 Collin County Detention Facility McKinney, Texas

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E		-	E ×	and Rotary Wash LOCAT			x	~		××.	o'X	10	B-
DEPTH, F	SYMBOL	SAMPLES	FLOUS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION	EL	YER EV./	CONTENT,	LIMIT, %	PLASTIC LIMIT, 2	PLASTICIT' INDEX(PI),	PASSING ND. 200 SIEVE, 2	UNIT DRY WEIGHT, PCI	COMPRESSIVE
Ĕ			H B	SURF. EL. 631.2			CO	-2	27	PLA	PAS 200	N I I	ST
	XX			Very stiff to hard brown silty clay (CL),			8						2.7 (P
1			-	with limestone fragments (Residual	62	29.2	16						0.7 /5
t	2			Soil)	1 67	2.0	16	-					2.7 (P
E	~	T	92	Tan limestone, highly weathered, low hardness, thin bedded, with clay layers.	rt ~	4.0	-	-		-	-		
F	\leq		(60)	(Austin Group)	//	1							
ŧ	5	11		Tan limestone, moderately weathered,	- 1	1							
-	2			low to moderate hardness, thin bedded,		ļ							
-1	2	H	94	with some clay seams. (Austin Group)		ŀ	_	-	_	_			
-	~		(32)	-iron stained 9.2' to 10.6'		20.6	-	-	_	_	-		
F	1			Gray limestone, moderate hardness,	1	10.6	-	-	-	-	_		
E				fossiliferous, with few shaley clay		t	11					129	81.2 (U
F		Щ	-	seams. (Austin Group)		t							
Ē	-		92 (92)			F							
E	-		(92)			H	12					125	79.9 (U
Ħ	-					ŀ				_	_	-	
Б	1	1				H		-	-	-	-		
þ	-		96			H				-			
P			(88)			F	12					127	145 (U
E	- 1												
	-1					F							
Ē	- 1	H	90			H	-	-	-	-	_		
-			(80)			F	12	-	-	-		128	96.8 (U
-	-					F			-	-		120	10.0 (L
1	1					F							
Ħ	1	Ц				E							
E	1		100			Ē							
Ħ	-		(100)			H	13	-	-	_		124	156 (U
1	-	H	100			H	-	-+	-	-			
I	T		(100)			F	-	-	-		-		
Ħ						F			-		-		
Ē	1					E							
÷	_	Į.	~										
F			92			F	_	_	_	_			
E	-		(5)			F	-	-	-	\rightarrow	-		
ŧ	1					F	-	-	-	-	-		
Ē	1					F	-	-	-	-	-		
E	1	t	100			F	11	-	-	-		131	94.1 (U
上			(75)			t							
E	-				580	6.2							
MI	PLE.	IC	IN DE	PTH: 45.0'			=Unce	onfin	idate	d- T	=Pock =Torv		netromet
-	: 6-2	0_0	0				Und	raines	d Tri	axial			

LOG OF BORING NO. B-29 Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	SAMPLES	PLOUS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 632.0	LAYER ELEV./ DEPTH	WATER CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
				Very stiff to hard brown silty clay (CL), with limestone fragments (Residual		8		_				2.7 (P)
-	XIN			Soil)	629.0	17						2.7 (P)
5	12		92 (0)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 3.0' to 4.0'	5.0							
1	1				623.0		-	-	-	-		
10 -			94 (32)	Gray limestone, moderate hardness,	9.0	- 10						
1.1.1			(32)	fossiliferous, with few shaley clay seams. (Austin Group)		12	_				125	78.2 (U)
15-		Ħ	92			\vdash	-	-	-	-		
1.5			(92)			11	_	_	-	-	130	82.8 (U)
-		ilE										
20 -	1	Ħ	96				-	-				
			(88)			11				-	129	91.5 (U)
ŧ	-						_	-	_	_		
25-			90 (80)			8		+	_		132	89.0 (U)
1111						_	-	-			101	0,10 (0)
Ę		Ц									-	
30 -		H	100			-	-	-	-	-		
Ŧ	1		(90)			- 10						
F	-					12	-	-	-	-	129	82.9 (U)
35 -	1	4	100			-						
E			100 (90)			13	-	-	-	-	126	117 (U)
Ę	1											
-						12	-	-	-	-	127	91.3 (U)
40-1		T	100								-	(0)
1			(64)			-	-	-	-	-		
F					607.0							
COM	PLET	по	ON DEI	PTH: 45.0'	587.0	U=Unco	onfine	rd be	P	Pocke	et Per	etrometer
	E: 6-1					Q=Unco		dated	- Te			

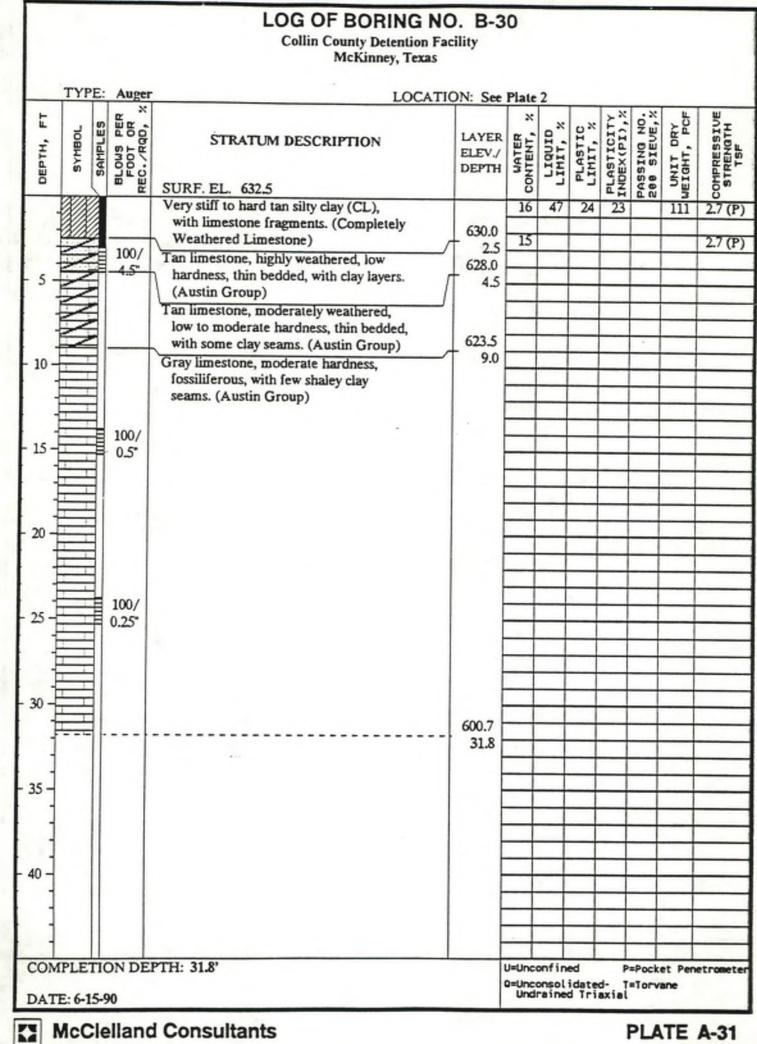


PLATE A-31

LOG OF BORING NO. B-31 Collin County Detention Facility McKinney, Texas

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	TYP	E:		and Rotary Wa	sh LOC/	ATION:	See 1	Plate	2					
	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	SURF. EL. 6		ELE	YER EV./ PTH	WATER CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
	2A				vn and tan silty clay (CL),			16						2.7 (P)
ł	Ø			calcareous p	articles (Residual Soil)		ł	18		-	-		-	2.7 (P)
ŧ	XX	4	87	Tan limesters	made and be well and	62	5.5							
	2		(65)		, moderately weathered, rate hardness, thin bedded,		4.0	16		_	-		120	35.3 (U
Ē	4				ay seams. (Austin Group)		t						100	0010 (0
Ē		4	94				-							
Ē	2		(76)				ł				-			
F			2	-steep fracture			8.5	12					128	90.0 (U)
F				Gray limestone	e, moderate hardness, with few shaley clay	1	1.0	-	-				_	
Ē	-	đ	96	seams. (Aust	in Group)		ł			-	-			
È	-		(84)	-steep fracture	at 12.0'		1							
F	-						ł		-					
F	-						ł		-	-				
			90 (82)											
	-		(02)				ł	14	-	_			123	37.9 (U)
	1						ŀ			-			100	51.5 (0.
-		╢	96				ļ							
	-		(90)				ŀ	-	-	_				
							t	12					127	105 (U)
	-					Ļ	F							
	1	╫	100			Ŧ	ŀ	-	-	-				
			(50)				t							
-	1		100 (93)				F							
1	1	T	(95)				ŀ	12	-	-			127	133 (U)
1			98				t							
			(96)				F							
1	-		00				ŀ	-		-			-	
1	-		98 (48)				È	12			_		127	87.8 (U)
1	1						F	_	_	_				
1	-						ŀ			-	-			
		╢	98				Ē							
1	-		(40)				ŀ		-	_		_		
1	-						ŀ							
1	PLE	TI	ON DE	PTH: 46.5'	DEPTH TO WATER: 27.	6			onfin					netromete
Ŧ	E: 6-	14-	90		DATE: 7-6-90		ľ	Und	raine	d Tri	axia	=Torv	ane	
I	E: 6-1	14-	90	d Consulta	DATE: 7-6-90	6		0=Unc	onsol	idate	axia	1	T=Torv	P=Pocket Per T=Torvane

Collin County Detention Facility McKinney, Texas

DEPTH, FT	SYMBOL.	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 629.5	LAYER ELEV./ DEPTH	E	LIQUID LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
			. Gray limestone, moderate hardness,	583.0			_				
-			fossiliferous, with few shaley clay seams. (Austin Group)	46.5			_				
50 -		- 1				-					
]					-			_	_		
-								_			
55 -						_					
-							_	-			
1						-	_	_		_	
60 -						_	-	_		_	
-											
1							-		-	-	
65 -							-	_		-	
-					_						
-											_
70 -							-	-		-	
-						-	-	_		_	
-											
75 -		1									
1						-	-	-	-	-	
-							-		-	_	_
80 -							\neg				
1										-	
35 -							-		_		
-											_
-								-		_	-
1											
			TH: 46.5' DEPTH TO WATER: 27.6		0=Unci Unci						trometer
DATE	E: 6-14-	90	DATE: 7-6-90		Und	rained	Tria	ixial			

McClelland Consultants

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PLATE A-32b

Collin County Detention Facility McKinney, Texas

DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 635.3	LAYER ELEV./ DEPTH	EN	LIMIT, %	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	XX	à		Very stiff to hard brown and tan silty	-	12			E H	E.O.	3	2.7 (I
	ØA			clay (CL), with limestone fragments	632.8							
-	2			(Residual Soil)	2.5	13						2.7 (1
-	~		100/	Tan limestone, highly weathered, low	630.7							
5 -	1	日	10.75*	hardness, thin bedded, with clay layers.	4.6			-				
-	1			(Austin Group)	628.2							
-		1I	-	Tan limestone, moderately weathered, low to moderate hardness, thin bedded,	7.1		-	-	-			
	1	11		with some clay seams. (Austin Group)							-	-
10 -	1	31		Gray limestone, moderate hardness,								
-	- 1	11		fossiliferous, with few shaley clay		1						
-	1			seams. (Austin Group)								
-	1	HE										
-	1	11		-tan, moderately weathered seam at 13.3'		_						
15 -	1	11		hertenitie laure 15 Char 15 Ct				-		-		
1	1			-bentonitic layer 15.5' to 15.8'								
1	1											
]	1	1										
20-	1	目	100/									
-	1	f	0.4*	÷								
+	-				1.1	_						
-	1						_					
+	-						-	-	-		_	
25 -	1							-	-	-	-	
Ē	1									-	-	
]	1									-		
1	-	Н	100/									
30 -		目.	0.25		605.2							
-					30.1	_	_			_		
-							-	-				
1					ł	-	-		-			
- 1						-	-	-	-	-	-	
35 -										-		
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]					[
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40 -					+		-		_	-		
-					ł				-	-		
-					ŀ	-			-		-	
-					ŀ	-	-	-	-	-	-	-
1					l l						-	
COM	PLE	TIC	ON DE	PTH: 30.1'		U=Unco	onfin	ed	P	=Pock	et Pen	etromet
	E: 6-1					0=Unce	nsol	idate d Tri	d- T	Torva	ane	

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Collin County Detention Facility McKinney, Texas

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DEPTH, FT		SAMPLES	BLOUS PER FOOT OR REC./RQD, X 10	STRATUM DESCRIPTION	LAY	ER V./	×	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
DEF	60	ŝ	REC.	SURF. EL. 618.7	DEP	TH	_	LLL	LIH	PLAS	PASS 200	UNI	COMPR
-				Very stiff to hard brown and light			14						2.7 (
-	444			brown silty clay (CL), with calcareous	616	5.5							
-	XX			particles (Residual Soil)		2.2	20						2.7 (
+	XX	4		Very stiff tan silty clay (CL), with	614								
5-			100/	limestone fragments. (Completely	4	1.2	18						2.7 (
-		8	3.6"	Weathered Limestone)									
-			5.0	Tan limestone, moderately weathered,	100	-							
-		łŀ	h	low to moderate hardness, thin bedded,	610								
+				with some clay seams. (Austin Group)	8	3.0							
10 -	1			-highly weathered 4.2' to 5.2'									_
4	-			Gray limestone, moderate hardness,		ļ							
4	1			fossiliferous, with few shaley clay		_ -							
4	1			seams. (Austin Group)			_						
4		目	100/			-							
15-	-	₽.	0.4"-		603		-	-	_				
1					15	2		_	_		_		
-					1.1					_	_		
-						ŀ		-			_		_
- 1						ŀ			-		_		_
20 -						H		-					
1						ŀ						_	_
1						H	-						
1						H					_		
- 1						H	-		-				
25 -						H		-		-			
1						H	\rightarrow	\rightarrow	-+	-+			
1						H			-	-+	-+		
1						H	-	-+	-+	\rightarrow	\rightarrow	-	
- 1						H			-	-			
30 -						F	\rightarrow	\rightarrow		\rightarrow	-+		
-						H	-	-	-	-			
1						H	-	-	-	-	-		
1						H		-		-			
. 1					1	ŀ	-	-	-	-	-	-+	_
35 -						H	-	-	-	-	-		
-						F				-			_
1						H	-+	-	-	-+	-		_
1						F	-	-	-	-	-	-+	
1						F	-	-	-	-	-	-	
40 -						F	-	-	-	-		-	
1						F	-		-		-	-+	
1						F	-	-	-	-		-+	
1						F	-	-	-	-	-		
1						F		-	-	-	-		
COM	PLET	10	N DEF	'TH: 15.2'		-	Unco	ofine	rd L		Pocke	t Pene	tere
DATE							=Unco	nsoli		- T=	Torva		

Collin County Detention Facility McKinney, Texas

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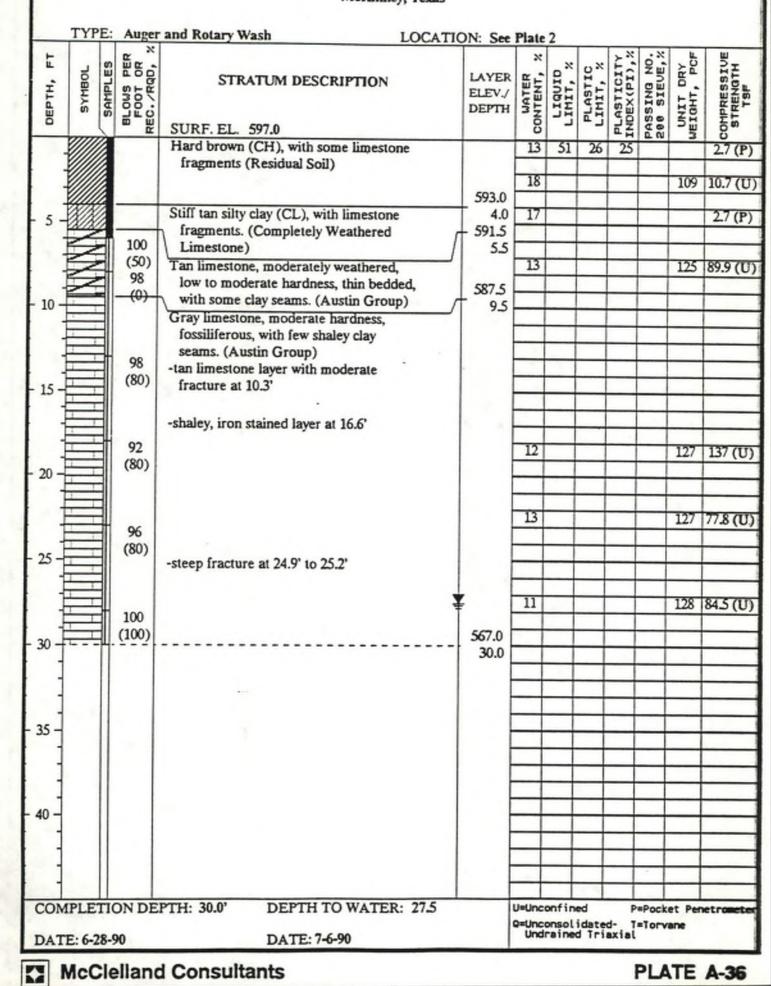
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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, 3	STRATUM DESCRIPTION SURF. EL. 614.2	E	AYER LEV./ DEPTH	CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
				Very stiff brown silty clay (CL), with	1	613.2	15						2.7 (
5 -			100/ 8.75*	limestone fragments (Residual Soil) Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	1	1.0 609.4 4.8							
10 -				Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group) -tan, moderately weathered layer 7.0' to 7.8' -shallow, iron stained fracture at 11.3'		4.0							
15-			100/ 0.3*		5	598.4 15.8							_
20 -													
25 -													
30 -													
1						E							
35 -													
40 -					•								
-													
СОМ	PLET	10	N DEF	'TH: 15.8'			=Unco	nsoli	-	- T=	Pocke	t Pene	tromet

Collin County Detention Facility McKinney, Texas



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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 588.2		LAYER ELEV./ DEPTH	WATER CONTENT, %	LIMIT, X	PLASTIC LIHIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-				Very stiff dark brown and brown clay			16						2.7 (
1				(CH), with some calcareous particles (Terrace Deposit)			17	_	-	_			2.7
+							10					_	
5-							18	-	-	-	-	-	2.7
							19						2.7
-				-light brown with some limestone			21		_				20
10				fragments below 8.0'				-	-	-	-	-	2.6
-													
-							-	-	-	_		_	
T				stiff to upper stiff halos 14.01									
15-				-stiff to very stiff below 14.0'			24	52	22	30			1.8
I					4			-	-	-	-	-	
Į					Ī								_
1							26	_	_	_	_		2.4.1
20							20	-	-	-	-	-	2.4 (
ł													
-							-		_	_	_	_	_
25-				-with sand below 24.0'			-	-	-	-	-	-	1.2 (
~	ļļļļ				4	562.2							
H	VAV	1 -		Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered	$\frac{1}{2}$	26.0	-	-	-	-	-		
Ē	~	0-		Limestone)	4	27.0		-	+	-	-	-	
30 -F	-		100/ 3.9"	Tan limestone, moderately weathered,	11	559.7							
-	-		3.9	low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	11	28.5	_	-	-	_			
Ē				Gray limestone, moderate hardness,		ł		-	-		-	-	
F	-			fossiliferous, with few shaley clay		1							
35-				seams. (Austin Group)		-	-		-	-			
F							-	-			-		_
E	1												
÷						ł	-	-	-	-	-		
10 년						ł		-	-			-	
Ŧ			100/										
E	_		0.6		1	544.7	-		-	-			
1						43.5							_
COM	PLET		N DEF	"TH: 43.5" DEPTH TO WATER: 16.6			U=Unco		-			t Pene	trom
ATE	: 6-1	0_0	0	DATE: 7-6-90		1	Undr	ained	Tria	xial	lorva	ne	

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYHBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 606.7		LAYER ELEV./ DEPTH	WATER CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH
			1.1	Very stiff brown clay (CH), with	T	605.2	31	_	_				2.7 (P
- 5 -			100/ 4.5*	calcareous particles (Residual Soil) Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	Ŧ	1.5 604.5 2.2 601.2	17						2.7 (P
- 10			100/ 0.7* 100/ 0.5-	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 2.2' to 3.0' Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		5.5							
25 -						21.0							
35 -													
40													
СОМ	PLE		ON DEI	PTH: 21.0'			Unco	nsol		- T	Pocke		etromet

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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	and Rotary Wash LOCAT STRATUM DESCRIPTION SURF. EL. 598.0	LAYE ELEV DEPT		×	LIMIT, %	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-				Very stiff dark brown and brown clay		1	6	58	26	32	-		2.7
				(CH) with some limestone and shell fragments (Terrace Deposit)			6	54	24	30			2.7
				-light brown below 4.5'			9	-					2.7
						E	8						2.7
-							-						
10 -				-with slickensided fissures 8.0' to 10.0'			3	-		_			2.7
15 -				-hard at 15.0'			5	-		27		100	
-								64	27	37		100	4.1
						E		-					
20 -				Tan limestone, moderately weathered,	578.0	_	1	-	-	-	_		2.7
-			90 (90)	low to moderate hardness, thin bedded, with some clay seams. (Austin Group)	577.0		,					112	33.8
25-			94 (86)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)									
111111			98 (98)			1	3					119	93.9
					¥	F		-			-		
Ŧ	-		98			1	4	-		_		117	125 (
15-	-		(90)				-	+			=	_	
ŧ						E	+						
f		Щ.		-bentonitic seam at 37.8'	560.0								
-04						F	-	-					
-						F	+	-					
-						F	-	-	-	1	-	_	
COM	IPLE	П	ON DEI	PTH: 38.0' DEPTH TO WATER: 31.2	-			ofine				et Per	etrom
AT	E: 6-2	0-9	0	DATE: 7-6-90		0	ndra	inec	1 Tria	axial	Torvi	ane	

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 582.4	LAYER ELEV., DEPTH	CONTEN	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
			-05	Very stiff dark brown and brown clay		19						2.7
				(CH), with some calcareous particles (Terrace Deposit)		20				_		2.7
5 -				 light brown with iron staining and some fine gravel below 4.5' 		19						2.7
				some line gravel below 4,5		19			_			2.1
10						21	_		_			2.1
- 10 -							_	_	_	_		-
-						-	-	_		_		-
15-				-stiff to very stiff below 15.0°	¥	23			_			13
20 -					J .	23						2.2
1 1 1 1							_	_			_	
25-						24						2.1
30 -				-with slickensided fissures below 30.0'							_	
				······································	-	37	_				_	1.5
-tt-					547.4				_	_	_	
35		T	97 (37)	Tan limestone, moderately weathered, low to moderate hardness, thin bedded,	35.0							
ł				with some clay seams. (Austin Group)	37.0	13					101	105
40-			98 (94)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		15				=	121	105
				-tan moderately weathered seams 37.0' to 39.0'				-		-	_	
				0.57.0		14		-		-	116	74.5
	IPLE			PTH: 54.0' DEPTH TO WATER: 14.9 DATE: 7-6-90		U=Unc Q=Unc Und		idate	d- T	=Pock		netro

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 582.4	LAYER ELEV./ DEPTH	E	LIMIT, X	PLASTIC LIMIT, %	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH
-		98 (98)	Gray limestone, moderate hardness,		-				_		
		98	fossiliferous, with few shaley clay seams. (Austin Group)		13					118	64.6 (U)
50 -		(98)			-		_	_	_		
				528.4	13					121	54.5 (U)
55 -				54.0	_			_	_		
					_					_	
60 -					-		_				
						_	-	-	_		
65 -							_	_	_	_	
-						_					
70 -					_	_					
-						-	-	_			
75 -											
-						_	_	_			
80 -	2				_						
-											
85 -							-		-		
-					_						
CON	APLETI	ON DE	PTH: 54.0' DEPTH TO WATER: 14.9	,		onfin					netrometer
DAT	E: 6-27-	90	DATE: 7-6-90		Q=Unc Und	raine	idate d Tri				_

Collin County Detention Facility McKinney, Texas

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DEPTH, F	SAMPLES	BLOWS PER FOOT OR REC./RQD, >	STRATUM DESCRIPTION SURF. EL. 582.2	LAYER ELEV./ DEPTH	E A	LIMIT, X	PLASTIC LIMIT, X	PLASTICIT INDEX(PI),	PASSING NO 200 SIEVE,	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-			Stiff dark brown and brown clay (CH),		28			H		3	1.9 (1
			with some calcareous particles (Terrace Deposit)		27	_					2.1 (1
- W			-very stiff below 2.0'					-			
5-					46	55	19	36	-	85	1.1 (1
				¥	21						1.5 (1
10 -			-light brown below 8.5'		21	_					2.0 (1
					24						1.8 (F
15-											
20 -			-with some shell fragments below 17.6'		25						13 (1
25 -					26	58	20	38	_	100	12(1
30 -			-with numerous calcareous particles below 27.6'		28	_					1.6 (F
				548.7	33			_			1.2 (F
		-	Very stiff tan silty clay (CL), with	33.5	22	-					2.7 (F
35		100/	limestone fragments. (Completely Weathered Limestone)	547.2	_						
K		10"	Tan limestone, moderately weathered,	544.2			-	-	-	_	
40			low to moderate hardness, thin bedded, with some clay seams. (Austin Group) -highly weathered 35.0' to 36.5'	38.0						_	
THH		100/	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		_	_				_	-
COMPLY		0.6"	DEDTU 22.01 DEDTU TO WATED. 2.4								
DATE: 6			PTH: 53.0' DEPTH TO WATER: 7.0 DATE: 6-22-90		Q=Unci Unci		idated	d- T	=Pock		etrome

			LOG OF BORING NO Collin County Detention Fa McKinney, Texas	cility	0						
	TYPE:	Auger	LOCATI	ON: See	Plate	2					
DEPTH, FT	SYMBOL	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	×	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
50			Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	529.2 53.0							
60											
65											
75			• 0								
85 -											
	PLETI		PTH: 53.0' DEPTH TO WATER: 7.0 DATE: 6-22-90			onfine				et Pena	etro

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Collin County Detention Facility McKinney, Texas

			Auger	LOCAT	ION: See	X	-		X	·×	L	E E
DEPTH, FI	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, 3	STRATUM DESCRIPTION SURF. EL. 589.4	LAYER ELEV./ DEPTH		LIMIT, %	PLASTIC LIMIT, 2	PLASTICITY INDEX(PI),	PASSING NO 200 SIEVE,	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-				Very stiff to hard dark brown and		18			-			2.7 (1
-				brown clay (CH), with some shell fragments and calcareous particles (Terrace Deposit)		17	53	21	32			2.7 (
5 -				(Terrate Deposit)		18	_					2.7 (
tut						19						2.7 (1
-	<u>III</u>				580.4	21					-	2.7 (1
o proprieta de				Stiff light brown silty clay (CL), with some fine gravel and shell fragments (Terrace Deposit)	9.0			_				
5				-tan with some limestone fragments below 14.0'	-	26	_	_		_		1.3 (1
and and and and and and						23	46	23	23		102	1.1 (1
dutint					565.4	- 20			_			
tututut				Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	24.0	28						1.9 (1
		-	_	Tan limestone, moderately weathered,	559.9	24	_	_	_	_		2.7 (1
LINEALA			100/ 3.75*	low to moderate hardness, thin bedded, with some clay seams. (Austin Group)		_		_	_	_	_	
THE	2	-		-highly weathered 29.5' to 31.5' Gray limestone, moderate hardness,	555.7 33.7	_	-	-			_	
	-			fossiliferous, with few shaley clay seams. (Austin Group)			-	_	_	-		
E									-			
THE	-					-	-			-	_	
THT	1						-			-	_	
TH	-					_				\neg	-	
OM	PLET		ON DE	PTH: 48.7' DEPTH TO WATER: 15.7		U=Unc						etrome
ATE	: 6-1	8-9	ю	DATE: 7-6-90		Q=Unc Und	raine			TOPV	ane	

			LOG OF BORING P Collin County Detention McKinney, Texas	Facility	1						
	TYP	E: Auger	LOCA	TION: See	Plate	2					
DEPTH, FT		SAMPLES BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 589.4	LAYER ELEV./ DEPTH	×	LIQUID LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	
								- H	ΕN	3	
-		100/ - 0.5-	Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)	540.7							
- 50 -											
- 55 -										-	
]											
-					_						
- 60 -											
-											
1					_					-	
65 -											
-							_				_
							_		_		_
70 -											_
-						_					
75 -									_		
]											
-						-	-	-			
80 -						_	-	_	_		
-						_			_		_
1									_		_
85 -											_
-								-		_	_
1								_	_	_	
COM	PLET	TION DE	PTH: 48.7' DEPTH TO WATER: 15.7	_		onfin				et Pen	etr
DAT	E: 6-1	8-90	DATE: 7-6-90		Q=Und	raine	d Tri	axial	-1014	ane	

Collin County Detention Facility McKinney, Texas

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DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, ;	STRATUM DESCRIPTION SURF. EL. 584.8	LAYER ELEV./ DEPTH	WATE	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH
-				Very stiff dark brown and brown clay		18				_	_	2.7 (P
-				(CH), with some calcareous particles and trace of sand (Terrace Deposit)		19	-		_			2.7 (P
-						17						
5 -												2.7 (P
+						19						2.7 (P
						21						2.7 (P
5-1-1				-stiff to very stiff, light brown below 15.0'	Ĭ	24	-		_	_		1.5 (P
20						25						1.8 (P
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						26			_			2.4 (P
tubulutu tu					552.8	22						2.7 (P
u ku ko			100 (0)	Tan limestone, moderately weathered, low to moderately hardness, thin	32.0		-	-		_		
5-	5		88 (56)	bedded, with some clay seams. (Austin							_	
			()	Group) -highly weathered 32.0' to 33.0'		17				-	111	28.3 (1
ł		-	94	-moderate to steep, iron stained fracture	546.8	15						71.3 (1
			(78)	at 32.0' -occasional gray limestone seams below 36.0'							_	
F					-		-			-		
E	1	T	94			12					11/	40.0 27
OM	PLE	TIC	(78) ON DE	PTH: 53.0' DEPTH TO WATER: 14.0	_	13 U=Unc	onfin	ed	P	=Pock		49.8 (L
	E: 6-2			DATE: 7-6-90		Q=Unc Und	onsol	idate d Tri	d- T axial	=Torv	ane	

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DEPTH, FT	SAMPLES	BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 584.8	LAYER ELEV./ DEPTH	WATER CONTENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
			Gray limestone, moderate hardness, fossiliferous, with few shaley clay								
- 50 -		88 (76)	seams. (Austin Group) -shallow, iron stained fracture at 42.0'		13					116	82.7 (1
30-					_				_		
-		•••••		531.8	-						
55 -						_			_	_	
						_	_	_	-		
60 -						_	_				
-					_	_					
65 -						_		-	_	_	
-		2					_				
70 -					_		_	_	_	_	
]					_	-	-	-		_	
75 -					_						
-						-			_	_	
80 -					_		_	_	_		
-					=	-	_		-		
85 -											
					_						
COM	PLETI	ON DE	PTH: 53.0' DEPTH TO WATER: 14.0		U=Unc						etrome
DAT	E: 6-27-	90	DATE: 7-6-90		Q=Unc Und	raine	d Tri	axial	-1014	ane	

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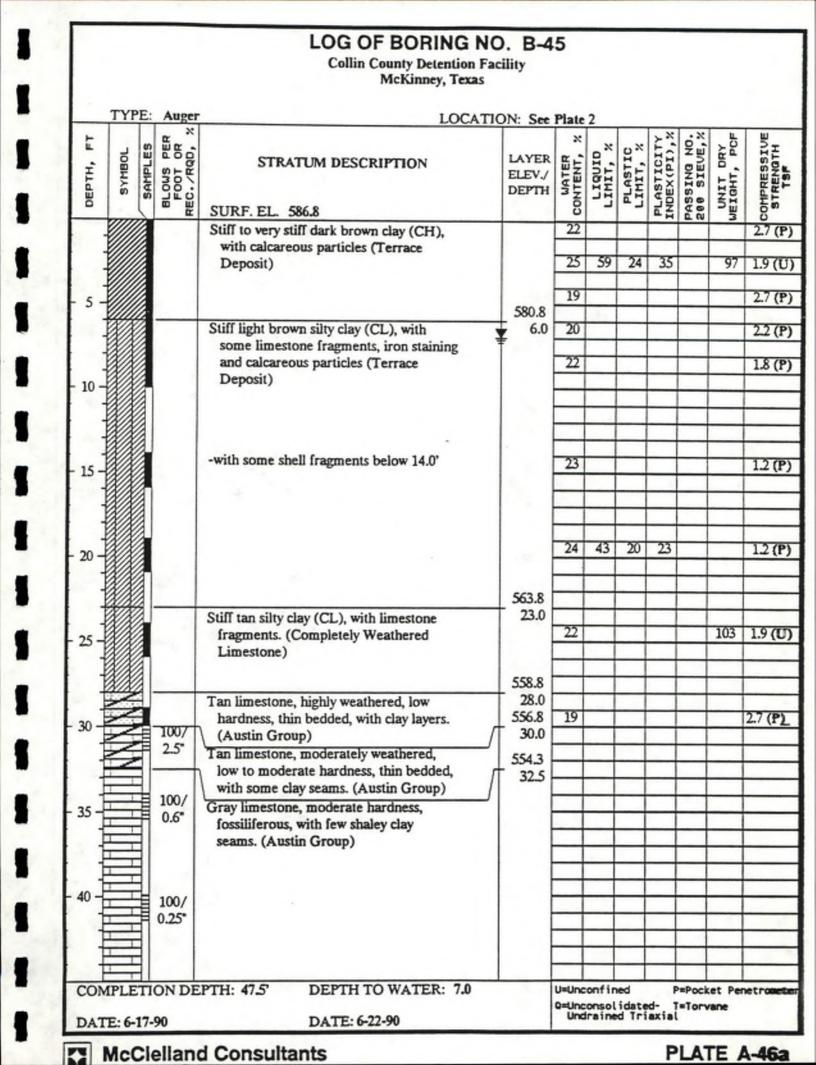
DEPTH, FT	SYHBOL	SAMPLES	PLOWS PER FOOT OR REC./RQD, X	and Rotary Wash LOCATI	LAYER ELEV./ DEPTH	ATER ENT, 2	LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE, X	UNIT DRY WEIGHT, PCF	COMPRESSIVE
-	7///		<u></u>	SURF. EL. 583.3 Very stiff dark brown and brown clay		22		_	Ē	10	3	270
				(CH), with some calcareous particles (Terrace Deposit)		25						2.0
5-			100	-stiff, light brown below 4.0'		23		-			_	1.9
-			- 94			21						2.1
					¥	23						15
10 -							_	_		_		
							_					
15 -						26						12
-						20				_		1.21
and the second s												
20 -				-firm below 20.0'		26					_	0.9 (
the state					650.0							
25				Tan limestone, highly weathered, low	558.3 25.0	19	_					
4-1	1	11-	100	hardness, thin bedded, with clay layers. (Austin Group)	555.8							
30 -			(75) 98	Tan limestone, moderately weathered, low to moderate hardness, thin bedded,		16					117	73.3 (
F	4	-	(74)	with some clay seams. (Austin Group) -moderate fracture at 29.5'	552.3 31.0		-					
			98	-gray limestone layer 30.0' to 30.7' -moderate fracture at 31.0'		13					126	114 (
5-1			(68)	Gray limestone, moderate hardness, fossiliferous, with few shaley clay							-	
di di				seams. (Austin Group) -tan limestone layer 34.0' to 34.5'		_						
40-12		H	96	-tan limestone layer 36.6' to 36.9'					-			
			(92)			15			_		117	53.6 (
THE P						12					121	92.4 (
COM	PLE	ПС	ON DEP	PTH: 49.0' DEPTH TO WATER: 7.8		U=Unco	onfine	ed be	P	Pocke	et Per	etrom
	E: 6-2	1.0		DATE: 7-6-90		0=Unco Undr	nsoli	dated	- T	Torva	ane	

			Collin Co	BORING NO. B unty Detention Facility AcKinney, Texas	-43						
	TYP	E: Au	er and Rotary Wash	LOCATION: S	ee Plate	2					
DEPTH, FT	SYMBOL	BLOWS PER FOOT OR	STRATUM DESCRIP		ER V./	LIQUID LIMIT, %	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEVE,X	UNIT DRY WEIGHT, PCF	
	1	9		rdness.				Ψ.H	ΕN	3	+
	E.	(92) fossiliferous, with few shaley	clay		_		_	_		
		1	seams. (Austin Group)	534					-	117	46
- 50 -	-			49	0.0						
				10	-				-		-
	-	11							_		
	1				-	-			-		-
- 55 -]										
	1	11				_	_				
	1		· · · · ·								
- 60 -	-					_		_			
	1										-
-	{								_	_	
- 65 -	1						_				-
-											
-							-	-			-
-											
- 70 -								-	-		-
-											
-						_	_	-	-		
- 75 -											
-											-
-											_
80 -						-		-	-	_	-
1	1.1										
-						-	-	-	-		-
85 -											
-						_	-	-	-	_	_
1											-
]											_
CON	APLE	FION I	DEPTH: 49.0' DEPTH TO	WATER: 7.8	U=Uno	onfin	ed	P	=Pock	et Per	net
		1-90	DATE: 7-6-9		Q=Und	onsol	idate d Tri	d- Ta			

Collin County Detention Facility McKinney, Texas

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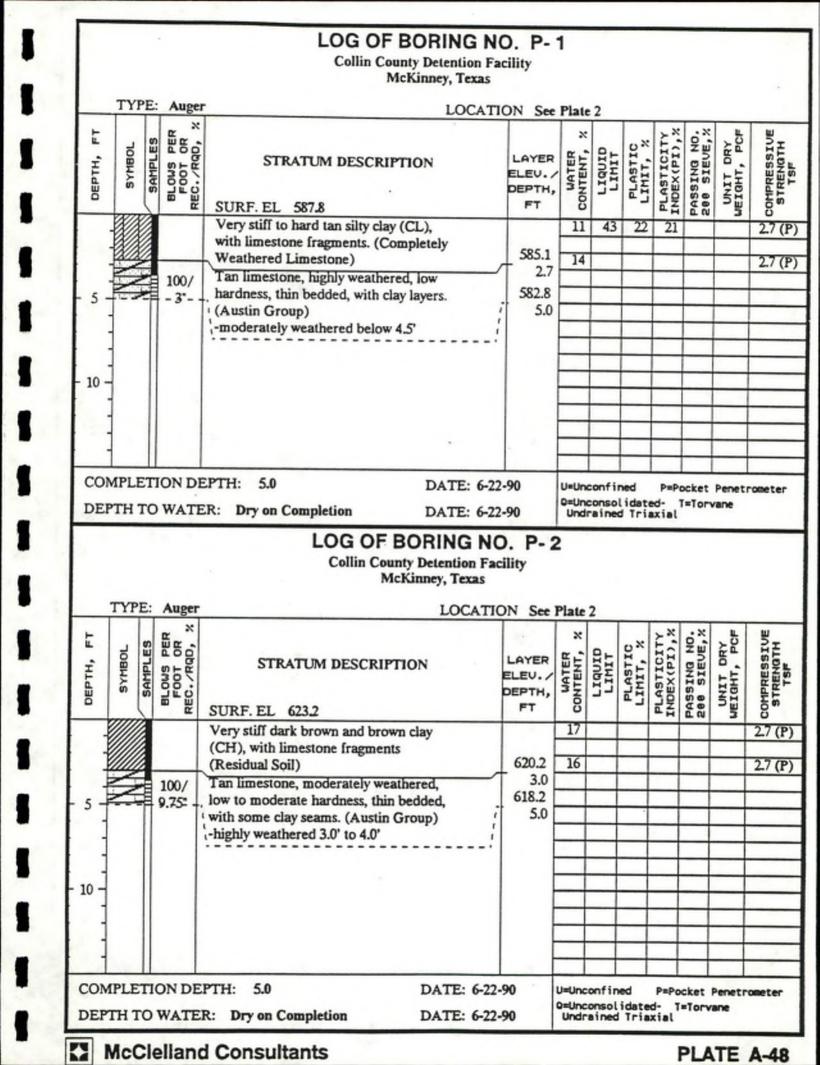
DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, >	STRATUM DESCRIPTION SURF. EL. 584.5	LAYER ELEV./ DEPTH	CONTEN	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	COMPRESSIVE
	<i>\///</i>			Very stiff dark brown clay (CH), with	583.0	21						2.5 (F
	-60	Ő.		calcareous particles (Residual Soil)	1.5	19						2.7 (F
	12/2			Very stiff tan silty clay (CL), with limestone fragments. (Completely		17	_	-				2.7 (1
5.				Weathered Limestone)	579.0	23						2.7 (1
5.	14/2	2		Tan limestone, highly weathered, low	5.5							
	-		100/	hardness, thin bedded, with clay layers.	577.0	16						2.7 (F
	1	3	2.9"	(Austin Group)	7.5							
		E		Tan limestone, moderately weathered,		-				_		
10 -				low to moderate hardness, thin bedded,	¥		-	_				
				with some clay seams. (Austin Group)								
	E	31			571.5							
	1			Gray limestone, moderate hardness,	13.0	_						
15 -	-			fossiliferous, with few shaley clay seams. (Austin Group)								
	1			sound. (rsubur Oroup)	567.6				-			
	\mathbf{z}	31		Tan limestone, moderately weathered,	16.9							
				low to moderate hardness, thin bedded,								
20 -				with some clay seams. (Austin Group)								
-					-				_		_	
									_			-
	X	31			5000		-		-			
25	\geq	3		Crew limestone mederate hardness	560.0							
25 -	T	ЗI		Gray limestone, moderate hardness, fossiliferous, with few shaley clay	24.5							
		=1		seams. (Austin Group)								
	-	긢	100/						_		_	
		-1	0.6"									-
30 -	÷	31					-	-				
		ΞI										-
		=										
	÷	ΞI										
35 -	-											
	1	E										
	1											
	1	H	100/									
40 -		1	0.75		544.5							
					40.0							
	1											
-				ber and the second s								
CO	MPLE	TI	ON DE	PTH: 40.0' DEPTH TO WATER: 10.3			onfin			Pepoci	tet Pe	netrome
	TE: 6			DATE: 7-6-90		Q=Unx	inain	idate	iaxia	TeTor	vane	

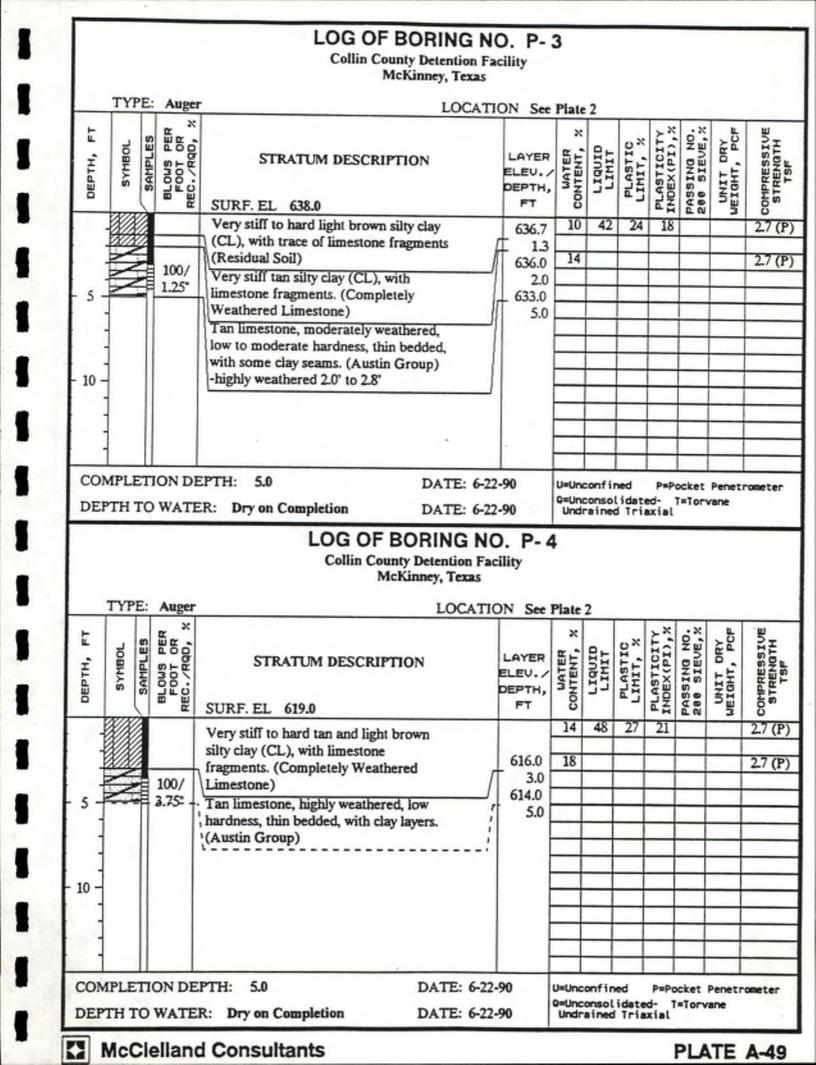


			LOG OF BORI Collin County Dete McKinney	ntion Facili		5						
	TYPI	E: Auger		LOCATION	: See	Plate	2					
DEPTH, FT		SAMPLES BLOWS PER FOOT OR REC./RQD, X	STRATUM DESCRIPTION SURF. EL. 586.8	L	AYER ELEV./ DEPTH	ATER ENT, X	LIMIT, X	PLASTIC LIMIT, X	PLASTICITY INDEX(PI),%	PASSING NO. 200 SIEUE,%	UNIT DRY WEIGHT, PCF	COMPDEGETHE
			Gray limestone, moderate hardness, fossiliferous, with few shaley clay seams. (Austin Group)		539.3 47.5					_		
- 50 -										_		
- 55 -												
- 60 -												
- 65 -												
- 70 -												
- 75 -									_	_		
80 -								_				_
85 -												
СОМ	PLET	TION DE	PTH: 47.5' DEPTH TO WATER	: 7.0		U=Unc	onfin	ed		=Pock	et Pen	etr
DAT			DATE: 6-22-90			Q=Unc	onsol	idate d Tri	d- T axial			

Collin County Detention Facility McKinney, Texas

-	1		Auger	LOCATIO	DN: Se		-	_				
DEPTH, FT	SYMBOL	SAMPLES	BLOWS PER FOOT OR REC./RQD, %	STRATUM DESCRIPTION SURF. EL. 589.8	LAYE ELEV DEPT		N	PLASTIC LIMIT, X	PLASTICITY INDEX(PI), >	PASSING NO. 200 SIEUE, >	UNIT DRY	COMPRESSIVE STRENGTH
-				Very stiff brown clay (CH), with	507	16		23	27			2.7 (P
			100	calcareous nodules (Residual Soil) Very stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	587.1 2. 585.1 4.	0 19		-				2.7 (P
			(0) 94	Tan limestone, moderately weathered, low to moderate hardness, thin bedded, with some clay seams. (Austin Group)								
10 -			(70)	-gray limestone seams at 10.5' and 11.6'		14					123	44.4 (1
-		1		Gray limestone, moderate hardness,	577.8					_		
15-			98 (94)	fossiliferous, with few shaley clay seams. (Austin Group) -moderate, iron stained fracture at 14.5'		14		_		_	121	79.9 (U
			98			E		_				
20 -			(92)	-steep, iron stained fracture at 20.8'		13					125	95.6 (T
			96	steep, non stanted fracture at 20.0		_		_		_		
25-			(96)			13		_			125	80.8 (U
11111			100 (100)		559.8	14					102	82.1 (U
30 -		-	1007		30.0		_				125	02.1 (L
35 -							_	_	-	_		
-							_		_			
40 -							_					
-							_				_	
-	DI			PTLL 20.01								
DATI				PTH: 30.0'		Q=Und	onfin	idate	d- T			netromet

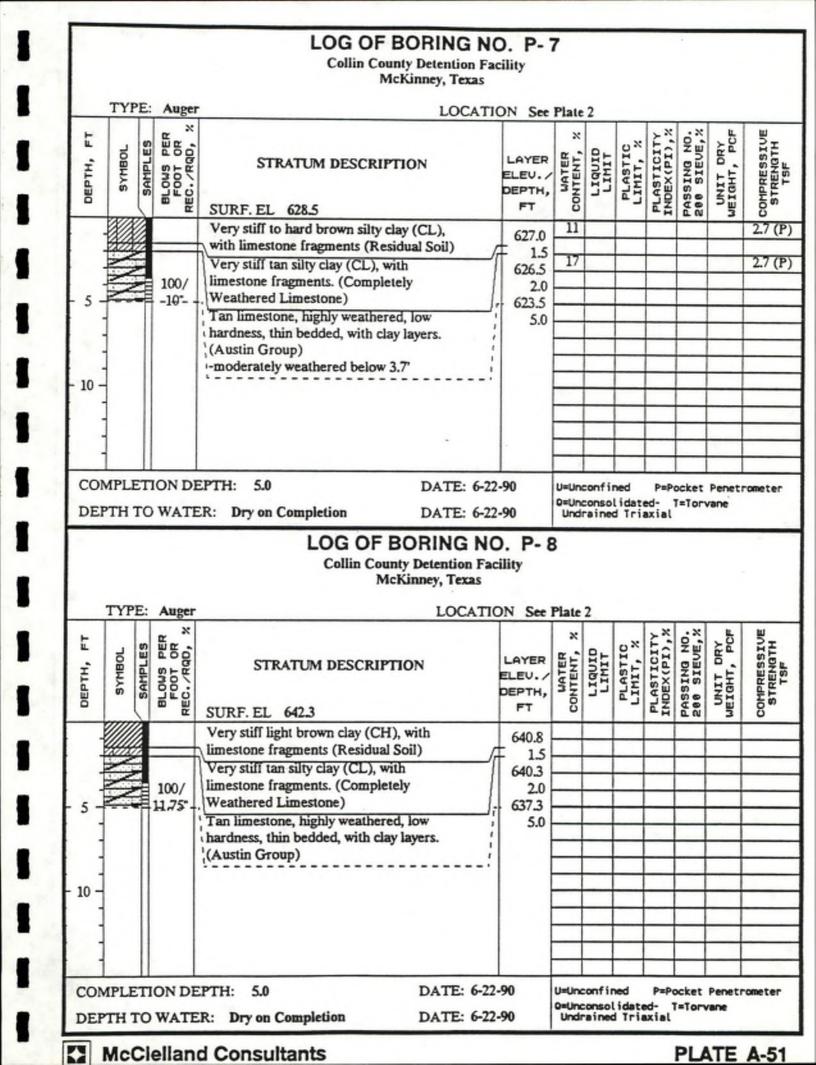


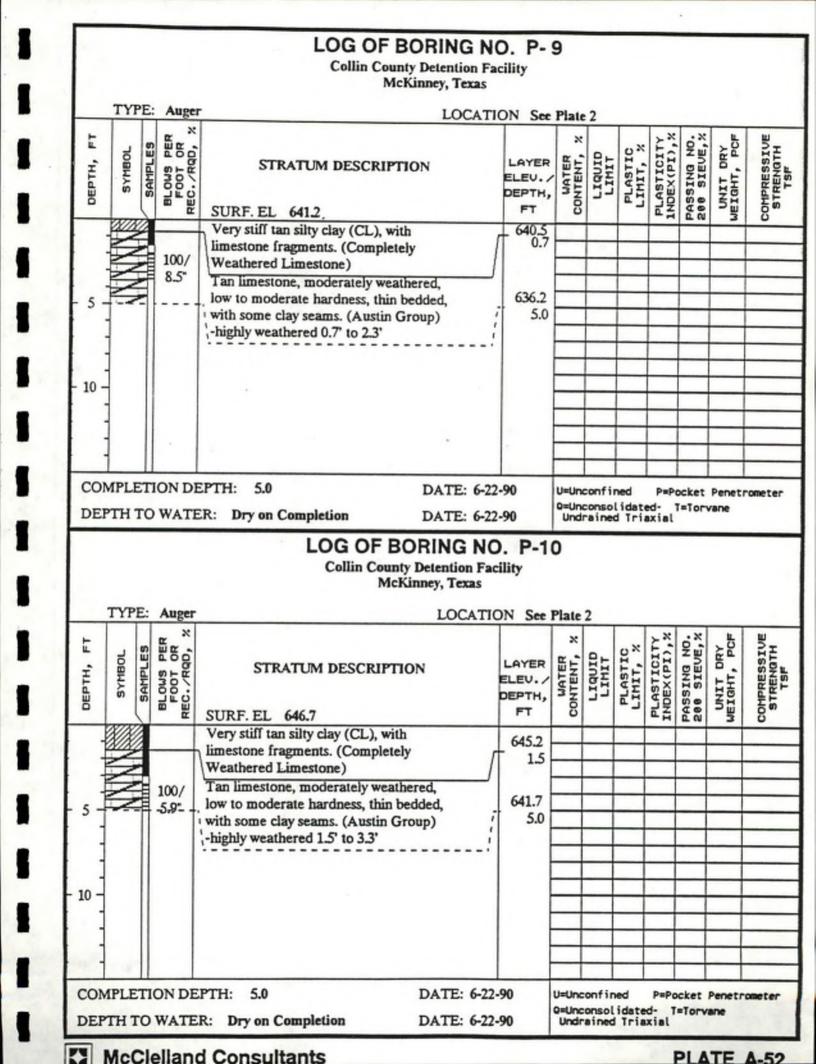


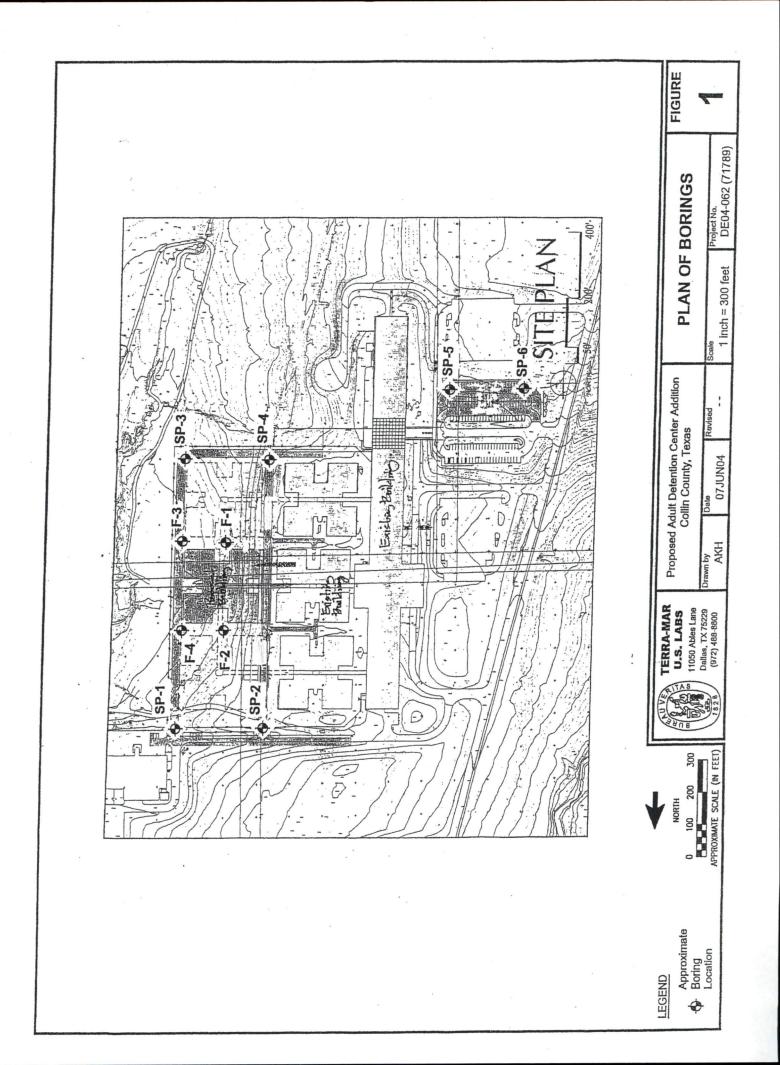
			LOG OF BORING N Collin County Detention Fa McKinney, Texas		5						
Т	YPE: A	uger	LOCAT	ION See	Plate	2					
DEPTH, FT	SAMPLES BLOWS PER	FOOT OR REC., RQD, X	STRATUM DESCRIPTION SURF. EL 622.5	LAYER ELEV., DEPTH, FT	E E		PLASTIC LIMIT, %	PLASTICITY INDEX(PI),%	PASSING NO.	UNIT DRY WEIGHT, PCF	COMPRESSIVE
			Stiff tan silty clay (CL), with limestone fragments. (Completely Weathered Limestone)	619.5	15						2.7
5	the second se)0/ _5= -	Tan limestone, highly weathered, low	3.0 617.5 5.0							
10 -											
-											
COMP			PTH: 5.0 DATE: 6-2 R: Dry on Completion DATE: 6-2 LOG OF BORING N	2-90	Q=Un Und	confi conso raine	lidate d Tria	ed-		Penet	
DEPTH	н то w.	ATE	R: Dry on Completion DATE: 6-2 LOG OF BORING N Collin County Detention Fa McKinney, Texas	2-90 O. P- (cility	e=Un Und	conso	lidate	ed-			
DEPTH	H TO W	ate	R: Dry on Completion DATE: 6-2 LOG OF BORING N Collin County Detention Fa	2-90 O. P- (cility	Plate × 100	conso	lidate	ed-	NO.		
	H TO W	are non longer	R: Dry on Completion DATE: 6-2 LOG OF BORING N Collin County Detention Fa McKinney, Texas LOCATI STRATUM DESCRIPTION SURF. EL 621.8 Very stiff to hard brown clay (CH), with limestone fragments (Residual Soil)	2-90 O. P- cility ON See LAYER ELEU./ DEPTH, FT 620.3 7 1.5	Plate	2	UN CONTRACTOR	ed- axial	T=Tor	/ane	COMPRESSIVE
	H TO W	ATE	R: Dry on Completion DATE: 6-2 LOG OF BORING N Collin County Detention Fa McKinney, Texas LOCATI STRATUM DESCRIPTION SURF. EL 621.8 Very stiff to hard brown clay (CH),	2-90 O. P- cility ON See LAYER ELEU./ DEPTH, FT 620.3	Plate Nontext, x 12	2	UN CONTRACTOR	ed- axial	NO.		2.7 (2.7 COMPRESSIVE

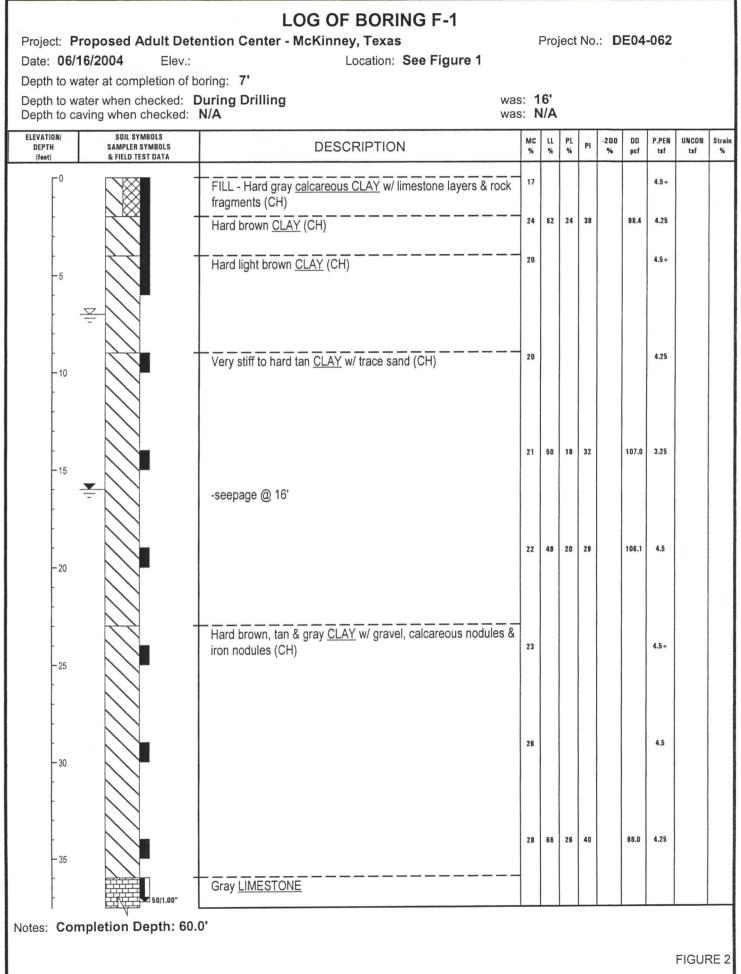
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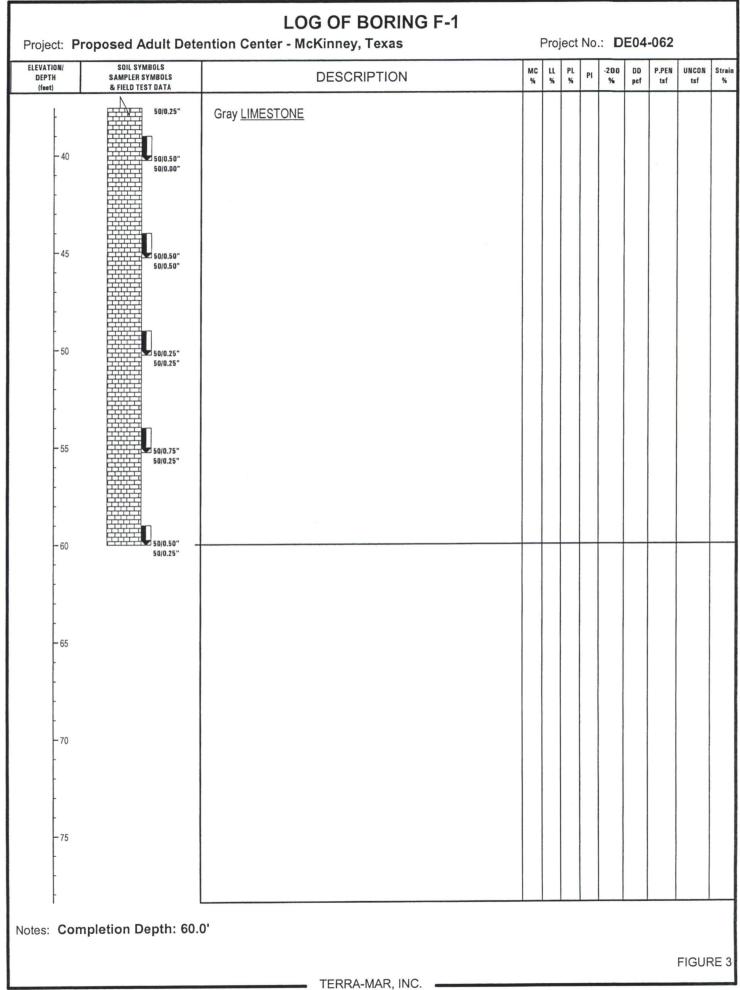
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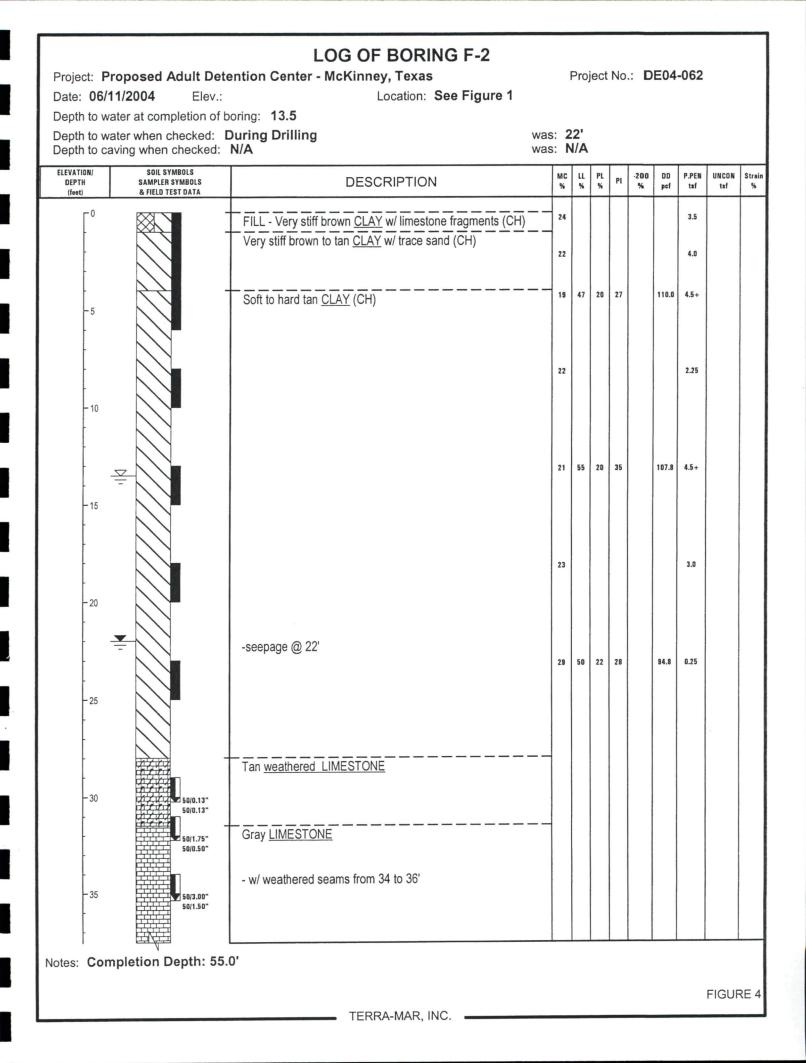








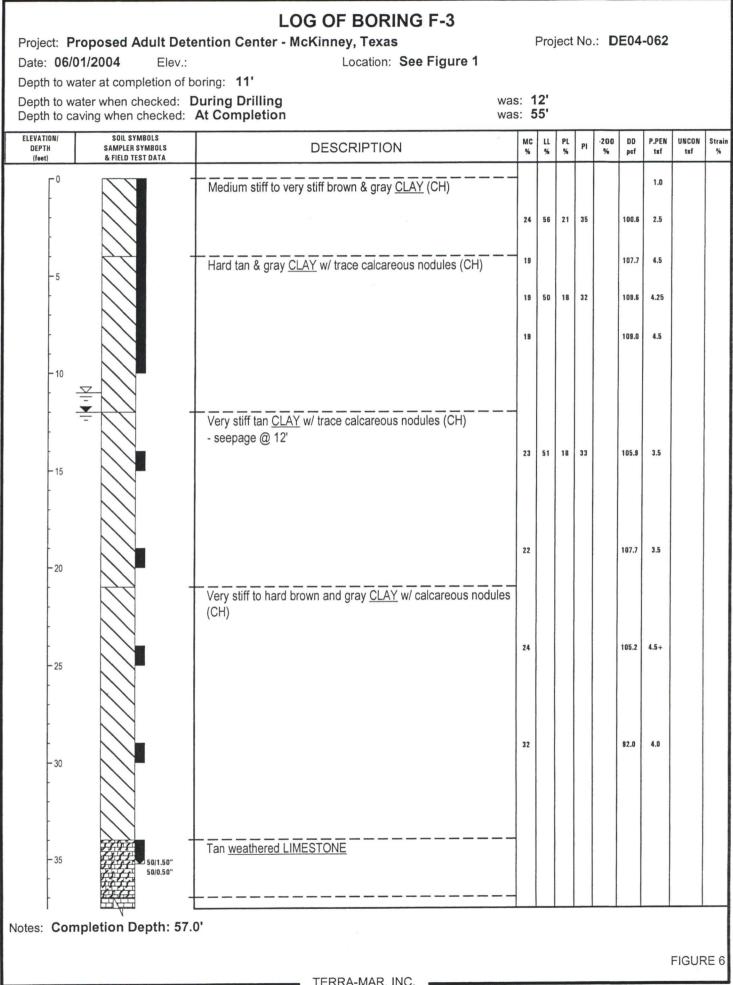




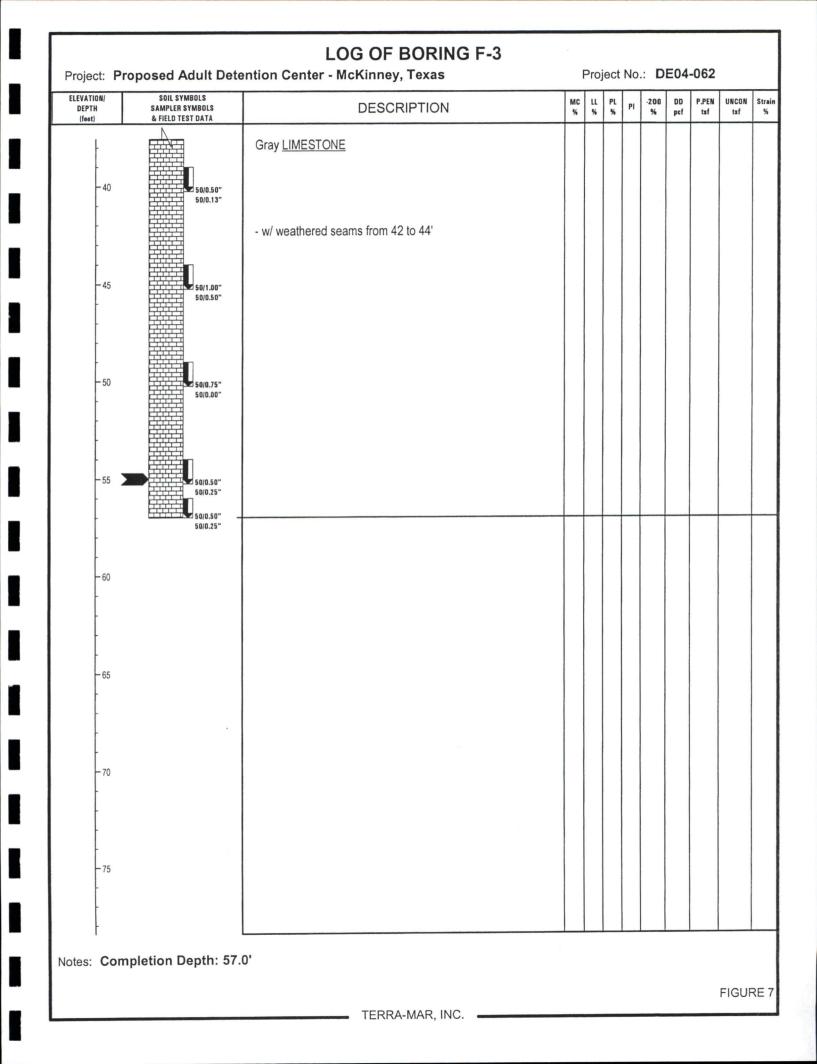
LOG OF BORING F-2 Project: Proposed Adult Detention Center - McKinney, Texas Project No.: DE04-062 ELEVATION SOIL SYMBOLS														
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS Sampler Symbols & Field Test Data	DESCRIPTION	MC %	LL %	PL %	PI	·200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %			
- 40	50/0.25" 50/0.00"	Gray <u>LIMESTONE</u>												
- - 45 - -	50/0.13" 50/0.13"													
- 50	50/0.50" 50/0.25"													
- 55 - -	50/0.25" 50/0.25"													
- 60														
- 65 - - -														
- 70														
- 75 -														
Notes: Completion Depth: 55.0' FIGURE 5														
		TERRA-MAR, INC.				_								

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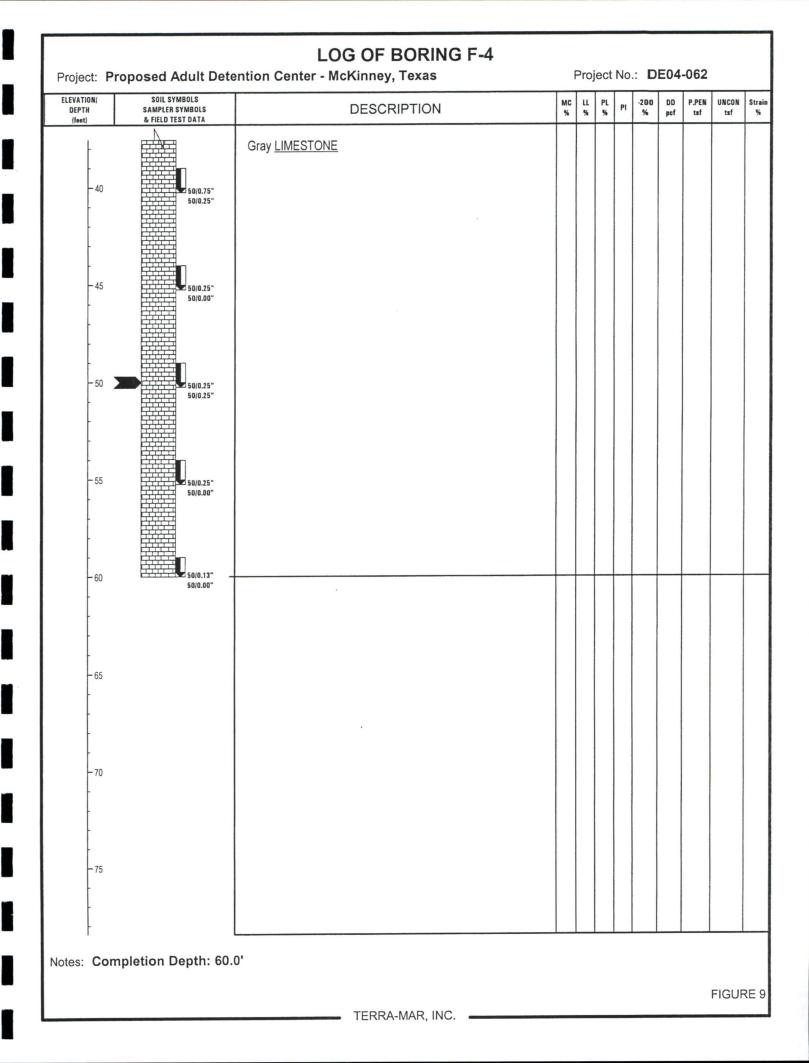
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TERRA-MAR, INC.



epth to wa epth to ca	ater when checked: wing when checked:	During Drilling At Completion	was: was:								
LEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	·200 %	DD pcf	P.PEN tsf	UNCON tsf	
٢°		Hard brown <u>CLAY</u> (CH)	18						4.5+		
ŀ			19	53	20	33		102.8	4.5+		
[Very stiff to hard reddish brown to brown <u>CLAY</u> (CH)							4.5+		
-5			18						4.5+		
-			19	53	20	33		104.5	4.0		
- 10											
	<u>₹</u>										
-		Very stiff light reddish brown <u>CLAY</u> (CH)	24						3.0		
- 15		Very suin light reduish brown <u>CLAT</u> (Ch)									
	₹	-seepage @ 17'									
- 20		Very stiff tan <u>CLAY</u> w/ calcareous seams (CH)	25						2.5		
-											
- 25		Very stiff brown to reddish brown <u>CLAY</u> w/ calcareous nodul (CH)	es 29	72	23	49		95.4	3.25		
-											
ŗ			27						3.0		
- 30 -											
ŀ											
- - 35	50/0.75"	Tan weathered LIMESTONE									
-											



Date: Depth	05/27/2 to water	004 Elev.: at completion of bo					ect	No.	: D	E04-	-062		
Depth Depth	to water to caving	when checked: D when checked: I	uring Drilling N/A	was was	: D : N	Dry I/A							
ELEVATIO DEPTH (feet)		SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION		MC %	11 %	PL %	PI	·200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
[-0		Very stiff brown <u>CLAY</u> (CH)								3.5		
	-	\rightarrow	Very stiff tan <u>calcareous CLAY</u> (CH)								4.0		
											4.0		
	-5												
	-												
	- 10												
	-												
	- 15												
	-												
	-												
	- 20												
	-												
	- - 25												
	-												
	-												
	- 30												
	- 35 -												
Notes:	Comple	etion Depth: 5.0				<u> </u>	<u> </u>	<u> </u>					<u> </u>
											F	IGUR	E 10
	TERRA-MAR, INC.												

Date: Depth Depth	: 05/27/2004 El h to water at completion h to water when checke	d: During Drilling	was	s: [Dry		t No	.: D)E04	-062		
ELEVAT		DESCRIPTION	was	P.PEN	P.PEN UNCON Strain tsf tsf %							
(feet		FILL - Very stiff tan,gray & brown <u>CLAY</u> w/ limestone fragments, organics & iron stains (CH) Tan <u>severely weathered LIMESTONE</u>		%	%	%		%	pef	3.5	tsf	74
Notes:	Completion Depth:	5.0'								F	IGURE	= 11
		TERRA-MAR, INC.								F.	GURE	- ''

		oposed Adult Dete 7/2004 Elev.:	LOG OF BORING SP-3 ention Center - McKinney, Texas Location: See Figure 1		Pro	ject	No	: D	E04	-062		
		ter at completion of b	oring: Dry	Г	ישר							
Depth	to ca	ter when checked: C ving when checked:		s: [s:]	N/A							
ELEVATI DEPTH (feet)	н	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	·200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
		500.50"	Very stiff tan & gray <u>calcareous CLAY</u> w/ limestone fragments (CH) Tan <u>weathered LIMESTONE</u>	-						2.75		
	-5 -10 -10 -15 -20 -25 -25 -30 -35 -35	50/0.50" 50/0.13"										
Notes:	Com	pletion Depth: 5.0				<u> </u>						_
										F	IGURE	E 12
			TERRA-MAR, INC.									

			LOG OF BORING SP-4 ention Center - McKinney, Texas		Proj	ject	No.	: D	E04-	062		
		7/2004 Elev.:	Location: See Figure 1									
		ter at completion of b ter when checked: C		s: C	Drv							
Depth	to cav	ving when checked:		s: N	N/A							
ELEVATIO DEPTH (feet)		SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION	MC %	LL %	PL %	PI	·200 %	DD pcf	P.PEN tsf	UNCON tsf	Strain %
	0		FILL - Brown <u>CLAY</u> w/ limestone fragments & organics (CH)							2.75		
	-		Very stiff brown to tan <u>CLAY</u> w/ tan limestone layers & iron stains (CH)							2.75		
	-5		Tan severely weathered LIMESTONE									
-	- - 20 - -											
	- 25 - - -											
	- 30 - - - -							÷				
	- 35 -											
Notes:	Notes: Completion Depth: 5.0'											Ξ 13

Example Set product DESCRIPTION No No <th<< th=""><th>Date: 0 Depth to Depth to</th><th>5/27/2004 Elev.: b water at completion of b b water when checked:</th><th>During Drilling</th><th>was</th><th>: C</th><th>Dry</th><th>ect</th><th>No.</th><th>: D</th><th>E04</th><th>-062</th><th></th><th></th></th<<>	Date: 0 Depth to Depth to	5/27/2004 Elev.: b water at completion of b b water when checked:	During Drilling	was	: C	Dry	ect	No.	: D	E04	-062		
10 Hard brown CLAY w/ sand & calcareous nodules (CH) 1 43.4 50ft brown CLAY w/ limestone fragments (CH) 1 1 13 10 Tan weathered LIMESTONE 1 1 1 10 1 1 1 1 1 10 1 1 1 1 1 1 10 1 1 1 1 1 1 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ELEVATION/ DEPTH	SOIL SYMBOLS SAMPLER SYMBOLS				Strain %							
3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Soft brown CLAY w/ limestone fragments (CH)	·									
		5 000.5" 0 5 0											
	Notes: C	Notes: Completion Depth: 5.0'											

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LOG OF BORING SP-6 Project: Proposed Adult Detention Center - McKinney, Texas Project No.: DE04-062 Date: 05/27/2004 Elev.: Location: See Figure 1 Depth to water at completion of boring: Dry Dry													
Depth to w	ater at completion of b ater when checked: I aving when checked:	During Drilling	was was	: C : N)ry I/A								
ELEVATION/ DEPTH (feet)	SOIL SYMBOLS SAMPLER SYMBOLS & FIELD TEST DATA	DESCRIPTION		UNCON tsf	Strain %								
		Hard brown <u>CLAY</u> (CH) Hard tan <u>calcareous CLAY</u> (CH) Tan <u>weathered LIMESTONE</u>	·							4.5+ 4.5+			
-5	50/1.25" - 50/0.50"												
- 10													
- 15 - - -													
- 20 - - -													
- 25													
- 30 - -													
- 35 -	nulation Dorth: 50												
Notes: Completion Depth: 5.0' FIGURE 15 TERRA-MAR, INC.											E 15		