





**Terracon**

**EXPLORATION LOG**

SHEET 1 OF 3

START DATE 11/23/11

END DATE 11/23/11

JOB DESCRIPTION Project NEON Phase 1 Final Design

LOCATION Southbound MLK North of Oakey Blvd.

BORING B-11-019

PROJECT No. 64115029

GROUND ELEV. 2048.2 ft. (NAVD 88)

HAMMER DROP SYSTEM Auto Hammer

STATION MS 774+02.96

OFFSET LT 79.75'

ENGINEER REE

EQUIPMENT Diedrich 120

OPERATOR Roderick Easton

DRILLING METHOD 3 1/4 ID HSA

BACKFILLED Yes DATE 11/23/11

GROUNDWATER LEVEL		
DATE	DEPTH (ft)	ELEV. (ft)
12/6/2011	11.4	2036.8

ELEV. (ft)	DEPTH (ft)	SAMPLE		BLOW COUNT			LAB TESTS	USCS Group	MATERIAL DESCRIPTION	REMARKS
		NO.	TYPE	6 inch Increments	Last 1 foot	Percent Recov'd				
	1.00							FILL	1.00 FILL - SILTY GRAVEL WITH SOME SAND, light brown, dry, fine to coarse grained, sub-rounded to sub-angular	Pocket Penetrometer (pp) results in TSF Bag sample from 1' to 4'
	2.00							CL-ML	2.00 SANDY SILTY CLAY WITH GRAVEL, light brown, low plasticity, damp, stiff	
	3.00		BS					CL	3.50 SANDY CLAY, with trace gypsum, light brown, medium plasticity, damp, medium stiff	
	4.00								4.00 CLAYEY SAND, with trace gypsum, light reddish brown, damp, medium dense, fine grained, sub-rounded to sub-angular	
2043.2	5.50	1	RS	4 15 45	60	67%		SC	-with trace gravel, weakly cemented, very dense	Sample #1 split: 1a@4.5' & 2b@5'
	6.00								7.50	
	8.00							CL	9.00 SANDY CLAY, light brown, medium plasticity, moist	
	9.00								9.00	
	9.75	2	SS	40 50/3"	50/3"	67%		SC	10.00 CLAYEY SAND WITH SOME GRAVEL, light brown, moist, very dense, fine to coarse grained, sub-rounded to sub-angular	
2038.2	10.00							CGS	12.00 CEMENTED SAND AND GRAVEL, light brown, dry, moderately strong -fractured	
	11.00									
	12.00									
	13.00									
	14.00									
	14.00									
2033.2	15.50	3	RS	7 13 12	25	67%		SC	-occasional clay lenses -wet	Sample #3 split: 3a@14.5' & 3b@15'
	16.00									
	17.00									
	18.00									
	18.00									Shelby Tube (18' to 20')
	19.00	4	ST			50%				
2028.2	20.00								20.00 -occasional cemented lenses	
	21.00	5	SS	4 4 16	20	100%		CL	SANDY CLAY WITH TRACE GRAVEL, light reddish brown, medium plasticity, wet, very stiff	pp = 1.5
	21.50									
	22.00									
	23.00									
	24.00									
	24.00									
2023.2	25.50	6	RS	9 9 10	19	67%		CH	FAT CLAY WITH TRACE SAND AND GRAVEL, light reddish brown, medium to high plasticity, wet, stiff	Sample #6 split: 6a@24.5' & 6b@25'
	26.00									
	27.00									
	28.00									
	28.00									
	29.00									
	29.50	7	ST			67%			28.00 CLAYEY SAND WITH TRACE GRAVEL, light reddish brown, wet, medium dense, fine to coarse grained, sub-rounded to sub-angular	Shelby Tube (29' to 29.5'), refusal w/800 psi
	29.50									
				20						

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12/6/2011	11.4	2036.8

ELEV. (ft)	DEPTH (ft)	SAMPLE		BLOW COUNT			LAB TESTS	USCS Group	MATERIAL DESCRIPTION	REMARKS
		NO.	TYPE	6 inch Increments	Last 1 foot	Percent Recov'd				
	31.00	8	SS	11	26	100%		SC		pp = 2.0 to 3.0
	32			15					-occasional cemented lenses	
	34.00									Sample #9 split: 9a@34' & 9b@34.5'
2013.2	34.92	9	RS	13	50/5"	82%			-with some gravel, very dense	
	35									
	36									
	37							CGS	<b>CEMENTED SAND AND GRAVEL</b> , light brown, dry, moderately strong	
	38									
	39.00									
2008.2	40.50	10	SS	24	18	89%		SM	<b>SILTY SAND WITH TRACE GRAVEL</b> , light reddish brown, wet, dense, fine grained, sub-rounded to sub-angular	Sample #10 split: 10a@39' & 10b@40'
	41			11						
	42			7					<b>FAT CLAY WITH SOME SAND</b> , light reddish brown, medium to high plasticity, wet, stiff	pp = 0.75 to 1.5
	43									
	44.00									Shelby Tube (44' to 46'), 250 psi
2003.2	45.00	11	ST			92%				
	46.00								<b>SANDY FAT CLAY</b> , reddish brown, medium to high plasticity, wet, stiff	
	47.50	12	SS	5	10	89%		CH	-occasional cemented lense	pp = 1.5 to 4.5
	48			5						
	49.00			5						
1998.2	50.50	13	RS	10	44	67%		SC	<b>CLAYEY SAND</b> , light brown, wet, medium dense, fine grained, sub-rounded to sub-angular	Sample #13 split: 13a@49.5' & 13b@50'
	51			18					-with cemented lenses, very dense	
	52			26						
	53							CGS	<b>CEMENTED SAND AND GRAVEL</b> , light brown, dry, moderately strong	
	54.00									
	54							SM	<b>SILTY SAND</b> , light reddish brown, wet, dense, fine grained, sub-rounded to sub-angular	
1993.2	55.50	14	SS	16	41	100%				
	56			18					<b>CLAYEY SAND</b> , light reddish brown, wet, dense, fine grained, sub-rounded to sub-angular	
	57			23				SC	-with cemented lenses (56' to 57'), very dense	
	58									
	59.00								<b>SILTY SAND</b> , light brown, wet, medium to coarse grained, sub-rounded to sub-angular	Shelby Tube (59' to 60'8"), refusal w/900 psi
	59	15	ST			70%		SM		

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		NO.	TYPE	6 inch Increments	Last 1 foot					
	60.87								60.50 -trace gravel	
	61	16	SS	13 7	18	78%		CH	<b>FAT CLAY WITH TRACE SAND</b> , reddish brown, medium to high plasticity, wet, very stiff	
	62.17			11					63.00	
	63									
	64.00									
1983.2	65	17	RS	29 36 50/5"	50/5"	71%		SC	<b>CLAYEY GRAVELLY SAND</b> , light reddish brown, wet, very dense, fine to coarse grained, sub-rounded to sub-angular  -occasional clayey gravel lense	Sample #17 split: 17a@64.5' & 17b@65'
	66									
	67									
	68									
	69.00								69.00	
1978.2	70	18	SS	27 46 50/5"	50/5"	76%		SC	<b>CLAYEY SAND WITH SOME GRAVEL</b> , light brown, wet, very dense, fine to coarse grained, sub-rounded to sub-angular -occasional cemented lense  -with caliche lenses (72' to 73')	
	71									
	72									
	73									
	74.00									
1973.2	75	19	RS	8 7 50/5"	50/5"			CL	<b>SANDY LEAN CLAY</b> , light brown, medium plasticity, wet, medium stiff	Sample #19 split: 19a@74.5' & 19b@75'
	75.42							SC	<b>CLAYEY SAND</b> , reddish brown, wet, very dense, fine grained, sub-rounded to sub-angular End of Boring = 75.5'	
	76									
	77									
	78									
	79									
1968.2	80									
	81									
	82									
	83									
	84									
1963.2	85									
	86									
	87									
	88									
	89									

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