







APR 15 2013

# LOG OF BORING MW- 2C

PROJECT		PJ's CLEANERS		CLIENT		TROPICANA EAST SHOPPING CENTER PHASE I							
SITE				2470 EAST TROPICANA AVENUE									
GRAPHIC LOG	EASTING	793995	NORTHING	26738518	WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION		OFFSET				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft)												
	DEPTH (ft)	DESCRIPTION		ELEVATION (ft)									
	32.0	SANDY CLAY TRACE GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff			CL								
	33.0	FAT CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium to High Plasticity, Wet, Stiff			CH								
	33.5	CLAYEY GRAVEL WITH SAND - Brown, Wet, Medium Dense Fine to Coarse Grained, Subrounded to Subangular			GC								
	35.0	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Stiff		35	CL								
	37.5	FAT CLAY WITH SAND - Brown, Medium to High Plasticity, Wet, Stiff - With Sandy Lean Clay Lenses, Light Brown - Occasional Clayey Sand Lenses			CH	5	BS	12					
	41.0	SANDY LEAN CLAY WITH CALCAREOUS GRAVEL - White to Light Brown, Medium Plasticity, , Wet, Very Stiff - Partially Cemented (38.5' to 39.5'), Moist, Hard - Very Stiff - Light Brown to Brown, Stiff		40	CL								
	41.5	CLAYEY GRAVEL TRACE SAND - Light Brown, Wet, Medium Dense, Fine to Coarse Grained, Subrounded to Subangular			GC								
	43.0	CLAYEY SAND - Brown, Wet, Medium Dense, Fine Grained, Subrounded to Subangular			SC	6	BS	12					
	45.0	FAT CLAY WITH SAND - Brown, Medium to High Plasticity, Wet, Stiff		45	CH								

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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

SAMPLE TYPES: RS = Ring BS = Bag CPT = Cone Penetration Test  
SPT = Standard Penetration Test C = Core ST = Shelby Tube

WATER LEVEL OBSERVATIONS, ft		BORING STARTED		04-07-2013
WL DEPTH ∇	11.80	04-08-2013	BORING COMPLETED	
WL DEPTH ∇	11.8	04-08-2013	04-07-2013	
NOTES		RIG	Guspeth 480RS	GEOLOGIST / ENGINEER
		PROJECT No.	64097025	PLATE
				REE
				A-9

# LOG OF BORING MW- 2C

PROJECT		<b>PJ's CLEANERS</b>													
SITE					CLIENT										
<b>2470 EAST TROPICANA AVENUE</b>					<b>TROPICANA EAST SHOPPING CENTER PHASE I</b>										
GRAPHIC LOG	EASTING	793995		NORTHING	26738518		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION			OFFSET					USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft)														
	DEPTH (ft)	DESCRIPTION				ELEVATION (ft)									
	SANDY CLAY WITH CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff  - Trace Gravel								CL	7	RS	12			
	49.5	CLAYEY GRAVEL WITH SAND - Light Brown, Wet, Medium Dense, Fine to Coarse Grained, Subrounded to Subangular				50.5			GC						
	50.5	SANDY CLAY WITH CALCAREOUS GRAVEL - Light Brown, Medium Plasticity, Wet, Medium Stiff							CL						
	52.5	FAT CLAY TRACE CALCAREOUS GRAVEL - Reddish-Brown, High Plasticity, Wet, Stiff  - Greenish-Brown				55			CH	8	BS	12			
	55.5	SANDY CLAY WITH CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Stiff							CL						
	57.0	FAT CLAY - Reddish-Brown, Medium Plasticity, Wet, Stiff  - With Cemented Lenses, Light Brown - Reddish-Brown, Very Stiff							CH						
	60.0					60				9	BS	12			

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<b>WATER LEVEL OBSERVATIONS, ft</b>			<b>BORING STARTED</b>		
WL DEPTH $\nabla$	11.80	04-08-2013	04-07-2013		
WL DEPTH $\nabla$	11.8	04-08-2013	04-07-2013		
NOTES			RIG <i>Guspeth 480RS</i>		GEOLOGIST / ENGINEER <i>REE</i>
			PROJECT No. 64097025		PLATE <i>A-10</i>

# LOG OF BORING MW- 2C

**PROJECT** *PJ's CLEANERS*

**SITE** **2470 EAST TROPICANA AVENUE** **CLIENT** **TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION		OFFSET				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft)												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										
69.0	FAT CLAY TRACE CALCAREOUS GRAVEL - Greenish-Brown, High Plasticity, Wet, Very Stiff - With Calcareous Gravel  - Trace Calcareous Gravel, Reddish-Brown												
	With Sandy Clay Lenses, Brown  - Stiff  - Medium Stiff												
70.0	CLAYEY SAND - Greenish-Brown, WET, Medium Dense, Fine to Medium Dense, Subrounded to Subangular												
71.5	SILTY SAND - Light Greenish-Brown, Wet, Medium Dense, Fine to Medium Grained, Subrounded to Subangular												
72.0	- Trace Gravel												
73.5	CLAYEY SAND - Light Greenish-Brown, Wet, Medium Dense, Fine to Medium Grained, Subrounded to Subangular												
74.5	CLAYEY GRAVEL (CALCAREOUS) WITH SAND - Light Brown, Wet, Medium Dense, Fine to Coarse Grained, Subrounded to Subangular												
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<b>WATER LEVEL OBSERVATIONS, ft</b>			<b>BORING STARTED</b> <span style="float: right;">04-07-2013</span>		
WL DEPTH $\nabla$	11.80	04-08-2013	<b>BORING COMPLETED</b> <span style="float: right;">04-07-2013</span>		
WL DEPTH $\nabla$	11.8	04-08-2013	RIG <i>Guspeth 480RS</i>	GEOLOGIST / ENGINEER	REE
<b>NOTES</b>			PROJECT No. 64097025	PLATE	A-11

# LOG OF BORING MW- 2C

<b>PROJECT</b> <p style="text-align: center;"><b>PJ's CLEANERS</b></p>														
<b>SITE</b> <p style="text-align: center;"><b>2470 EAST TROPICANA AVENUE</b></p>					<b>CLIENT</b> <p style="text-align: center;"><b>TROPICANA EAST SHOPPING CENTER PHASE I</b></p>									
<b>GRAPHIC LOG</b>	EASTING <p style="text-align: center;"><b>793995</b></p>		NORTHING <p style="text-align: center;"><b>26738518</b></p>			<b>WELL DETAILS</b>	<b>DEPTH (ft)</b>	<b>SAMPLES</b>				<b>TESTS</b>		
	STATION		OFFSET					<b>USCS SYMBOL</b>	<b>SAMPLE No.</b>	<b>SAMPLE TYPE</b>	<b>RECOVERY (inch)</b>	<b>BLOW COUNT (blows/ft)</b>	<b>FIELD VAPOR TEST (PPM)</b>	<b>NOTES</b>
	APPROXIMATE SURFACE ELEVATION (ft)													
	<b>DEPTH (ft)</b>	<b>DESCRIPTION</b>			<b>ELEVATION (ft)</b>									
76.0	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff  FAT CLAY TRACE SAND AND CALCAREOUS GRAVEL - Reddish-Brown, High Plasticity, Wet, Stiff - Occasional Cemented Lenses  <i>Bottom Depth at Approximately 76 feet</i>													

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<b>WATER LEVEL OBSERVATIONS, ft</b>					<b>BORING STARTED</b>			04-07-2013	
<b>WL DEPTH</b> ∇	11.80	04-08-2013			<b>BORING COMPLETED</b>			04-07-2013	
<b>WL DEPTH</b> ∇	11.8	04-08-2013			<b>RIG</b>	Guspeth 480RS	<b>GEOLOGIST / ENGINEER</b>	REE	
<b>NOTES</b>					<b>PROJECT No.</b>		64097025	<b>PLATE</b>	A-12