

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: GTB-1B								
CLIENT: KeySpan										LOCATION: S of Receiving Reservoir								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER: 26'										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Auger/Split Spoon			
DATE										TIME	LEVEL	TYPE	TYPE	TOTAL DEPTH: 28'	DATE STARTED: 02/11/08			
													DIA.		DATE FINISHED: 02/11/08			
													WT.	140 #	DRILLER: Charlie			
													FALL	30"	GEOLOGIST: AM Casey			
															REVIEWED BY: K. Connare			
															* POCKET PENETROMETER READING			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"		REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist						
		1	SS	10	7	16"	Brown	Medium Dense	FILL: Fine to coarse SAND, trace gravel. No evidence of contamination.	SP								
		6	5															
		2	SS	5	9	17"	Brown / Red	Dense	FILL: Fine to coarse SAND, some subangular to subround, fine to coarse, poorly sorted and well graded gravel, some fragments of concrete. No evidence of contamination.									
		25	34															
5		3	SS	20	8	9"	Brown	Medium Dense	FILL: Concrete fragments medium to coarse angular to subround. No evidence of contamination.									
		9	7															
		4	SS	9	8	8.5"						Moist						
		3	3															
		5	SS	9	5	6"	Red/ Brown	Medium Dense	Fine to coarse SAND, trace subangular to subrounded, fine to coarse, poorly sorted gravel. Little black hydrocarbon staining, no odors.	SP								
10		6	7															
		6	SS	11	11	0												
		11	11															
		7	SS	9	7	16"			Fine to coarse SAND. No evidence of contamination.									
		9	11															
15	8	SS	5	7	15"						Moist							
	8	12																
	9	SS	9	8	14"			Fine to coarse SAND, some fine to coarse, subangular to subround, poorly sorted gravel. No evidence of contamination.	GP									
	10	7																
	10	SS	10	12	18"													
20	12	16																
	11	SS	9	12	19"						Dry							
	15	20																
	12	SS	10	12	13"						Moist							
	10	12																
25	13	SS	5	6	24"													
	7	8																
	14	SS	6	11	21"						Wet							
	9	8																
	End of boring at 28' bgs.																	
30																		
Comments: Geotechnical boring adjacent to former Receiving Reservoir area.										PROJECT NO.		11175065						
										BORING NO.		GTB-1B						

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: GTB-2B							
CLIENT: KeySpan										LOCATION: N of Receiving Reservoir							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Auger/Split Spoon			
DATE	TIME	LEVEL	TYPE	TYPE						Split Spoon			TOTAL DEPTH: 28'				
				DIA.						2"			DATE STARTED: 02/12/08				
				WT.						140 #			DATE FINISHED: 02/12/08				
				FALL						30"			DRILLER: Charlie				
										* POCKET PENETROMETER READING				GEOLOGIST: AM Casey			
														REVIEWED BY: K. Connare			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"		REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	PID	Moist				
	[Patterned]	1	SS	4	4	20"	Dark Brown	Loose	FILL: Clayey SAND, some organic material, trace fine to medium gravel. No evidence of contamination.		SC						
		2	SS	2	2	11"	Red/ Brown ↓	Loose	Fine to medium SAND, some fine to medium gravel, trace coarse gravel.		SP						
				2	2												
5		3	SS	1	1	12"			Very Loose					Moist			
				2	2												
		4	SS	3	4	13"			Loose	Fine to coarse SAND, some fine to coarse gravel. No evidence of contamination.		SP		Moist			
				4	4												
	5	SS	2	1	13"			Very Loose	Medium to coarse SAND, trace fine sand, some fine to coarse gravel. No evidence of contamination.		GP						
10			1	2													
	6	SS	1	1	11"		Very Loose	Fine to coarse SAND, some fine to coarse gravel. No evidence of contamination.		SP		Moist					
			1	2													
	7	SS	1	2	9"		Very Loose										
			2	20													
15									Refusal at 14 ft bgs.								
20																	
25																	
30																	
Comments: Geotechnical boring adjacent to former Receiving Reservoir area.										PROJECT NO. 11175065							
										BORING NO. GTB-2B							

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: GTB-3							
CLIENT: KeySpan										LOCATION: Area E near DGP-71							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER: 26'										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Auger/Split Spoon			
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon				TOTAL DEPTH: 28'							
				DIA.		2"				DATE STARTED: 02/12/08							
				WT.		140 #				DATE FINISHED: 02/12/08							
				FALL		30"				DRILLER: Charlie							
										* POCKET PENETROMETER READING				GEOLOGIST: AM Casey			
														REVIEWED BY: K. Connare			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"		REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist					
		1	SS	17	10	19"	Black	Medium Dense	FILL: Fine to coarse SAND, some fine to medium gravel. Some ash-like material (ALM).	SM							
		2	SS	11	5	13"		Medium Dense	FILL: Sandy SILT, some ALM. Moderate hydrocarbon odor.								
5		3	SS	2	2	17"	Green/ Grey	Loose	FILL: Clayey SILT with ALM, staining and odors. Some DNALP globules, moderate odor.								
		4	SS	3	4	16"											
		5	SS	2	2	16"	Red/ Brown	Medium Dense	Fine to medium SAND, some fine to coarse gravel, moderate to strong hydrocarbon odor.	SP		Moist					
10		5	SS	14	10	14"											
		6	SS	14	16	14"											
		6	SS	6	14	17"											
		6	SS	18	20	17"											
		7	SS	9	9	15"			Fine to coarse SAND and fine to coarse GRAVEL.	GP							
		7	SS	10	11	15"			Fine to coarse SAND, slight staining, moderate hydrocarbon odor.	SP		Moist					
15		8	SS	8	10	16"			Fine to coarse SAND, some fine to coarse gravel, staining and moderate hydrocarbon odors.			Moist					
		8	SS	10	11	16"											
		9	SS	9	10	14"											
		9	SS	14	15	14"											
20		10	SS	7	8	19"			Moderate odor, no staining								
		10	SS	11	15	19"											
		11	SS	14	14	16"			Fine to medium SAND, trace medium to coarse gravel, no staining, moderate odor.								
		11	SS	16	22	16"											
		12	SS	8	15	19"		Dense									
		12	SS	24	28	19"											
25		13	SS	10	19	19"			No odors.								
		13	SS	22	26	19"											
			NR			NR			Medium to coarse SAND, some fine to coarse gravel. No evidence of contamination.			Wet					
									End of boring at 28' bgs.								
30																	

Comments: Geotechnical boring in Area E near DGP-71.

PROJECT NO. 11175065

BORING NO. GTB-3

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: GTB-4							
CLIENT: KeySpan										LOCATION: Area E near DGP-74							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER: 26'										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Auger/Split Spoon			
DATE	TIME	LEVEL	TYPE	TYPE		Split Spoon				TOTAL DEPTH: 28'							
				DIA.		2"				DATE STARTED: 02/13/08							
				WT.		140 #				DATE FINISHED: 02/13/08							
				FALL		30"				DRILLER: Charlie							
										* POCKET PENETROMETER READING				GEOLOGIST: AM Casey			
														REVIEWED BY: K. Connare			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"		REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	PID	Moist				
		1	SS	7	6	15"	Black		FILL: Fine to coarse SAND and GRAVEL, some ash-like material (ALM) and clinker. No odors		GP		Moist				
				5	17				Decrease in ALM content.								
		2	SS	22	11	5"											
				8	8												
5		3	SS	2	2	8"	Grey/ Green		FILL: Clayey SILT, some staining, moderate hydrocarbon odor.		SM		Moist				
				4	12												
		4	SS	7	12	10"	Brown		Fine to coarse SAND, some fine to coarse gravel. Moderate to strong hydrocarbon odor.		SP						
				17	17												
		5	SS	8	11	4"			SAND, some fine to coarse gravel and cobbles. Moderate to strong hydrocarbon odors.								
10				15	18												
		6	SS	12	15	0											
				25	28												
		7	SS	7	14	8"	Red/ Brown		Fine to coarse SAND, some medium to coarse gravel, trace fine gravel. Moderate to strong hydrocarbon odor, some staining.		GP		Moist				
				18	22												
15		8	SS	7	8	8"			Trace cobbles.				Moist				
				10	14												
		9	SS	8	12	13"			Slight to moderate hydrocarbon odor, some staining.								
				18	20												
		10	SS	14	15	17"	Brown		Fine to coarse SAND, some fine to coarse gravel. Moderate hydrocarbon odor and staining.		SP						
20				18	20												
		11	SS	15	15	15"	Red/ Brown		Fine to coarse SAND, some medium to coarse gravel. Some thin bands of fine to medium sand. Moderate hydrocarbon odor, no staining.				Dry				
				20	18												
		12	SS	12	14	14"							Dry				
				18	27												
25		13	SS	12	20	18"							Wet				
				24	28												
									End of boring at 26' bgs.								
30																	

Comments: Geotechnical boring in Area E near DGP-74.

PROJECT NO. 11175065

BORING NO. GTB-4