				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:)GP-58	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT	:						KeySpan				JOB NO.:		117506	
BORING	CONTRA	CTOF	?:				Fenley	/ & Nicol			DRILLING METHOD:	Hand Au	uger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	EVEL	TY	PE	TYPE		Macrocore			DATE STARTED:	1	2/19/07	
						DIA.					DATE FINISHED:		2/19/07	
						WT.					DRILLER:		. Meade	
						FALL					GEOLOGIST:		larshm	
							POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Connai	
			SAMP				TOORETTI			SCRIPTION		Π.	Conna	C
DEPTH			JANIF	BLC	we	REC		CONSIST			MATERIAL		DEM	ARKS
FEET	STRATA	NO.	ТҮРЕ			RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	SIRATA			PER	10	RQD%		HARD	0' to 2'		ted material. Black stained			
0		S-1	Grab			4	Black				ALM, wood fibers. Faint to	Fill	25.0	Dry
							Stained		modera	ite MGP odd				
1									modord					
]								
2														
						1								
3]								
						1	Yellow	1	3' to 5',	Loose, fine	to medium to coarse SAND,	GW	1	Dry
4						1	/ Orange		some fi	ne to coarse	e gravel. No MGP impact.			,
						1	,							
5						1								
5		0.0	Macro			46"	Mallan.			fine to medi	um to coarse SAND, little well	GW	0.0	Duri
0		5-2	core			40	Yellow				No MGP impact.	GW	0.0	Dry
6			COIE				/ Orange		J					
						-								
7						4								
8														
9														
										End	of boring: 9' bgs			
10						1								
						1								
11														
12						1								
12						1								
10						4								
13						4								
						4								
14						1								
						1								
15						l								
16]								
						1								
17						1								
						1								
18						1								
						1								
10						1								
19						4								
						4								
20			Ļ			<u> </u>								
Commer	nts:	0-5' ii	nterval e	excava	ted by	hand to	ols. Fill 0' to	3' used in CS	-E-5 san	nple. GW 3'	PROJECT NO.	1	117506	
		10 5 9	group 3	sample	е іаке	n. GW 5	IO 9 USED II	n CS-E-6 sam	pie.		BORING NO.	C)GP-58	

				U	RS (Corpo	oration				TEST BORING	GLOG		
											BORING NO:	[)GP-59	
PROJE	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT	:						KeySpan				JOB NO.:		1175065	5
	CONTRA	СТОР	}:					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME		VEL	ту	'PE	TYPE	040.	Macrocore	COME	TODE	DATE STARTED:		2/19/07	
DATE					FE	DIA.		Macrocore			DATE FINISHED:			
											_		2/19/07	
						WT.					DRILLER:		. Meade	
						FALL		l			GEOLOGIST:		larshma	
						*	POCKET PI	ENETROMET			REVIEWED BY:	Κ.	Connar	e
			SAMP			r		1	DES	SCRIPTION		T		
DEPTH					ows	REC		CONSIST			MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0									Coarse	gravel at gr	ound surface.			
		S-1	Grab			1			0' to 2',	MGP impac	cted material. Black stained	Fill	104.0	Dry
1						1					L, coated, ALM, some tar			,
											gooey), moderate MGP			
2						1			odor. W	ood fibers a	and slag.			
~						-	Duraum	ł	2' to 3'	modium stit	ff, clayey SILT. No MGP	N 41	0.0	
						4	Brown		impact.	mealum Sti	, dayby OLT. NO WAF	ML	0.0	
3						4				fine to i	se SAND some fine gravel.			
						l	Yellow			fine to coars P impact.	Se SAIND SOME TINE gravel.	GW	0.0	Dry
4						1	/ Orange		NU WG	impact.				
						1	/ Tan							
5														
		S-2	Macro			46"	Yellow				se SAND, little fine gravel	GW	0.0	Dry
6			core			1	/ Orange		(well gra	aded). No N	IGP impact.			-
							/ Tan							
7						1	,							
,														
8						-								
0						-								
9														
										End	of boring: 9' bgs			
10														
11						1								
						1								
12	1					1								
						1								
13						1								
13						4								
						4								
14						4								
						4								
15						ļ								
						1								
16						l								
]								
17				Γ		1								
						1								
18						1								
						1								
10						1								
19						4								
						4								
20			Ļ		Ļ	<u> </u>					1			
Comme	nts:			excava	ated by	hand to		2' used in CS	-E-5 san	nple. Jar	PROJECT NO.	1.	1175065	5
1		toct -	ou oloch	abcar			to Olymond !		nla	•		1		
		test e	equaled	sheen		5'. GW 5'	to 9' used ir	n CS-E-6 sam	ple.		BORING NO.	1)GP-59	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	0)GP-60	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	175065	5
		CTOF	}:					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	-
DATE	TIME		VEL	ту	ΡE	TYPE	0.101	Macrocore			DATE STARTED:	1	2/17/07	
DATE						DIA.		Macrocore			DATE FINISHED:		2/17/07	
						WT.					DRILLER:		. Meade	
						FALL					GEOLOGIST:		larshma	
								I ENETROMET			REVIEWED BY:		Connar	
			SAMF				FUCKLIFI			SCRIPTION			oonna	•
DEPTH			SAMP		ows	REC		CONSIST			MATERIAL	r	DEM	ARKS
			TVDE									11000	_	
FEET	STRATA	NO.	TYPE	PE	K 6"	RQD%	COLOR	HARD	_		SCRIPTION	USCS	PID	Moist
0									Coarse	gravel at gr	ound surface. acted material. Stained sand			
		S-1	Grab				Black		0' to 1.5	6', MGP imp	acted material. Stained sand	Fill	189.0	Dry
1							Stained			vel with coa te MGP odo	ting, ALM and wood fibers.			
2							Lt. Brown				to coarse SAND with some	GW		Dry
										coarse grave	el, well graded. No MGP			
3						1			impact.					
						1								
4														
5														
5		6.0	Macro			37"	Lt. Brown		l oosa t	o medium d	ense, fine to very coarse	GP	0.0	Davis
		3-2				37	/ Orange				graded fine gravel. No MGP		0.0	Dry
6			core				/ Urange		impact.	como poon,	graded into graten rie men			
7														
8														
9														
										End	of boring: 9' bgs			
10														
11														
12						1								
13						1								
10														
14														
15														
16														
17														
						1								
18						1								
19						1								
20		0' +	5' 0100	(otod b	her.	d toolo '	Fill and CM/	O' to E' Haad		1 and areas				
Commer		0' to : 3 san		alea l	y nan	u 10015. I	nii anu GW	υιυο, used I	11 09-E-	i and group	PROJECT NO.		175065	
		5 3al	ipic.								BORING NO.)GP-60	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:)GP-61	
PROJEC	CT:					KeySpa	in Hempstea	d MGP			LOCATION:		Area E	
CLIENT:	:						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRA	стоя	l:				Fenley	& Nicol			DRILLING METHOD:	Hand Au	lger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	1	2/18/07	7
						DIA.					DATE FINISHED:		2/18/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
							POCKET PE	ENETROMET	ER REA	DING	REVIEWED BY:	К.	Conna	re
			SAMP	LE				-		SCRIPTION				-
DEPTH				BLO	ws	REC		CONSIST			MATERIAL		REN	ARKS
	STRATA	NO.	TYPE	PEF	-	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0	•								Coarse		round surface.			
0		S-1	Grab				••••••				trial. Black Stained and	••••••	34	Wet
1		3-1	Grab								ravel, ALM, wet (perched	Fill	34	wei
1									water),	little black s	tained clayey silt at 2.5' to 3'.	ГШ		
									Modera	te MGP odd	or.			
2														
3														
4														
5														
		S-2	Macro			30"	5' to 6'				ned ?) clayey SILT. Very faint	ML	0.0	
6			core				Black		MGP or					
							6' to 7'				ium stiff, clayey SILT. No		0.0	
7							Brown		MGP in	npact.				
							7' to 9'				se SAND, some fine to coarse	GP	0.0	Dry
8							Orange		gravel.	No MGP im	pact.			-
							/ Brown							
9														
									Ì	End	of boring: 9' bgs			
10														
11														
12														
12														
10														
13														
14														
15														
16														
17														
18														
19														
20														
Commer	nts:	0-5' ir	nterval e	excava	ted by	hand to	ols. GP 0' to	5' used in CS	S-E-3 and	d GS-E-6	PROJECT NO.	11	17506	5
						CS-E-4 s					BORING NO.)GP-61	
											I	1	1	

				U	RS (Corpo	oration				TEST BORING	i LOG		
											BORING NO:	D	GP-62	
PROJE	CT:					KeySpa	an Hempstea	d MGP			LOCATION:		Area E	
CLIENT							KeySpan				JOB NO.:	11	17506	5
	CONTRA	CTOR	1:					& Nicol			DRILLING METHOD:	Hand Au		
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		8'	-
DATE	TIME	IF	VEL	ту	ΈE	TYPE		Macrocore			DATE STARTED:	1	2/19/07	,
DATE						DIA.		Macrocore			DATE FINISHED:		2/19/07	
						WT.					DRILLER:		Mead	
						FALL					GEOLOGIST:		larshm	
											REVIEWED BY:		Connai	
			SAMP				FOORLIFE			SCRIPTION		Ν.	Connai	e
DEPTH			SAMP		ows	DEC		CONCICT	DE			r	DEM	ADKC
FEET	STRATA		ТҮРЕ		R 6"	REC RQD%	COLOR	CONSIST HARD			MATERIAL ESCRIPTION	USCS		ARKS Moist
	SIRAIA	NU.	TTPE	PEr	0	nQD%	COLUN	HAND	Coorco		ound surface.	0303	PID	MOISU
0														
		S-1	Grab				Black				and GRAVEL, ALM, wet	Fill	50	Wet
1							Stained				een. Moderate MGP odor.			
									()	,,				
2														
3														
							Dk. Brown		3'to 4', (Clayey silt. I	Moderate MGP odor.	ML		
4							Black Stain							
		S-2	Macro			25"	4'-6'				ium stiff, clayey SILT. No		0.0	Dry
5			core			1	Dk. Brown		MGP in	npact.				-
6														
							6' to 18'		6' to 8',	soft, clayey	/ SILT. No MGP impact.		0.0	Dry
7							Orange		-					2.9
							orango							
8														
0										End	of boring: 8' bgs			
9										Lind	bi bonng. o bgo			
3														
10														
10														
11														
11														
10														
12														
13														
14														
15														
16														
17														
18														
19						1								
20														
Commer								ML 0' to 5' use		-E-5	PROJECT NO.	. 11	17506	5
								CS-E-6 samp			BORING NO.	1	GP-62	

						-					BORING NO:	Γ)GP-63	
CLIENT BORING												-	- ai 00	
BORING						KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
							KeySpan				JOB NO.:	11	17506	5
GROUN	CONTRA	CTOF	ł:					& Nicol			DRILLING METHOD:	Hand Au	lger/Ge	oprobe
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	тү	ΈE	TYPE		Macrocore			DATE STARTED:	1	2/19/07	7
DATE						DIA.		Macrocore			DATE FINISHED:		2/19/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
								I ENETROMET			REVIEWED BY:		Conna	
			SAMP				FOORLIFI			SCRIPTION		Ν.	Conna	e
DEDTU			SAMP			DEO		CONCICT	DE			1	DEN	
DEPTH	OTDATA		TYPE	PEF	OWS	REC		CONSIST HARD				11000		
FEET	STRATA	NO.	TYPE	PE	10	RQD%	COLOR	HARD	0			USCS	PID	Moist
0											ound surface.			
		S-1	Grab				Black				cted material. Black stained	Fill	0.0	Dry
1							Stained		sand ar	ia gravel, A	LM. Faint MGP odor.			
2														
							Brown		Soft- me	edium stiff o	clayey SILT. No MGP impact.	ML	0.0	Dry
3														
							Lt. Brown				ID, little fine to coarse gravel.	GW	0.0	Dry
4							/ Tan			impact.	-			,
5														
Ũ		60	Macro			44"	Tan		l oose t	o medium d	lense, fine to coarse SAND,	GP	0.0	Dry
6		3-2	core			44	/ Brown				and, some poorly gradedfine	G	0.0	Dry
0			0010								o MGP impact.			
							/ Orange							
7														
8														
9														
										End	of boring: 9' bgs			
10														
11														
12														
12														
10														
13														
14														
15														
16														
17														
	1													
18														
. 2														
19														
19														
					-									
~~					<u> </u>					1 0! +- E'				
20		0 E''	nt n											
20 Comme							ols. Fill 0' to qualed shee				PROJECT NO.	1	17506	
								en 0' to 5'. GP			PROJECT NO. BORING NO.	1	17506 DGP-63	

				U	RS (Corpo	ration				TEST BORING	LOG		
						•					BORING NO:	C)GP-64	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						- / -	KeySpan				JOB NO.:		17506	5
		СТОР	1:					& Nicol			DRILLING METHOD:	Hand Au		-
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		11'	
DATE	TIME	16	VEL	тν	'PE	TYPE	040.	Macrocore	COME	TODE	DATE STARTED:	1	2/17/07	
DATE			VEL	11	PE	DIA.		Macrocore						
											DATE FINISHED:		2/17/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
						*	POCKET PE	ENETROMET			REVIEWED BY:	К.	Conna	re
			SAMP					1	DES	SCRIPTION		T		
DEPTH					ows	REC		CONSIST			MATERIAL			ARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0									Coarse	gravel at g	round surface.			
		S-1	Grab				Black		MGP in	npacted ma	terial present, black stained	Fill	1.9	Wet
1							Stained				LM, clinker, wet (perched			
						1			, · ·		ed and coated. Moderate MGP) I		
2						1			odor, sł	neen.				
<u> </u>						1			Hand to	ol refueal a	t 2' bgs, (rocks ?).			
						1				or rerusar a	12 0 93, (100 13 :).			
3														
		S-2	Macro			38"	Black				cted material. Sand and ed and coated, ALM.	Fill	25.7	Wet
4			core				Stained			te MGP od				
									modera					
5														
							Dk. Brown		Black, p	peat? or cla	yey SILT. Slight MGP impact	ML	16.0	
6							Brown				f clayey SILT		2.0	
							Lt. Brown		Loose,	fine to coar	se SAND, little fine to coarse	GW	0.0	Moist
7							Orange		gravel.			-		to Dry
		S-3	Macro			39"	Lt. Brown		l oose t	o medium c	lense, fine to coarse SAND,	GP	0.0	Dry
8		00	core			00	/ Orange				and, some fine to coarse	G	0.0	Diy
0			COLE			-	/ Orange		gravel (poorly grad	ed). No MGP impact.			
						-								
9														
10														
11														
										End o	of boring: 11' bgs			
12														
						1								
13						1								
						1								
14						1								
- 14						1								
45						-								
15						-								
						4								
16						4								
						1								
17]								
18						1								
						1								
19						1								
						1								
20						1								
		0 5' 5	atonial	NACK -	tod b	band to		2' used in CC	E 1 0	up to		L	47505	
Commer	าเร:					/ nand to sheen 0'		2' used in CS	-E-1 Gr	սիւս	PROJECT NO.	1	17506	
		Janp	no. vai l	551 64	Juicu	Sheen U					BORING NO.)GP-64	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	C)GP-65	
PROJE	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT							KeySpan				JOB NO.:		17506	5
BORING	G CONTRA	CTOF	ł:					/ & Nicol			DRILLING METHOD:	Hand Au		
	IDWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	ту	/PE	TYPE	•	Macrocore			DATE STARTED:	1	2/18/07	
DATE						DIA.		Macrocore			DATE FINISHED:		2/18/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
								I ENETROMET		DING	REVIEWED BY:		Connai	
			CAMP				FUCKET			SCRIPTION		rx.	Connai	e
DEDTU			SAMP		2000	DEC		CONCICT	DE			1	DEM	ADKO
DEPTH			TVDE		OWS	REC		CONSIST				11000		ARKS
FEET	STRATA	NO.		PE	R 6"	RQD%	COLOR	HARD	0		ESCRIPTION t ground surface.	USCS	PID	Moist
0		S-1	Grab						Coarse	GRAVEL	t ground surface.			
							0' to 3'				ted material. Black stained	Fill	0.0	Dry
1							Black		MGP of		L, ALM, cinder, coal, faint			
]	Stained							
2														
						1			1					
3]								
	¶`````````````````````````````````````				1	1	3' to 5'		3' to 5',	Soft to med	lium stiff, clayey SILT. No	ML	0.0	Dry
4	1				1	1	Brown		MGP in	npact.				,
							-							
5	•													
		6.0	Macro			40"	5' to 5 5"		5' to 5.5	5' soft to me	dium stiff, clayey SILT.		0.0	Dry
6		3-2	core			-	5' to 5.5" Brown		5 5' to 9	a' Loose fir	ne to coarse SAND, some fine	SP	0.0	
0			0010						to coars	se gravel. N	o MGP impact.	55	0.0	Dry
							5.5' to 9'			J	F			
7							Lt. Brown							
							/ Orange							
8														
9														
										End	of boring: 9' bgs			
10														
11														
12	1					1								
						1			1					
13	1					1								
13						1								
14	-					1								
14						4								
					<u> </u>	4								
15					<u> </u>	1			1					
						4								
16						1								
17														
17						1		I						
- 17														
17						-								
						-								
18						-								
18 19						- - -								
18 19 20		0.51				hand to	olo Eill and	ML O' to 5'	ed in CC	E-3 and				-
18 19	nts:							ML 0' to 5' us	ed in CS	-E-3 and	PROJECT NO.	1	117506	
18 19 20	nts:					hand to S-E-4 sa		ML 0' to 5' us	ed in CS	-E-3 and	PROJECT NO. BORING NO.	1	117506 0GP-65	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:)GP-66	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING		CTOR	1:					& Nicol			DRILLING METHOD:	Hand Au	uger/Ge	eoprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	ΤY	ΈE	TYPE		Macrocore			DATE STARTED:	1	2/17/07	7
						DIA.					DATE FINISHED:		2/17/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
							POCKET P		FR RFA	DING	REVIEWED BY:		Conna	
			SAMP	IF						SCRIPTION		1.		
DEPTH					ows	REC		CONSIST			MATERIAL		DEM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	-	Moist
	JINAIA			PEr	10		COLON	HAND	Coarse		t ground surface.	0303	FID	MOIST
0		S-1	Grab								ted material. Black stained			
							0' to 3'		0° to 3°, sand ar	MGP Impac	LM, clinker. Faint MGP odor.	Fill		Dry
1							Black			ched water.				
							Stained							
2														
3														
							3' to 5'				rse SAND, some fine to	GW		Dry
4							Lt. Brown		coarse	gravel. No I	MGP impact.			
5														
-		S-2	Macro			38"	5' to 8"		5' to 8'.	Loose, fine	to very coarse SAND, some	GW		Moist
6		0-2	core			00	Brown				el. No MGP impact.	an		to Dry
0			00.0							-	·			to Dry
7							/ Tan							
7														
										- ' ,				_
8							8' to 9'			No MGP im	/ coarse SAND, little fine			Dry
							Brown		gravei.		μασι.			
9							/ Orange							
										End	of boring: 9' bgs			
10														
11														
12														
·						1								
13														
10														
14														
14														
15														
16														
17														
18														
						1								
19						1								
20														
		0-5'	ntonvol o	NCOVC	itad hi	hand to	ole Fill and	GW 0' to 5' us	ed in ar			<u> </u>		
Commer							n CS-E-4 sa		seu ili gri	սսի օ	PROJECT NO.	1	17506	
		- . p		-, -, -, -, -, -, -, -, -, -, -, -, -, -	2.10						BORING NO.)GP-66	
1														

				U	RS (Corpo	oration				TEST BORING	G LOG		
											BORING NO:	[)GP-67	,
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING		CTOR	l:					& Nicol			DRILLING METHOD:	Hand Au	iger/Ge	eoprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	ΤY	PF	TYPE		Macrocore			DATE STARTED:	1	2/17/07	7
5/112						DIA.		Macrocoro			DATE FINISHED:		2/17/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
								I ENETROMET		DING	REVIEWED BY:		Conna	
			SAMP				FOCKLIFI			SCRIPTION		Ν.	Conna	e
DEPTH			SAMP	BLC	we	DEC		CONSIST			MATERIAL		DEN	IARKS
	STRATA		ТҮРЕ	PEF		REC RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	SIRAIA			PEF	10	RQD%	COLOR	HARD	Castas			USUS	PID	MOIST
0		S-1	Grab								t ground surface. cted material. Black stained			
							0' to 3'					Fill		Wet
1						1	Black				and GRAVEL, ALM, clinker, neen on water in borehole.			
						l	Stained			te MGP od		1		
2						J						1		
												1		
3]								
							3' to 5'		3' to 5',	Soft to med	lium stiff, clayey SILT. Not	ML	l	Moist
4						1	Brown		visibly i	mpacted.		1		to Dry
						1								
5						1								
5		0.0	Macro			32"	5' to 7"		5' to 7'	Soft to mer	lium stiff, clayey SILT. No			Maint
		5-2	core			32				pact visible				Moist
6			COIE				Brown							to Dry
7														
							7' to 9'				to coarse SAND, little very	SP		Dry
8							Lt. Brown		coarse	sand, iittie i	ine gravel. No MGP impact.			
							/ Orange							
9														
										End	of boring: 9' bgs			
10						1								
						1								
11						1								
						1								
12						1						1		
12						1						1		
10						1						1		
13						4								
						4						1		
14						1						1		
						4								
15						l						1		
						1						1		
16														
												1		
17						1						1		
						1								
18						1						1		
					L	1						1		
19						1						1		
- 10						1								
						1						1		
20		0-5' -	atorici	NOONC	tod by	(hand to	ole Fill and		d in CC	-E-3 and				
Commer							OIS. FIII and CS-E-4 samp	ML 0' to 5' us	eu in US	-⊏-s and	PROJECT NO.	1	17506	
		20-L	o oump		.551						BORING NO.)GP-67	
												1		

DEPTH	ONTRAC		VEL		KeySpa	an Hempstea KeySpan	d MGP			BORING NO: LOCATION:)GP-68 Area E	
CLIENT: BORING CO GROUNDW DATE DEPTH FEET S [*] 0	ONTRAC				KeySp		d MGP					Area F	
CLIENT: BORING CO GROUNDW DATE DEPTH FEET S [*] 0	ONTRAC				, - r.							uou L	
GROUNDW DATE	WATER:					reyopall				JOB NO.:	11	17506	5
DATE		LE	VEL			, ,	& Nicol			DRILLING METHOD:	Hand Au		
DEPTH FEET S	TIME	LE	VEL			CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		21'	
DEPTH FEET S				TYPE	TYPE		Macrocore			DATE STARTED:	1	2/17/07	
FEET S					DIA.					DATE FINISHED:		2/18/07	
FEET S					WT.					DRILLER:		. Meade	
FEET S ⁻					FALL					GEOLOGIST:		larshma	
FEET S ⁻							ENETROMET	ER REA	DING	REVIEWED BY:		Connar	
FEET S			SAMP	LE			-		SCRIPTION				-
0			-	BLOWS	REC		CONSIST			MATERIAL		REM	ARKS
	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
1		S-1	Grab					Coarse	GRAVEL at	t ground surface.			
1		_				0' to 1'				oil, some organic matter.	SP		Dry
						Dk. Brown				L C	0.		2.,
						1' to 5'		1' to 5'.	MGP impa	cted material. Black stianed	Fill	32.8	Wet
2						Black		and coa	ated sand ar	nd gravel, ALM, clinker, metal			
						Stained			•	ter present), sheen on water.			
3								Modera	te MGP odo	pr.			
4					-								
					-								
5													
-		6.0	Macro		23"	6' to 7'"		6' to 7'	Heavily imp	acted MGP material. Liquid	Fill	900	Wet
6		5-2	core		23	Black				bly perched water), sheens,	1 111	300	wei
			0010			DIACK				D and GRAVEL, possibly trace			
7								DNAPL	. Strong MG	iP odor.			
						71.101		7' to 8'	Post with lit	tle organic matter.	D	800	
8						7' to 8' Black		7 10 0,	r eat with iit	lie organic maller.	Pt	800	
•						ыаск 8' to 9'		8' to 0'	Soft to mod	ium stiff, clayey SAND and		005	
9									Strong MGF		ML	235	
9		6.0	Maara		20"	Brown		<u> </u>		ted sand and gravel. Black	014/	400	
10		S-3	Macro		32"	Black				intervals of fine to coarse	GW	490	
10			core			Stained				se gravel. Strong MGP odor.			
11													
10													
12								10' to 1'	2' Looso fir	ne to coarse SAND and fine			
- 10									possible gas				
13		6.4	Meetit		4.4"	Datas		1	-	se SAND, some fine to coarse			
		S-4	Macro		44"	Brown			Gasoline typ	-	GW	280	
14			core			/ Orange		3					
					-								
15					4								
					-								
16					-								
					4								
17		0 -						1 0 0	o mod!	anos fina to occurs OAND for			-
		5-5	Macro		32"	Brown				ense, fine to coarse SAND, fine aint gasoline type odor.	e GW	10	Dry
18			core		4	/ Orange			.				
					4								
19					_								
					4								
20					-								
			ļ		4								
21					1								
										of boring: 21' bgs			
Comments:							L 0' to 5' used	in CS-E	-3 and GS-	PROJECT NO.		17506	
L		i≟-0, 5	ເບອີຟຣ	sed in CS-E	-+ sample	5.				BORING NO.	E)GP-68	

BORRED BORRED NO: DOP-59 DELET: KeySpan JOB MO: 1/17005 DENNO CONTRACTOR: Forling & Moral JOB MO: 1/17005 SROUMONATER: CAS. SAMPLER OPLILING METHOD: Hand AugerGanorobe SROUMONATER: CAS. SAMPLER CORE DATE STATE 9 DATE TIME LEVEL TYPE DAL Macrocore DATE STATE 1/17007 Image: Image: TYPE DAL DATE STATE 1/147067 1/147067 Image: Image: Image: TYPE DAL DATE STATE 1/14707 Image:					U	RS (Corpo	oration				TEST BORING	LOG		
PEOLETI: Keyspan LOCATION: Area E CULRET: Keyspan JOB MO. 1172005 SORIBO CONTRACTOR: Forkly & Morit DRILLING METHOD: Hand AugerGapputs ATE TMM LEVEL TYPE TYPE Maccoon DATE STARTED: 121607 DATE TMM LEVEL TYPE TYPE Maccoon DATE STARTED: 121607 DATE TMM LEVEL TYPE TYPE Maccoon DATE STARTED: 121607 DATE TMM LEVEL TYPE TYPE Maccoon DATE STARTED: 121607 DATE SAMPLE DOL OCINTRACTOR: DATE STARTED: 121607 SAMPLE DOL COLON TESTION DATE STARTED: 121607 SAMPLE TYPE PRUE COLON COLON MATERIAL Monitority and the material pandem starter and starter and the material pan							-)GP-69	
CLLEPK: VSC Span JOB NO: 11172065 GORING CONTRACTOR: Falley & Madrocore DRILLING MEHDOD, Hend Age/Gorpobe GROUPWATER: CAS. SAMPLEI CORE TUBE TOTAL DEPTH: 9" GROUPWATER: CAS. SAMPLEI CORE TUBE TOTAL DEPTH: 9" GROUPWATER: TYPE TYPE TYPE TYPE Madrocore DATE STATED: 121307 Image: FALL FOCKET PENETHORTER READING REVEWED BY: Connare DEPTH SAMPLE PECKIFT PENETHORTER READING REVEWED BY: Connare 0 STRATA NO. TYPE PER 6" RODS: COLOR NAMERIA 1 STRATA NO. TYPE PER 6" RODS: COLOR Description Uscale and Adverters in anterest. No: MATERIA 1 GROUP STRATA NO. TYPE PER 6" RODS: COLING: Adverters in anterest. No: MATERIA 1 GROUP STRATA NO. TYPE PER 6" RODS:	PROJEC	CT:					KeySpa	an Hempstea	d MGP						
BORING CONTRACTOR: Fendey A locid DRLING METHOD: Hand Auger/Geopties PCONDUCTOR DATE TIME LEVEL TYPE TYPE Macrocore DATE Finale/D. 12/107 DATE TIME LEVEL TYPE TYPE Macrocore DATE Finale/D. 12/107 DATE TIME LEVEL TYPE TYPE Macrocore DATE Finale/D. 12/107 DATE TIME LEVEL TYPE TYPE Macrocore DATE Finale/D. 12/107 DEPTH SAMPLE TYPE PERF TATE A NO. TYPE PERF RECOVERT PENETROMETER READING RECOVERT Consume K. Commande DEPTH SAMPLE EDOYS COLOR CONSIST DESCRIPTION USCS PID Most 0 SA GRAVE RECOVERTING RECOVERTING Consult And ANDE Fill Dry 1 GRAVE RECOVERTING RECOVERTING Consult ANDEL, ALM, fam, MOP Fill Dry 1 GRAVE SA	CLIENT:						2 1					JOB NO.:			5
SROUNDATER CAS. SAMPLER CORE TUBE TOTAL DEPTH: 9 DATE TIME LEVEL TYPE TYPE Macroscole DATE STATED: 12/1707 Image: Sample in the state of the sta			CTOR	:					& Nicol						
DATE TIME LEVEL TYPE Macrocore DATE FINATED: 12/1707 Image: State of the state										CORE	TUBE			9'	-
Image: Control of the contro			LE	VEL	ТҮ	'PE	TYPE				_	DATE STARTED:	1	2/17/07	
Image: Construct of the second seco															
File File Consist															
SAMPLE POCKET PENETROMETE READING REVIEWED BY: K. Convere DEPTH SAMPLE DESCRIPTION MATERIAL REMARKS PEET STRATA NO. TYPE PERC* RODS COLOR CONSIST MATERIAL DUSCRIPTION USCS PID Motion 0 STRATA NO. TYPE PERC* RODS COLOR CONSIST MATERIAL DUSCRIPTION USCS PID Motion 1 Statict SAMD Statict SAMD Statict SAMD. Statict SAMD. Statict SAMD. GW Dry 4 Statict SAMD Statict SAMD. Statict SAMD. GW Dry 5 Statict SAMD. Statict SAMD. GW Dry Dry 6 Statict SAMD. Statict SAMD. GW Dry Dry 6 Statict SAMD. Statict SAMD. GW Dry Dry 6 Statict SAMD. GW Dry Statict SAMD. GW Dry 7 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
SAMPLE DESCRIPTION EESCRIPTION ERMARKS 0 STRATA NO. TYPE PER 6'' RODS. COUNT Constant DESCRIPTION USCS PID Molet 0 S1 Grad Constant DESCRIPTION USCS PID Molet 1 S1 Grad Constant DESCRIPTION USCS PID Molet 1 S1 Grad Constant Description USCS PID Molet 1 S1 Grad S1 Grad Fill Div 2 S1 Grad S1 Grad Fill Div 3 More S1 Grad Fill Div Div 3 Grad S1 Grad S1 Div Div Div 3 Grad S2 Moro S24 Div Div Div 6 Grad S2 Moro S24 Div Div Div Div								POCKET P		ER REA	DING				
DEPTH FEET STRATA NO. TYPE BLOWS PER 9'' REC. ROD% COLOR CONSIST MATERIAL DESCRIPTION USCS FEMANSS 0				SAMP	LE										-
FEET STRATA NO. TYPE PER 6" RQD% COLOR HARD DESCRIPTION USCS PID Moist 0 S-1 Grab Dry Grab Grab Dry	DEPTH			<u> </u>		ows	BEC		CONSIST	1			[BEN	ARKS
0 S-1 Grab Coarse GRAVEL at ground sufface. Div 1 0			NO.	ТҮРЕ				COLOR					USCS		
1 Black 0 - 3° MCP mpacta conductive meanant. black Fail Dry 1 1 1 Salarde SAND and GRAVEL, ALM, taint MGP Fail Dry 3 1 1 1 1 1 1 3 1 1 1 1 1 1 4 1 1 1 1 1 1 6 5.2 Mcrio 24' Li. Brown Fine to coarse SAND, some fine to coarse gravel. GW Dry 6 5.2 Mcrio 24' Loose to dense fine to coarse SAND, some poorly GP Dry 7 1 1 1 1 1 1 1 1 9 1 1 1 1 1 1 1 1 10 1 1 1 1 1 1 1 1 11 1 1 1 1 1 1 1 1 11 1 1 1 1 1 1 1 1 11 1 1 1 1 1 1 1 1 11 1 1 1 1 1 1										Coarse					
1 stained SAND and GRAVEL, ALM, faint MGP			01	circo				Black					Eill		Dry
a a <td>- 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Diack</td> <td></td> <td>stained</td> <td>SAND and</td> <td>GRAVEL, ALM, faint MGP</td> <td>1</td> <td></td> <td>Diy</td>	- 1							Diack		stained	SAND and	GRAVEL, ALM, faint MGP	1		Diy
3 Image: Single state st	- '						-								
3 Image: Single state st															
4 Fine to carse SAND, some fine to carse gravel. GW Dry 5 S-2 Macro 24" Li. Brown Li. Brown Li. Brown Fine to carse SAND, some poorly GP Dry 6 S-2 Macro 24" Losse to dense fine to coarse SAND, some poorly GP Dry 7 S-2 Core 24" Losse to dense fine to coarse SAND, some poorly GP Dry 9 Sorted gravel. No MGP impacts. End of boring at 9" Interval accounted by hand tools. Collected samples CS-E-3. CS-E-4, and GS End of boring: 21' bgs Interval excavated by hand tools. Collected samples CS-E-3. CS-E-4, and GS PROLECT NO. 11175065	2						4								
4 Fine to carse SAND, some fine to carse gravel. GW Dry 5 S-2 Macro 24" Li. Brown Li. Brown Li. Brown Fine to carse SAND, some poorly GP Dry 6 S-2 Macro 24" Losse to dense fine to coarse SAND, some poorly GP Dry 7 S-2 Core 24" Losse to dense fine to coarse SAND, some poorly GP Dry 9 Sorted gravel. No MGP impacts. End of boring at 9" Interval accounted by hand tools. Collected samples CS-E-3. CS-E-4, and GS End of boring: 21' bgs Interval excavated by hand tools. Collected samples CS-E-3. CS-E-4, and GS PROLECT NO. 11175065							4								
4 A No MGP impacts. A A Dry 5 S-2 Macro core 24* Loose to dense tine to coarse SAND, some poorly sorted gravel. No MGP impacts. GP Dry 7 A	3						-			Eina ta		D como fino to operato gravel	0111		
3 S-2 Marro 24* Loose to dense fine to coarse SAND, some poorly or digravel. No MGP impacts. GP Dry 6 7 1							-	Lt. Brown				b, some me to coarse gravel.	GW		Dry
S-2 Macro core 24" 6	4						4								
S-2 Macro core 24" 6															
6 core sorted gravel. No MGP impacts. 7 5 5 8 5 5 9 5 5 10 5 5 11 5 5 12 5 5 13 5 5 16 5 5 17 5 5 18 5 5 19 5 5 20 5 5 20 5 5 20 5 5 20 5 5 20 5 5	5			Maara			0.4"			L a a a a t	a danaa fina	to accrea CAND, come nearly	0.5		_
0 0 0 0 0 7 7 0 0 0 8 0 0 0 0 9 0 0 0 0 10 0 0 0 0 11 0 0 0 0 12 0 0 0 0 13 0 0 0 0 14 0 0 0 0 15 0 0 0 0 16 0 0 0 0 17 0 0 0 0 18 0 0 0 0 19 0 0 0 0 20 0 0 0 0 21 0 0 0 0 21 0 0 0 0 20 0 0 0 0 21 0 0 0 0 22 0 0 0 0 23 0 0 0 0 24 0 0 0 0 25 0			S-2				24"						GP		Dry
8 9 End of boring at 9' 10 10 11 11 11 12 12 11 12 13 14 14 14 14 14 15 16 16 17 18 19 19 10 11 10 11 11 11 11 12 11 14 14 15 16 16 16 16 17 18 19 10 20 11 11 21 11 11 18 19 11 19 10 11 20 11 11 11 11 11 11 11 11 11 11 11 12 11 11 13 11 11 19 11	6			core						00.100 8	,				
8 9 End of boring at 9' 10 10 11 11 11 12 12 11 12 13 14 14 14 14 14 15 16 16 17 18 19 19 10 11 10 11 11 11 11 12 11 14 14 15 16 16 16 16 17 18 19 10 20 11 11 21 11 11 18 19 11 19 10 11 20 11 11 11 11 11 11 11 11 11 11 11 12 11 11 13 11 11 19 11															
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End of boring at 9' 10 11 12 13 14 14 15 16 16 16 17 17 18 19 20 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	8														
End of boring at 9' 10 11 12 13 14 14 15 16 16 16 17 17 18 19 20 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065															
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11 12 13 14 15 16 17 18 19 20 21 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065											End	d of boring at 9'			
12 13 14 15 16 17 18 19 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	10														
12 13 14 15 16 17 18 19 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065															
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13 14 15 16 16 17 18 19 20 21 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065															
14 15 16 16 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	12														
14 15 16 16 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065															
15 16 16 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	13						l								
15 16 16 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065							l								
16 17 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	14						l								
16 17 17 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065							l								
17 18 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	15						l								
17 18 18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065															
18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS	16						l								
18 19 20 21 Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS							l								
19 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	17														
19 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065							l								
20 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS	18														
20 20 21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS							J								
21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS-PROJECT NO.	19														
21 End of boring: 21' bgs Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS-PROJECT NO.]								
Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	20					ľ	1								
Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065							1								
Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS PROJECT NO. 11175065	21						1								
Comments: 0-5' interval excavated by hand tools. Collected samples CS-E-3, CS-E-4, and GS-PROJECT NO. 11175065											End	of boring: 21' bgs			
	Commer	nts:	0-5' ir	nterval e	xcava	ted by	hand too	ls. Collected	samples CS-I	E-3, CS-I	E-4, and GS	PROJECT NO.	11	17506	5
		-	E-5.			-							1		
			•												

				URS	Corpo	oration				TEST BORING	i LOG		
					•					BORING NO:	DGP	- 70 1	of 2
PROJEC	CT:				KevSp	an Hempstea	d MGP			LOCATION:		Area E	
CLIENT:						KeySpan				JOB NO.:		17506	5
-		CTOR	:			1	& Nicol			DRILLING METHOD:	Hand Au		-
	DWATER:		-			CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	
DATE	TIME	15	VEL	TYPE	TYPE	040.	Macrocore	CONE	TODE	DATE STARTED:	1	2/20/07	,
DATE		LC	VEL	TIFE	DIA.		WIACIUCUIE			DATE FINISHED:		2/20/07	
					WT.					DRILLER:		. Mead	
					FALL							larshm	
					-		L ENETROMET			GEOLOGIST: REVIEWED BY:		Conna	
			CAMD			FUCKETFI					N.	Conna	e
DEPTH			SAMP	BLOWS	REC		CONSIST		SCRIPTION	MATERIAL		DEN	IARKS
FEET	STRATA		TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	SIRAIA	NO.		PERO	RQD%	COLUR	ΠΑΝΟ	Coorco		t ground surface.	0303	PID	MOISL
0		S-1	Grab							~			
					_	0' to 3'				cted material. Black stained and GRAVEL, ALM, (perched	Fill	35.0	Wet
1					4	Black			sheen. MGF				
					4	Stained		,,					
2					_			1					
								1					
3													
						Black St,		Black s	tained (MGI	P impact) clayey SILT.	ML		Wet
4						Brown		Clayey	SILT. No vis	sible impact.		 	
		S-2	Macro		32"	Lt. Brown		,	fine to medi	um to coarse to very coarse	GP	2.0	Dry
5			Core			/ Brown		,	, , ,	ed fine to coarse gravel. No			
						/ Tan		visible i	mpact.				
6													
7													
					-								
8					-								
0		S-3	Marco		38"	Dk. Brown		8' to 9'	Fine SAND	, trace fine gravel. 3" interval	<u>е</u> р	4.0	
		5-3			30	DK. DIOWII				y fine sand with very faint	SP	4.0	
9			core							ty, viscous, not tar)			
10						Orange		9' to 12	, Loose, fin	e to coarse SAND, little fine to	GW		Dry
						/ Lt. Brown		coarse	gravel (well	graded). No visible impact.			-
11						,							
					-			1					
12					-								
14		S_1	Macro		21"	Lt. Brown			fine to coars	se SAND, trace fine gravel. No	SP	0.0	D~.
10		3-4			21			visible i		uale inte gravei. NU	52	0.0	Dry
13			core		-	Tan							
					-			1					
14					4								
					-								
15					_			1					
					_			1					
16								.			.		ļ
		S-5	Macro		26"	Brown to				e to coarse SAND, trace very	SP/GW	1.6	Dry
17			core			Lt. Brown		coarse	sand, trace	fine gravel. No visible impact.			
						/ Tan							
18								1					
								1					
19								1					
					1								
20								1					
Commer	nts:	0-4' ir	nterval e	excavated h	y hand to	ols. Fill and M	ML 0' to 5' use	ed in CS-	E-7 and GS	PROJECT NO.	11	17506	5
5511110							S-E-16 sample			BORING NO.		- 70 1	
											Dui	, 0 1	
											1	1	

				U	RS (Corpo	oration				TEST BORING	GLOG		
											BORING NO:	DGI	P-70 2 (of 2
PROJEC	CT:					KeySpa	an Hempstea	d MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	1	117506	5
BORING	CONTRA	CTOR	ł:					& Nicol			DRILLING METHOD:	Hand Au	uger/Ge	eoprobe
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	
DATE	TIME	LE	VEL	ТҮ	'PE	TYPE		Macrocore			DATE STARTED:	12	2/20200	7
						DIA.					DATE FINISHED:		2/20/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		Harshm	
							POCKET PE	NETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAMP	LE				-		SCRIPTION				-
DEPTH					ows	REC		CONSIST			MATERIAL		REN	IARKS
	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
20	•		Macro			24"	Orange		Loose.		se SAND, trace fine gravel.	SW	0.0	Dry
		00	core			1	/ Yellowish			ole impact.	, 	0	0.0	5.9
21			core				/ Tellowish							
21						1								
22						1						1		
- 22						1						1		
						1						1		
23						-								
24						1						1		
24										End	of boring: 24' bgs			
05										Litu (Ji bonng. 24 bgs			
25						-								
						-								
26						-								
07														
27						-								
28														
						-								
29														
30														
30														
01														
31						-								
						4						1		
32						-								
						4						1		
33						4						1		
- 24						1								
34						1						1		
95						1								
35						1						1		
20						1								
36						4						1		
07						4						1		
37						4						1		
						1								
38						4						1		
						4						1		
39						4						1		
						4						1		
40													L	
Commen	nts:										PROJECT NO.	1	117506	
											BORING NO.	DGI	P-70 2 (of 2

				URS	Corpo	oration				TEST BORING	G LOG		
										BORING NO:	DGI	P-71 1 c	of 2
PROJEC	CT:				KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:					, ,	KeySpan				JOB NO.:	1.	1175065	5
BORING		СТОЯ	1:				/ & Nicol			DRILLING METHOD:	Hand Au	uger/Ge	oprobe
	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	-
DATE	TIME	LE	VEL	TYPE	TYPE		Macrocore			DATE STARTED:	1	2/19/07	
DATE				1166	DIA.		Macrocore			DATE FINISHED:		2/19/07	
					WT.					DRILLER:		. Meade	
					FALL					GEOLOGIST:		larshma	-
					_		I ENETROMET		DINC	REVIEWED BY:		Connar	
			0.4.445			PUCKETP					n.	Connar	е
			SAMP					DE	SCRIPTION		1		1 51/0
DEPTH				BLOWS			CONSIST			MATERIAL			ARKS
	STRATA	NO.		PER 6"	RQD%		HARD			ESCRIPTION	USCS	-	Moist
0		S-1	Grab			Black				cted material. Black stained	Fill	80.0	Wet
						Stained				and GRAVEL, ash-like water), sheen. Moderate MGF	0		
1								ndor	i, (pereneu	water), sheen. Moderate Mer			
2													
3					-								
						Black		0' to 4',	MGP impad	cted clayey SILT.	ML		
4					_	Stained		· · · · ,			IVIL		
		S-2	Macro		16"	otanica		4' to 6'	MGP impa	cted clayey SILT. Stained	ML	288	Moist
5		3-2			10				Noderate M		IVIL	200	woist
5			core		_								
					_								
6					_								
					_	Brown		6' to 8', MGP of		dium stiff, clayey SILT. Faint	ML	34.0	
7								MGP 0	uor.				
8													
		S-3	Macro		28"	Brown				ined black, clayey SILT.	ML	430.0	
9			core					0		MGP odor.			
			Macro			9' to 12'	1			ghtly stained, fine to coarse	GP	433.0	Dry
10			core			Lt. Brown		-	little fine to	coarse gravel. Gasoline-type			,
								odor.					
11					_								
					_								
12					_								
12		0.4			40"	_		1 0 0 0 0	with little et	aining Fina to approx SAND		070.0	_
10		5-4	Macro		46"	Brown				aining. Fine to coarse SAND, d fine gravel. Gasoline-type		379.0	Dry
13			core		_	/ Tan		odor, co		a gravon dabonno type		down	
					_			, , , ,	-			to	
14					_								
												235.0	
15													
16													
		S-5	Macro		32"	Brown	1	Loose,	slightly stair	ned. Fine to medium SAND,	GW/SW	417.0	Dry
17			core							e sand, trace to little fine			,
										o strong gasoline-type			
18								(degrac	led) odor.				
10				├ ─- ├ ─-	-								
10					_								
19					_								
					_								
20										-			
Commer				excavated	by hand to	ols. Fill and	ML 0' to 5' us	ed in $C\overline{S}$	-E-7	PROJECT NO.		1175065	
		samp	le.							BORING NO.	DGI	P-71 1 c	of 2

				U	RS (Corpo	oration				TEST BORING	LOG		
						-					BORING NO:	DGF	P-71 2 c	of 2
PROJEC	CT:					KevSpa	an Hempstea	d MGP			LOCATION:		Area E	
CLIENT							KeySpan				JOB NO.:		17506	5
	G CONTRA	СТОР	<u>}:</u>					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:		••				CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	
DATE	TIME	15	VEL	ту	'PE	TYPE	UAU.		COME	TODE	DATE STARTED:	4		
DATE		LC	VEL	11	PE	DIA.		Macrocore					2/19/07	
						WT.					DATE FINISHED: DRILLER:		2/19/07	
						FALL					GEOLOGIST:		. Mead	
								L ENETROMET		DINC	Î		larshm Connai	
			04440				PUCKETPI				REVIEWED BY:	ĸ.	Connai	e
DEDTU			SAMP			DEC		CONCICT	DE	SCRIPTION		1	DEM	
DEPTH			TVDE		OWS	REC		CONSIST				11000		ARKS
FEET	STRATA		TYPE	PEI	R 6"	RQD%		HARD			ESCRIPTION	USCS		Moist
20		S-6	Macro			20"	Brown				ense. Impacted with some edium to coarse SAND, some	GW	173.0	Dry
			core				/ Orange				te gasoline (degraded) odor.			
21									5.5		,			
						1								
22						1								
23														
24														
									I	End c	of boring: 24' bgs			
25														
26														
_														
27														
28														
- 20														
29														
25														
30														
30														
01														
31														
						4								
32						ł								
				1		4								
33						4								
34				1		4								
				1		4								
35						1								
						1								
36														
						l								
37														
]								
38]								
						1								
39						1								
						1								
40						1								
Commer	nts:					I		1	I		PROJECT NO.	1 -	17506	5
Sommer											BORING NO.		P-71 2 c	
												Dar	1120	
L												1	1	

				URS	Corpo	oration				TEST BORING	GLOG		
										BORING NO:	[)GP-72	
PROJEC	CT:				KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						KeySpan				JOB NO.:		117506	
BORING		CTOR	:			Fenley	& Nicol			DRILLING METHOD:	Hand Au	uger/Ge	oprobe
GROUNI	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TYPE	TYPE		Macrocore			DATE STARTED:	1	2/20/07	
					DIA.					DATE FINISHED:		2/20/07	
					WT.					DRILLER:		. Mead	
					FALL					GEOLOGIST:		Harshm	
						POCKET PI	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAMP	I F					SCRIPTION				-
DEPTH			0/	BLOWS	REC		CONSIST			MATERIAL		REM	ARKS
	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0	0	S-1	Grab	12110	nge //	Black	TIATE	0' to 2'		cted material. Black stained	Fill	0.0	Dry
0		5-1	Grab		-					EL, coal, slag, ALM.	ГШ	0.0	Dry
					-	Stained				, , 3,			
1					4								
					_								
2					_								
					4	Brown				ned clayey SILT. Very faint	ML		
3					_			MGP oc					
						Brown		3' to 5',	Clayey SIL	T. No visible impact.			
4													
5													
		S-2	Macro		28"	Dk. Brown		Fine to	coarse SAN	ND, little to some fine to	GW	0.0	Dry
6		_	core			to Lt.		coarse	gravel, well	graded. No visible impact.			,
					-	Brown							
7					-	/ Tan							
- '					-								
8					-	/ Orange							
0					-								
					-								
9													
					_				End	of boring: 9' bgs			
10					4								
					_								
11													
					4								
12													
13													
					7								
14					1								
					1								
15					1								
-					1								
16					1								
10				 	-								
17					-1								
17					-								
10					-								
18					4								
					4								
19					4								
					1								
20													
Commen	nts:	0-5' ir	nterval e	excavated b	y hand to	ols.				PROJECT NO.	1	117506	5
										BORING NO.)GP-72	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	0)GP-73	
PROJE	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT							KeySpan				JOB NO.:		17506	
BORING	G CONTRA	CTOR	}:				Fenley	/ & Nicol			DRILLING METHOD:	Hand Au	iger/Ge	eoprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		8'	
DATE	TIME	LE	VEL	TY	/PE	TYPE		Macrocore			DATE STARTED:	1	2/20/07	7
						DIA.					DATE FINISHED:	1	2/20/07	7
						WT.					DRILLER:	М	. Mead	е
						FALL					GEOLOGIST:	J. F	larshm	an
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	К.	Conna	re
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD		DI	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab						Coarse	GRAVEL a	t ground surface.			
		•					0' to 3'		0' to 3',	MGP impad	cted material. Black stained	Fill	6.0	Wet
1							Black				of sand and gravel, ALM,		0.0	wet
							Stained		(perche	d water), sh	neen. Faint MGP odor.			
2						1	Stanieu							
						1								
3						-			1					
3									3' to 4'	Black stain	ed clayey SILT, MGP	N 41		Maint
4						-	3' to 5' Block			ed. Faint od		ML		Moist
4		0.0				0.0"	Black		· · · ·		htly stained clayey SILT. Very			to Wet
			Macro			32"	Brown			GP odor.	nity stained clayey SILT. Very		20	Moist
5			core											
											to medium to coarse SAND, gravel, trace coarse gravel.	SP	30.0	Moist
6											raded) odor and impact.			to dry
									o, ga		adda) dadi ana impada			
7														
8														
										End	of boring: 8' bgs			
9														
10														
11														
12														
					1	1			1					
13					1	1								
						1			1					
14					1	1								
					-	1								
15						1			1					
10						1								
16						1								
10						-			1					
17						-								
17						-								
10						-			1					
18						-								
					<u> </u>	-								
19					<u> </u>	-								
						4								
20											-			
Comme	nts [.]	0-4' ir	nterval	excava	atod h	hand to	ols Fill and	ML 0' to 5' us	od in CS	E 7		4.4	17500	5
00	110.				aleu by					-E-/.	PROJECT NO.	1	17506	
			inter run e	, our c						-⊏-7.	BORING NO.	1)GP-73	

				UF	RS C	orpo	ration				TEST BORING	LOG		
						-					BORING NO:	[)GP-74	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING		CTOR	l:					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		16'	
DATE	TIME	LE	VEL	TYF	PF -	TYPE		Macrocore			DATE STARTED:	1	2/19/07	
DATE						DIA.		Macrocore			DATE FINISHED:		2/19/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
								I ENETROMET			REVIEWED BY:		Connai	
			SAMP				TOOKETTI			SCRIPTION		Π.	Connai	6
DEPTH			SAMP	BLO	we	REC		CONSIST			MATERIAL		DEM	ARKS
	STRATA	NO.	TYPE	PER		RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	SIRAIA			PEN	0	nQD%		TAND	0' to 2'		ted material. Black stained			WOISt
0		S-1	Grab				Black				L, coal, ALM. Faint MGP	Fill	0.0	
							Stained		odor.					
1														
2														
							Black				ed and coated clayey SILT.	ML		Moist
3							Stained		Very fai	nt MGP odd	or.			
4														
		S-2	Macro			38"	Black		4' to 5',	Black stain	ed and coated SILT. Faint	ML	0.0	
5		-	core				Stained		MGP of	dor.				
							5' to 8'		5' to 8'.	Loose. fine	to coarse SAND, little fine	GW	0.0	Dry
6							Brown		gravel.	,		an	0.0	Diy
0							DIOWII		-					
7														
8														
		S-3	Macro				8' to 9'		8' to 9',	Fine to coa	rse, little fine gravel.	GW	33.0	
9			core				Brown							
							9' to 9.5'			-	oey/tarry, MGP impacted, tar,			
10							Black		viscous	-				
-							9.5' to 12'				e to coarse SAND, little fine			
11							Brown		gravel.	Gasoline oc	lor.			
12														
		S-4	Macro	-+	\rightarrow		Brown		Gasolin	e impacted	Fine to coarse SAND, little	GW	75.0	
13			core				/ Tan			vel. Gasolir				
- 10			0010	-+			, iuli							
14				+	-+									
14														
				\square										
15														
16														
										End o	of boring: 16' bgs			
17				$_$ T]									
18														
				\rightarrow										
19				+	\neg									
20				+	-+									
	te.	0.4'	atorial	VC2V2 ⁺	ad by I	hand to	ole Fill and	ML 0' to 5' us	d in CC	-E-5		<u> </u>		
Commen		samp		nuaval	eu Dy I	nanu lü	us. Fill and	w∟ o to o us	-u iii 03	-L-J	PROJECT NO.		17506	
		Janp									BORING NO.)GP-74	
													I	

PROJE							oration				TEST BORING			
CLIENT											BORING NO:)GP-90)
	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
	:						KeySpan				JOB NO.:	11	117506	5
BORING	CONTRA	CTOR	l:				Fenley	& Nicol			DRILLING METHOD:	Hand Au	uger/Ge	eoprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:	1	2/18/07	7
						DIA.					DATE FINISHED:		2/18/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		Harshm	
							POCKET P		FR RFA	DING	REVIEWED BY:		Conna	
			SAMP							SCRIPTION			1	
DEPTH			U AIWI		ows	REC		CONSIST			MATERIAL	1	REN	IARKS
FEET	STRATA	NO.	ТҮРЕ		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0	JIIAIA	NO.				TIGED /0	OOLON	HAILD	Coorco			0000		WOISt
0		S-1	Croh				Diaale		0' to 3'	MGP impa	ound surface. cted material. Stained sand		4.0	Maiat
		2-1	Grab				Black		and gra	vel. Al M. c	oal, cinder-like material. Faint	Fill	4.9	Moist
1							Stained		MGP of					to Dry
-														
2														
					<u> </u>									
3														
							Brown				lium stiff, clayey SILT. No	ML		Dry
4									MGP in	ipact.				
5														
		S-2	Macro			38"	Tan /				lense, fine to coarse SAND,	GW	0.0	Dry
6			core				Orange				oarse SAND, littleto some			-
						1	-			coarse grave	el (well graded). No MGP			
7									impact.					
-														
8														
•														
9	C													
5										Final	of boring: 9' bgs			
10										End	or boring: 9 bgs			
10														
11														
12														
13												1		
14														
												1		
15	1					1								
	1					1								
16	1					1								
-														
17														
.,														
18														
10														
10														
19														
20				L	Ļ									
Comme							-ill and ML 0	' to 5' used in	GS-E-7	sample. Jai	PROJECT NO.	1	117506	
		iest e	qualed	sneen	i tor u'	10 5.					BORING NO.	C)GP-90)
											1	1	1	

				U	RS (Corpo	oration				TEST BORING	LOG		
					-						BORING NO:)GP-91	
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KeySpan				JOB NO.:		17506	5
-		СТОГ	<u>}:</u>					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	ту	ΈE	TYPE	0/101	Macrocore	00112		DATE STARTED:	1	2/17/07	,
DATE			VEL	- 11	FE	DIA.		Maciocole			DATE FINISHED:		2/17/07 2/17/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
								I ENETROMET		DINC	REVIEWED BY:		Conna	
			SAMP				POCKETP					ĸ.	Conna	e
DEDTU			SAMP			DEC		CONCICT		SCRIPTION		Г	DEN	
DEPTH	OTDATA	NO	TYPE		DWS R 6''	REC		CONSIST HARD				11000		ARKS
FEET	STRATA	NO.	TYPE	PEI	K 6	RQD%	COLOR	HARD	Caaraa		ESCRIPTION t ground surface.	USCS	PID	Moist
0		S-1	Grab											
							Black				ed MGP impacted material, od. Slight black coating on	Fill	2.0	Wet
1							Stained				d and fine to coarse gravel.			
											orehole at 1' to 5' bgs),			
2										Moderate N				
3														
4						1								
						1								
5														
-		S-2	Macro				Brown		5' to 5.5	5', Soft to m	edium stiff, clayey SILT. No	ML	0.0	Moist
6		02	core			1	DIOWII		MGP in	npact visible) .			Dry
0							5.5' to 9'		5.5' to 9)'. Fine to ve	ery coarse SAND, some fine	GP		Dry
7							Lt. Brown		to coars	se grave. No	o visible MGP impact.	Gi		Diy
/										0				
0							to Orange							
8														
9														
										End	of boring: 9' bgs			
10														
11														
12														
]								
13]								
						1								
14						1								
					1	1								
15						1								
						1								
16														
17														
17														
10														
18														
19														
20														
Commer					ated by	hand to	ols. Fill and	ML 0' to 5' us	ed in CS	-E-1 and	PROJECT NO.	11	17506	5
		GS-E	-1 sam	oles.							BORING NO.)GP-91	
												1		

PROJEC CLIENT: BORING	<u>эт.</u>					Corpo						LOG		
CLIENT:	ЪТ.										BORING NO:		GP-92	
CLIENT:						KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	KeySpan				JOB NO.:		17506	5
		CTOR	:					& Nicol			DRILLING METHOD:	Hand Au		
GROUN	DWATER:		-				CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	ту	ΈE	TYPE	0/101	Macrocore	00.1.2		DATE STARTED:	1	2/17/07	,
DATE			VEL	11	FE	DIA.		Maciocore			DATE FINISHED:		2/17/07 2/17/07	
						WT.					DRILLER:			
													Mead	
						FALL					GEOLOGIST:		larshm	
							PUCKETPI	ENETROMET			REVIEWED BY:	ĸ.	Conna	re
	1		SAMP						DE	SCRIPTION		1		
DEPTH					ows	REC		CONSIST			MATERIAL			
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0		S-1	Grab								t ground surface.			
							0' to 3'				cted material. Black stained	Fill	2.0	Wet
1							Black				and GRAVEL, ALM, (perched			
							Stained		water),	sheen. MGI	- 0001.			
2														
						1								
3														
-							3' to 5'		3' to 5'.	Soft to med	lium stiff, clayey SILT. No	ML	8.0	Moist
4							Brown		MGP in				5.0	Dry
-							DIOWII							Diy
5														
5		0.0	Macro			0.4"			Soft to a	modium ctif	f, clayey SILT. No visible			
		S-2					5' to 7'		MGP in		I, Clayey SILT. NO VISIDle			Moist
6			core				Brown			ιρασι.				to Dry
7														
							7' to 9'				SAND, some fine to coarse	SP		Dry
8							Lt. Brown		well gra	ded gravel.	No MGP impact.			
							/ Orange							
9						1	/ Tan							
										End	of boring: 9' bgs			
10											3 3 3 -			
-														
11														
12														
12														
13														
14														
15														
					ſ									
16					ſ									
					1	1								
17														
18						1								
10														
10														
19														
20														
Commer					ated by	hand to	ols. Fill and	ML 0' to 5' use	ed in CS	-E-1 and	PROJECT NO.	11	17506	5
		GS-E	-4 samp	oles.							BORING NO.	C)GP-92	

				U	RS (Corpo	oration				TEST BORING	LOG		
						•					BORING NO:	C)GP-93	
PROJEC	CT:					KeySpa	an Hempstea	d MGP			LOCATION:		Area E	
CLIENT							KeySpan				JOB NO.:		17506	5
	CONTRA	СТОЯ	}:					& Nicol			DRILLING METHOD:	Hand Au		
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		8'	
DATE	TIME	LE	VEL	ту	ΡE	TYPE	0/101	Macrocore	00112		DATE STARTED:	1	2/20/07	,
DATE				11	FE	DIA.		Macrocore			DATE FINISHED:		2/20/07	
						WT.					DRILLER:			
											GEOLOGIST:		. Mead	
						FALL							larshm	
						^	POCKET PE	ENETROMET			REVIEWED BY:	К.	Conna	re
			SAMP						DES	SCRIPTION		r		
DEPTH					ows	REC		CONSIST			MATERIAL			ARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0											ound surface.			
		S-1	Grab				Black		0' to 3',	MGP impac	cted material. Black stained	Fill	38.0	Moist
1						1	Stained				and GRAVEL, ALM, (perched			
						1			water),	sneen. Mod	erate MGP odor.			
2						1								
						1								
3						1								
						1			3'to 4' 1	MGP impac	ted black stained clayey SILT.	ML		
4						1	Black Stain		о.о т, I		ILL SIGON STAILING SIGYOY OILT.	IVIL		
4						4			4' to 5'	Clavay SIL-	T. No visible MGP impact.			
							Dk. Brown		4 10 5,	Clayey SIL	1. NO VISIDIE MGP IMpact.			
5										····				
							Lt Brown				e to coarse SAND, little to e gravel (poorly graded). Very	SP	6	Dry
6							/ Tan			soline type				
		S-2	Macro						iunii gu	source type .				
7			core											
8						1								
										End	of boring: 8' bgs			
9														
Ű						1								
10						1								
10						-								
						-								
11														
						4								
12						l								
						1								
13						J								
14]								
						1								
15						1								
						1								
16						1								
10						1								
17						1								
17						4								
						4								
18						l								
						ļ								
19						ļ								
20						1								
Commer	nts:	0-4' ir	nterval e	excava	ited by	hand to	ols. Fill and	ML 0' to 5' us	ed in CS	-E-7 and	PROJECT NO.	11	17506	5
			-15 san								BORING NO.	1)GP-93	
												1		

5 S-2 Macro Brown S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 6 Brown Black 6' to 8', Black stained (not MGP impacted). Fine to coarse gravel. Gasoline odor GW 422.0 Mo 9 S-3 Macro 40" Brown 8' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline odor 300.0 Dr 10 S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Brown Brown 10' to 11' Fine to coarse SAND, with some fine gravel. Black stained and coated interval at 10.5' to 11' (MGP impact?), MGP odor. 87.0 87.0 12 Tan to Orange 11' to 13', Loose, fine to coarse SAND, little fine gravel. Faint gasoline odor. 14.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, some fine to coarse gravel, black staining at 15'. GW 158.0 <th></th> <th></th> <th></th> <th></th> <th>U</th> <th>RS (</th> <th>Corpo</th> <th>ration</th> <th></th> <th></th> <th></th> <th></th> <th>TEST BORING</th> <th>LOG</th> <th></th> <th></th>					U	RS (Corpo	ration					TEST BORING	LOG		
CLIENT: KeyGpan OOE NO.: 11172005 DORING CONTRACTOR: Forlay & NUE DRILLION METHOD: Hand Auge/Genoral GROUNDWATER: CAS. SAMPLER CORE TUBE TOTAL DEPTH: 19'07 DATE TIME LEVEL TYPE TYPE Macrocore DATE INSHED: 121907 DATE TIME LEVEL TYPE TYPE Macrocore DATE INSHED: 121907 DESCRIPTION SAMPLE PALL DOCKET PENETROMETER RADING Macrocore Macrocore Macrocore DESCRIPTION USS Macrocore DEPTH SAMPLE DOCKET PENETROMETER RADING MACROAD K. Connare K. Connare 0 SAMPLE DOCKET PENETROMETER RADING MACROAD K. Connare K. Connare 1 SAMPLE DOCKET PENETROMETER RADING MACROAD K. Connare K. Connare 1 SAMPLE DOCKET PENETROMETER RADING MACROAD K. Connare K. Connare 1 Tration DOCKET PENETROMETER DESC							-					в	ORING NO:	C)GP-94	
CLIENT: KeyGpan OOE NO: 11172006 BORING CONTRACTOR: Forkly & Nicit DRILLIAN METHOD: Hand Auge/Genoral BORING CONTRACTOR: Forkly & Nicit DATE TIME LEVEL TYPE TYPE Macrocore DATE TOTAL DEPTH: 19'07 DATE TIME LEVEL TYPE TYPE Macrocore DATE Macrocore DATE TOTAL DEPTH: 19'07 DATE FALL POCKET PENETROMETER RADING GEOLOGIST: J. Harsdman Macrocore DOCKET PENETROMETER RADING MCContext Transman DEPTH SAMPLE DOCKET PENETROMETER RADING MCContext Transman No. TYPE FRAM MC DESCRIPTION USC PENATION DEPTH SAMPLE DOCKET PENETROMETER RADING MCContext Transman No. Transman Transman No. TYPE FRAM MC DESCRIPTION USC PENATION USC Transman <	PROJEC	CT:					KevSpa	an Hempstea	ad MGP			LC	DCATION:		Area E	
BORING CONTRACTOR: Fonly a Nool PRILLING METHOD: Hand Auger(Deput) DATE TIME LEVEL TYPE Value TYPE 19" DATE TIME LEVEL TYPE Value DATE TOTAL DEPTH: 19" DATE TIME LEVEL TYPE Value DATE TOTAL DEPTH: 19" DATE TIME LEVEL TYPE Value DATE TOTAL DEPTH: 19" DATE TIME LEVEL TYPE Value DATE Concentration Concentration Concentration Concentration Concentration Jatastiman Value PECKET PECKET PECKET PECKET NotERIAL Concentration USCS PED MatcRind Concentration USCS PED MatcRind Total State PECKET PECKET PENANK PECKET PENANK PECKET PENANK PECKET PENANK PECKET PENANK PECKET PENANK PECKET PECKET PENANK												-				5
GROUNDWATER: CAS. SAMPLER CORE TUBE TOTAL DEPTH: 19 DATE TIME LEVEL TYPE TYPE Macrocore DATE FINALED: 121907 DATE TIME LEVEL TYPE TYPE Macrocore DATE FINALED: 121907 DATE TYPE FALL DATE Macrocore DATE FINALED: 121907 SAMPLE POCKET PRETROMETER READING REVEWED BY: K. Connare K. Connare SAMPLE DESCRIPTION USCS FEMARITICID: FEMARITICID: FII 125.0 0 SAMPLE DESCRIPTION USCS FEMARITICID: FEMARITICID: FII 125.0 1 Samed Stained	BORING		СТОР	<u>}:</u>					& Nicol			_				
EATE TIME LEVEL TYPE PYE Macrocore DATE STARTED: 12/19/07 Image: Start Sta										CORE	TUBE	_			-	
DIA. DATE FINSHED: 121907 Image: Stand			1.5	VEI	ту	DE	TVDE	040.		COME	TODE	_		1	2/10/07	,
WT. DRILLER: M. Meade SAMPLE POCKET PENETROMETER READING REVEWED BY: K. Compare DEPTH SAMPLE DESCRIPTION REVEWED BY: K. Compare 0 STRATA No. TYPE PER & ROD% COS MATERIAL DESCRIPTION USCS PID Mole 0 Ocarse gravel at ground surface. Ocarse gravel at ground surface. To 3'' MGP' mpacted matrical. Black Stained	DAIL					<u>гь</u>			Macrocore			-				
FALL EGOLODIST: J. Hashmann POCKET PENETROMETER READING REVIEWED BY: K. Connare SAMPLE DECTINON REVIEWED BY: K. Connare DEPTH STRATA NO. TYPE BLOWS REC. CONSIST MATERIAL USCS PID Mole 0 Image: Strata NO. TYPE BR 0° ROD% COLOR HARD DESCRIPTION USCS PID Mole 1 Image: Strata NO. TYPE BR 0° ROD% COLOR HARD DESCRIPTION USCS PID Mole 1 Image: Strata Strata Black Strata Disc for porched water. Faint to moderate MGP Fill T25.0 2 Macro Black Strata Strata Strata Strata Strata Strata Strata Strata ML Image: Strata <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>												-				
SAMPLE *POCKET PENETROMETER READING REVIEWED BY: K. Connare DEPTH STRATA NO. YVE REG. COLOR CONSIST MATERIAL USCS REMARK 0 STRATA NO. YVE REG. COLOR CONSIST MATERIAL USCS REMARK 1 Stained Stained Coarse gravel at ground strate. Image: Stained Stain												_				
SAMPLE DESCRIPTION MATERIAL MATERIAL BLOWS REC VALUE REMARK REC PER 6" ROO% COUNSIST (CONSIST HARD MATERIAL DESCRIPTION REMARK USCS REMARK PER 4" 0 51 Grab Black Stained COUST Stained Consegravel at ground surface. Stained USCS PID Moin Description USCS PID Moin USCS 2 S1 Grab Black Stained Stained Sto 4", Black stained (MQP-impacted), Clayey odor. ML Black Stained Sto 4", Black stained (MQP-impacted), Clayey SILT. ML B2 Dr 5 Gore Brown Sto 6', Lightly stained black. Soft clayey SILT. ML B2 Dr 6 Stained Brown Sto 6', Lightly stained black. Soft clayey SILT. ML B2 Dr 7 Stained Brown Sto 6', Lightly stained black. Soft clayey SILT. ML B2 Dr 10 Core Brown Brown Sto 7', Lose, fine to coarse SAND, little fine ocarse Gravel. GW 422.0 Mo 10' to 1', Little black staining at 10.5' to 1'' (MCP impacted). GW 177.0 Dr 1											DINC	_				
DEPTH FEET STRATA NO. TYPE BLOWS PER 6" REC. ROD% COLOR COLOR MARD MATERIAL DESCRIPTION USCS FEMARK PID 0 </td <td></td> <td></td> <td></td> <td>0.4.445</td> <td></td> <td></td> <td></td> <td>PUCKETPI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ĸ.</td> <td>Conna</td> <td>e</td>				0.4.445				PUCKETPI						ĸ.	Conna	e
FEET STRATA NO. TYPE PER 6" ROPs. COLOR HARD DESCRIPTION USCS PID Iori 0	DEDTU			SAMP			DEO		CONCIOT	DE					DEN	
0 S-1 Grab S-1 Grab Fill 125.0 1 Stained Sta		OTDATA	NO	TYPE												
S-1 Grab Black Stained 0'to 3', MGP impacted material, Black stained and and gravel, ALM, lens of tarry material at 1' to 5' no perched water. Faint to moderate MGP Fill 125,0 2 3		SIRAIA	NO.	TYPE	PE	16"	RQD%	COLOR	HARD	Caaraa				USCS	PID	MOIST
1 Stained <	0										<u> </u>	-				
1 10 Stained 10 5' no perched water. Faint to moderate MGP odor. 2 3 1 10 Stained SiLT. ML 3 1 10 Stained SiLT. ML 10 5 10 5' to 6', Lightly stained black. Soft clayey SILT. ML 8 10 6 10 5' to 6', Lightly stained black. Soft clayey SILT. ML 82 00 7 10 10' to 5', Black stained (not MGP impacted). Fine to coarse SAND, little fine gravel. 300.0 Dr 10 5' to 7', Little black staining and gasoline type eddr. Fine to coarse SAND, little fine gravel. 300.0 Dr 11 11 10' to 11' Fine to coarse SAND, little fine gravel. 300.0 Dr 12 11 10' to 11' Fine to coarse SAND, little fine gravel. 300.0 Dr 12 11 10' to 11' Fine to coarse SAND, little fine gravel. 300.0 Dr 13 5' 4 Macro 11' to 13'. Losose, fine to coarse SAND, little fine gravel.			S-1	Grab										Fill	125.0	
2 a a a a a a a b	1							Stained								
2 3 4 4 3 3'to 4'. Black stained (MGP-impacted). Clayey SILT. ML Dr 4 6 Brown 4' to 5'. Clayey SILT. ML 82 Dr 5 6 6''' 6'''' 6''' 6''' <td></td> <td>P0.0100 W</td> <td></td> <td></td> <td></td> <td></td> <td></td>											P0.0100 W					
4 Black Sto 4', Black stained (MGP-impacted). Clayey ML Dr 4 Sli T. Sli T. ML Dr 5 G Macro Brown S' to 5', Clayey SILT ML 82 Dr 6 Brown S' to 5', Clayey SILT ML 82 Dr 7 Gore Black S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 7 Black Stained Gasoline impact and strong dor. GW 422.0 Mo to 5 8 Brown B' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline impact and strong dor. 300.0 Dr 9 S-3 Macro 40° Brown B' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. GW 177.0 Dr 10 Core Brown 10' to 11' Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Tan to Tan to 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 14.0 13 S-4 Macro L'. Brown 13' to 15', Medium dense, fine to coarse SAND, f	2															
4 Black Sto 4', Black stained (MGP-impacted). Clayey ML Dr 4 Sli T. Sli T. ML Dr 5 G Macro Brown S' to 5', Clayey SILT ML 82 Dr 6 Brown S' to 5', Clayey SILT ML 82 Dr 7 Gore Black S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 7 Black Stained Gasoline impact and strong dor. GW 422.0 Mo to 5 8 Brown B' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline impact and strong dor. 300.0 Dr 9 S-3 Macro 40° Brown B' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. GW 177.0 Dr 10 Core Brown 10' to 11' Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Tan to Tan to 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 14.0 13 S-4 Macro L'. Brown 13' to 15', Medium dense, fine to coarse SAND, f																
4 Stained Brown SILT. The transmission of	3															
a a b Brown 4' to 5', Clayey SILT Dr 5 a b Brown 5' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 6 Brown B' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 7 a Brown B' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 7 a b Brown B' to 9', Loose, fine to coarse gravel. GW 422.0 Mo 8 a a B' to 9', Loose, fine to coarse GAND, little fine to coarse gravel. GW 177.0 Dr 9 a brown B' to 9', Loose, fine to coarse SAND, little fine gravel. GW 177.0 Dr 10 core a Brown 10' to 1', Little black staining and gasoline type odor. GW 177.0 Dr 11 a </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Black</td> <td></td> <td>3'to 4', I</td> <td>Black staine</td> <td>ned (l</td> <td>MGP-impacted). Clayey</td> <td>ML</td> <td></td> <td></td>								Black		3'to 4', I	Black staine	ned (l	MGP-impacted). Clayey	ML		
5 S:2 Macro Brown S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 6 10 S:2 Macro Black S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 7	4							Stained		SILT.						
5 S-2 Macro Brown S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 6 6' to 6', Black stained (not MGP impacted). Fine to coarse gravel. Gasoline impact and your coarse gravel. Gasoline your coarse gravel. Coarse gravel. Gasoline your coarse gravel. Gasoline your coarse gravel. Gasoline your coarse gravel. Coarse gravel. Gasoline your coarse gravel. Casel your coarse gravel. Casel your coarse gravel. Casel your coarse gravel. Gasoline your gravel. Tan your coarse gravel. User y faint gasoline								Brown		4' to 5',	Clayey SIL	LT				Dry
S-2 Macro Brown S' to 6', Lightly stained black. Soft clayey SILT. ML 82 Dr 6 Brack 6' to 6', Black stained (not MGP impacted). Fine GW 422.0 Mo 7 Brack 6' to 6', Black stained (not MGP impacted). Fine GW 422.0 Mo 8 Brown Stained 6' to 6', Black stained (not MGP impacted). Fine GW 422.0 Mo 9 Brown Stained Brown 6' to 9', Black staining and gasoline type GW 422.0 Mo 10 S-3 Macro 40'' Brown 9' to 10, Little black staining and gasoline type GW 177.0 Dr 11 Brown 10' to 11' Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Tan to 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 GW 15.0 Dr 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. GW 158.0 Dr 14 Core Black Stained 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr	5							2.0111								2.9
6 6 Faint MGP odor. Faint MGP odor. GW 422.0 Mo 7 Black 6' to 8', Black stained (not MGP impacted). Fine to coarse gravel. GW 422.0 Mo 8 Brown Brown 8' to 9', Lose, fine to coarse gravel. GW 422.0 Mo 9 Brown Brown 8' to 9', Lose, fine to coarse gravel. GSW 177.0 Dr 10 S-3 Macro 40' Brown 9' to 10', Little black staining and gasoline type odor. GW 177.0 Dr 11 Brown 10' to 11' Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Tan to Brown 10' to 11' Fine to coarse SAND, little fine gravel. 87.0 14.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. GW 15.0 Dr 14 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. GW 15.0 Dr 15 Grange Lt. Brown 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr <			S-2	Macro				Brown		5' to 6'.	Lightly stai	ined	black. Soft clavev SILT.	ML	82	Dry
Black 6' to 8', Black stained (not MGP impacted). Fine to coarse SAND, little fine to coarse gravel. Gasoline impact and strong odor. GW 422.0 Mo 8 9 9 9 9 9 9 300.0 Dr 9 9 9 9 9 9 9 300.0 Dr 10 10. 11. 10. 10. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 11. 10. 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 15.0 15.0 15.0 15.0 15.0 15.0 17. 14.0	6		0-2					DIOWII					····		-	,
7 Stained to coarse SAND, little fine to coarse gravel. 300.0 Dr 8 Brown Brown Brown 300.0 Dr 10 S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Grave A0" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Grave Brown 10' to 11' Fine to coarse SAND, little fine gravel. GW 177.0 Dr 12 Tan to Drange 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 14.0 13 Grave Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. 14.0 14 Grave Lt. Brown 15' to 17', Medium dense, fine to coarse SAND, gw 15' to 17', Medium dense, fine to coarse SAND, its fine gravel. GW 15.0 Dr 14 Core / Tan Black Gasoline type odor. Gw 15.0 Dr 16 Core / Tan Black Gasoline odor., dry.	Ŭ							Black		6' to 8'	Black stain	ned ((not MGP impacted). Fine	GW	122 0	Moist
3 Stando Gasoline impact and strong odor. Gasoline impact and strong odor. 8 Stando Brown Sto 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline odor GW 177.0 Dr 9 Stando 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 10 Stando Grave 10' to 11' Fine to coarse SAND, little fine gravel. 87.0 87.0 11' to 13', Lose, fine to coarse SAND, little fine gravel. 87.0 11 Tan to Orange Tan to Orange 11' to 13', Lose, fine to coarse SAND, little fine gravel. Finit gasoline odor. 14.0 14.0 14 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. Finit gasoline odor. 14.0 15 S-4 Macro Lt. Brown 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 16 Interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11/75065 20 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11/75065	7													aw	722.0	
9 S-3 Macro 40" Brown Brown S' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline odor GW 177.0 Dr 10 S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Brown Brown 10' to11' Fine to coarse SAND, with some fine gravel. 87.0 10' to11' Fine to coarse SAND, little fine gravel. 87.0 12 Tan to Orange 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 14.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. GW 158.0 Dr 14 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, gravel. GW 158.0 Dr 15 I. Brown I. Brown 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 16 H. Brown / Tan / Orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 18 H. Brown / Orange 15' to 17', Medium dense, fine to coarse SAND, GW	/							Stameu								to Dry
9 S-3 Macro 40" Brown Brown S' to 9', Loose, fine to coarse SAND, little fine to coarse gravel. Gasoline odor GW 177.0 Dr 10 S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Brown Brown 10' to11' Fine to coarse SAND, with some fine gravel. 87.0 10' to11' Fine to coarse SAND, little fine gravel. 87.0 12 Tan to Orange 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 14.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine gravel. GW 158.0 Dr 14 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, gravel. GW 158.0 Dr 15 I. Brown I. Brown 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 16 H. Brown / Tan / Orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 18 H. Brown / Orange 15' to 17', Medium dense, fine to coarse SAND, GW	0															
9 Lt. Brown coarse gravel. Gasoline odor GW 177.0 Dr 10 S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 11 Gramma and the second and coated interval at 10.5' Tan to Orange 10' to 11' Fine to coarse SAND, with some fine gravel. Black stained and coated interval at 10.5' 11' to 13', Loose, fine to coarse SAND, little fine gravel. 87.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, isome fine to coarse SAND, isome fine to coarse gravel. black staining at 15'. GW 15.0 Dr 14 S-4 Macro Lt. Brown 15' to 17', Medium dense, fine to coarse SAND, isome fine to coarse SAND, isome fine to coarse gravel. black staining at 15'. GW 15.0 Dr 15 Gramge It. Brown 15' to 17', Medium dense, fine to coarse SAND, isome fine gravel. Very faint gasoline odor. GW 15.0 Dr 16 Gramge It. Brown / Tan Stained Sto 17', Medium den	8							Duraum		9' to 0'	Looso fina	o to i	ooarea SAND little fine to		000.0	
S-3 Macro 40" Brown 9' to 10', Little black staining and gasoline type odor. Fine to coarse SAND, little fine gravel. GW 177.0 Dr 10 11 Image: S-3 Macro Image: S-3 Macro Image: S-3 GW 177.0 Dr 11 Image: S-3 Macro Image: S-3 Brown 10' to 11' Fine to coarse SAND, with some fine gravel. Black stained and coated interval at 10.5' to 11' (MGP impact?), MGP odor. 87.0 87.0 12 Image: S-4 Macro Image: S-4 Tran to Orange 11' to 13', Loose, fine to coarse SAND, little fine gravel. Black stained and coated interval at 10.5' to 11' (MGP impact?), MGP odor. 14.0 14 S-4 Macro Image: Stained 13' to 15', Medium dense, fine to coarse SAND, some fine to coarse gravel, black staining at 15'. Gasoline type odor. GW 158.0 Dr 15 Image: Stained Ima								-							300.0	Dry
10 core a <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td>	9										0					
10 0			S-3	Macro			40"	Brown					a b b	GW	177.0	Dry
12 Image: Control of the second control of	10			core						0001.11		30 0	AND, IIIIe IIIe gravei.			
12 Image: Control of the second control of																
12 12 11 to 11' (MGP impact?), MGP odor. 14 13 14 14 14.0 0range 11' to 13', Loose, fine to coarse SAND, little fine 14.0 14 14 14 14.0 0range 13' to 15', Medium dense, fine to coarse SAND, some fine to coarse gravel, black staining at 15'. GW 158.0 Dr 14 15 16 16 15' to 17', Medium dense, fine to coarse SAND, GW 158.0 Dr 15 15 16 16 16 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 16 17 17 16 16' orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 17 17 17 16' orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 18 17 17 10 10' orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 19 19 10 10' orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 20 19 19 19 19 11175065 11175065	11							Brown							87.0	
12 Tan to Orange 11' to 13', Loose, fine to coarse SAND, little fine 14.0 13 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine 14.0 14 S-4 Macro Lt. Brown 13' to 15', Medium dense, fine to coarse SAND, little fine GW 158.0 Dr 14 S-4 Macro Lt. Brown 15' to 17', Medium dense, fine to coarse SAND, little fine GW 158.0 Dr 15 I I. Brown I. Brown 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 16 I. Brown / Tan / Orange 15' to 17', Medium dense, fine to coarse SAND, GW 15.0 Dr 17 I. Grange / Orange End of Boring: 19' bgs IS IS IS to 15' used in CS-E-7 PROJECT NO. 11175065 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065																
13 Orange gravel. Faint gasoline odor. 14 S-4 Macro I.t. Brown 14 / Tan Black 15 I.t. Brown / Tan Black Stained I.t. Brown 16 I.t. Brown / Tan 16 I.t. Brown / Tan 17 I.t. Brown / Tan 18 I.t. Brown / Tan 19 I.t. Brown / Orange 19 I.t. Brown I.t. Brown 19 I.t. Orange End of Boring: 19' bgs 18 I.t. Brown I.t. Orange 19 I.t. Brown I.t. Brown 19 I.t. Brown I.t. Brown 19 I.t. Brown I.t. Brown 20 I.t. Brown I.t. Bro	12															
10 S-4 Macro Lt. Brown 14 Core / Tan 15 Black 15 Image 16 Image 17 Image 18 Image 17 Image 18 Image 19 Image 10 Image 14 Image 15 Image 16 Image 17 Image 17 Image 17 Image 18 Image 19 Image 19 Image 19 Image 19 Image 19 Image 20 Image Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065								Tan to							14.0	
14 S-4 Macro Lt. Brown / Tan 13' to 15', Medium dense, fine to coarse SAND, core GW 158.0 Dr 14 Image: S-4 Gree Image: S-4 Macro GW 15', Medium dense, fine to coarse SAND, GW 158.0 Dr 15 Image: S-4 <	13							Orange		gravel.	Faint gasol	line	odor.			
14 core / Tan some fine to coarse gravel, black staining at 15'. 15 Black Stained Stained 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 16 / Tan / Orange Stained 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 17 / Tan / Orange End of Boring: 19' bgs End of Boring: 19' bgs 11175065 20 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065			S-4	Macro				-						GW	158.0	Dry
15 Black 15 Image: Stained 16 Image: Stained 16 Image: Stained 17 Image: Stained 18 Image: Stained 19 Image: Stained 20 Image: Stained Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065	14			core			1					•	avel, black staining at 15'.			-
15 Image Stained 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 16 Image								Black		Gasolin	e type odor	or.				
16 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 16 17 10 17 16 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 17 17 10 10 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 17 17 10 10 10 10 15' to 17', Medium dense, fine to coarse SAND, fine gravel. Very faint gasoline odor, dry. GW 15.0 Dr 17 17 10	15															
16 / Tan fine gravel. Very faint gasoline odor, dry. 17 / Orange End of Boring: 19' bgs 18										15' to 1	7', Medium	ı den	nse, fine to coarse SAND.	GW	15.0	Dry
10 / Orange 17 / Orange 17 End of Boring: 19' bgs 18	16															<i></i> ,
17 End of Boring: 19' bgs 18 19 19 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065										-						
End of Boring: 19' bgs 18 19 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065	17							, Grange								
18 19 20 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065	17									I	Final	of D	oring: 10' bao			
19 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065											End o	or B	uning: 19 bgs			
20 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065	18															
20 20 Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065																
Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065	19															
Comments: 0-5' interval excavated by hand tools. Fill and ML 0' to 5' used in CS-E-7 PROJECT NO. 11175065																
	20															
sample. BORING NO. DGP-94	Commer	nts:			excava	ted by	hand to	ols. Fill and	ML 0' to 5' us	ed in CS	-E-7	PF	ROJECT NO.	11	17506	5
			samp	ole.								В	ORING NO.	0)GP-94	
	ſ														T	

URS Corporation											TEST BORING LOG			
						_					BORING NO:	DGP-9		
PROJEC	CT:					KeySpa	an Hempstea	d MGP			LOCATION:	Area E		
CLIENT							KeySpan				JOB NO.:	11175065		
BORING	CONTRA	CTOF	}:					& Nicol			DRILLING METHOD:	Hand Auger/Geoprobe		
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		4'	
DATE	TIME	LE	VEL	TYPE T		TYPE		Macrocore			DATE STARTED:	1	2/20/07	
						DIA.		macrooore			DATE FINISHED:	12/21/07 M. Meade		
						WT.					DRILLER:			
						FALL					GEOLOGIST:		larshm	
							POCKET PE			DING	REVIEWED BY:		Connai	
			SAMP							SCRIPTION		1	Conna	0
DEPTH						BLOWS REC		CONSIST		MATERIAL			RFM	ARKS
FEET	STRATA	STRATA NO. TYPE				RQD%	COLOR	HARD			ESCRIPTION	USCS	PID Moist	
0		NO.				COLON	Coarse			round surface.	0000	110	moist	
0		0.1	Crah			-	Disala		0' to 3'	MCP impa	cted material. Black stained		10.0	\A/~+
		S-1	Grab				Black				nd gravel, ALM, (perched	Fill	10.0	Wet
1							Stained				lerate MGP odor.			
				ļ		4						1		
2					<u> </u>	1						1		
					<u> </u>	1						1		
3														
			Grab			l	Black Stain			•	acted clayey SILT.	ML		
4							Brown		3.5' to 4	5' to 4', Clayey Silt. No visible impact.				
										End	of boring: 4' bgs			
5														
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20						1								
Commer	nts:	0-4' ii	nterval e	excava	ated by	hand to	ools. Fill and ML 0' to 5' used in CS-E-7			-E-7	PROJECT NO.	11	17506	5
2011110		sample.								BORING NO.	DGP-95			
L												1	l	