## LIMITED SITE DATA ATTACHMENT D MONITORING WELL BORING LOGS

	TH TE (		313		Test	Boring Log	1	Boring No. MW-8 Sheet Lof 2	
PROJE	CT: Freer	nan's Br	idge Roa	d			Project 1	No.: 38925	
CLIEN	T: New Y	ork Stat	e Departi	neut of E	nvironm	ental Conservation	Datum: Grade		
PURFC	SE: Mon	itoring `	Well Inst	Illation			Date Sta	irted: 8/21/01	
SUBCC	)NTRAC	FOR: Pa	arratt-Wo	lff	,,	nished: 8/21/01			
METHOD: 8.25" ID HSA				RIG:	R 300	OPERATOR: D. Thorna	Inspect	or: Kevin McGrath	
Sampl	SAMPLE INTERVAL: Continuous			Samp	LE DEVI	CE: Split Spoon	***************************************	Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	PID	WELL.	REC	Geologic Description		Observations	
	\$1A (0-0.5)				***************************************	md, d, c(+)m S, w cf G, t(-) \$.	1.33	gray-brown	
. ]	SIB		97 · ppm		20"	s, d, dk br \$, w S & G.		Slight odor ~ 14"	
2	(0.5-2) S2		141 ppm		4"	. do.	~ 3.0	Insufficient recovery for lab sample. Strong odor, black liquid in gravel.	
5	(2-4) S3 (4-6)		136 ppm (initial) 1166 ppm		24"	s-ss, w, bk-gy Cy\$, l(+) mf S; occ. bi broken glass and brick in upper fool Somewhat mottled appearance.		Very strong odors	
7	S4 (6-8)				0"				
9	S5 (8-10)		107 ppm		7"	do: no anthropogenics, abundant plant fiber. (Peat-like)			
10 -	\$6 (10-12)		31 ppm		24"	do, abundant woody fibers.	11.5		
12			24 ppm			Loose, wet, mf S.			

,	i's Bridge No.: 3892				TES	T BORING LOG	BORING NO. MW-8 Sheet 2 of 2
	Sample Number	Slow Count	PID	WELL	REC	Geologic Description	Observations
3	\$7 (12-14)		52 ppm		24*	I, w, cm(+) S.	
14					************		
15	ne excension processes and a second						
)6							
j7							
18							
19							
20							
21							
22	and a second control of the second control o						
23	·					·	
24							
25							
26 —							
27							
28					,		

NOTES: End boring at 14', plugged boring with bentonite-slurry to 11.5' dbg. Set 4" well screen at 3-11' below grade.

	TH TE	CH () 458-13	13		Tes	t Boring Log	Boring No. MW-9 Sheet 1 of 2		
PROJE	OT Free	nan's Bri	dge Roa	d			Project No.: 38925		
CLIENT	New )	'ork State	Departi	nent of E	avironm	ental Conservation	Datum: Grade		
PURPO	SB: Mor	itoring V	Vell Inst	illation			Date Sta	rted: \$/21/01	
SUBCO	NTFAC	TOP.: Pa	rratt-Wo	lff			Date Fin	nished: 8/21/01	
METHO	)D. 8.25"	ID HSA		RIG: I	R. 300	OPERATOR: D. Thoma	Inspect	or: Kevin McGrath	
SAMPL	E INTER	VAL: Cor	ntinuous	SAMPI	JE DEV	ICE: Split Spoon		Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations	
	\$1.5 (0-0.5)				***************************************	md, d, lt br, mf(+) S, l(+)f G, t \$.		Odor	
	S1B (0.5-2)		59.4 ppm		]4"		2.0		
2	S2 (2-4)		85.8 ppm		21"	Somewhat stiff, moist, dk br Cy\$, I(-) abd wood fiber, pockets of fine Sand.		Strong odor	
4	83 (4-6)		84.7 ppm		24"	do.	5,5	~ 4.5 Very strong odor at apparent water table, diminishing with depth.	
6	S4		12.8			I, wet, dk gy mf S, t \$ do.		Odor.	
8	(6-8)		ppm		24"				
9	S5 (8-10)		13.8 - ppm		24"	do: more fine sand, less Silt		Odor	
10	56					l, w, dk gy, mf(+) S.		Odor.	
11	\$6 (10-12)				24"				

	's Bridge No.: 3892		000000000000000000000000000000000000000		TES	T BORING LOG	BORING NO. MW-9 Sheet 2 of 2
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
	S7 (12-14)				24"	do.	
4							4.5
15 —						End boring@14.5	
16  17							
18							
19 <del></del> 20 <del></del>							
21 —							
22 — —				18.8 (18.9 (1		,	
23 - 24	-				·		
 25				-			
26 — —							
28							

NOTES: End spoon sampling at 14' bdg, blind auger to 14.5' dbg, set 4" well screen at 4-14'

	TH TE NY (518		13 - 1		Test	Boring Log		Boring No. MW10			
PROJE	CT: Freez	man's Bri	dge Roa	d				Project N	Vo.: 38925		
CLIENT	: New 3	ork State	: Departi	nent of E	nvironm	ental Conservation		Datum: C	: Grade		
PURPO	SE: Mot	itoring V	Vell Inst.	allation				Date Star	rted: 8/22/00		
SUBCO	NTRAC'	TOR: Pa	rratt-Wo	lff				Date Fin	ished: 8/22/00		
METHO	METHOD: 8.25" ID HSA			RIG:	IR 300	OPÉRATOR: D.	Thoma	Inspecto	or: Kevin McGrath		
SAMPL	SAMPLE INTERVAL: Continuous			SAMP	LE DEVI	CE: Split Spoon			Hydrogeologist		
Depth (Feet)	Sample Number	- 1	PID	WELL	REC	Geologic Descrip	tion		Observations		
	SIA (8.8-0)					Topsoil & roots in a silty sand.					
	\$18 (0.5-2)		ND		16"	md, d-m, br, c mf(+) \$, t(+) \$, mtld, ins of silt.	tfG,				
2	S2 (2-4)		ND ·		16"	do; samewhat moist, occ bri chips, glass	ck, lime				
4	\$3 (4-6)		21.5 ppm		18"	do. Moist to wet at ~5'., fre of fine gravel	e water ii	in pockets  Strong oder at 5 <sup>1</sup> Large piece of wood in base of spoon apparent saturated with black oil			
6			25.4		·	do.		6.5	product  6.5		
	S4		ppm		24"	Woody fiber with c&d in S	ilt.		Thick, blackish liquid from 6.5-7.0, strong odor. Liquid has greasy feel and leaves		
7	(6-8)					l, wet, gy-br, f.S. t(-) f.G.			notable smear on protective latex gloves when handled. Appears to have saturated		
9	S5 (8-10)		12 ррт		20"	do, acc lenses of Silt.			the woody fiber.		
12	S6 (10-12)				NR (<3")						

	Project No.: 38925				TES	I BORING LOG		BORING NO. MW10 Sheet 2 of 2		
Depth (Feet)	Sample Number		PID	WELL	REC	Geologic Description		Observations		
13	S7 (12-14)				ÑR (<3")					
14	\Blind\						14.5			
15						End boring @14.5	:			
16 —		·								
17										
18										
19										
20										
21	de contra e e de de contra e e de de de contra e e de									
22 —										
23	,									
24 —				e e acesta d'achteristic age						
25										
26										
27								основного		
28										
***************************************	Sample to	14, blind	auger to	14.5, set 4	" well sor	reen 4-14'				

Albany,	NY (518	) 458-131	13	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Test Boring L	og.	Boring MW-	<u> </u>			
	CI Freer			d			Project No.: 38925.02.01				
					Environmental Conservation		Datum: Grade				
							Date: 8/22/00				
	SE: Mon					***************************************	Inspector: Kevin McGrath				
	NTRAC'		arratt-We		OBERA	TOR: D. Thoma	Mudeagaalagiet				
	DD: HSA			RIG: I			-	·			
SAMPLE	MIEK,	VAL: Co	ntinuous	SAMPI	LE DEVICE: 2" Split-Spoor						
Depth (Fect)	Sample Number	PID	REC	USCS	Soil Description	Geologic Desc	cription	Observations			
1	S1 (0-2)	Oppm onitial Soppm 61.8	16*		Medium dense, well sorted gravelly Sand; pockets + lenses of Silt and fine Sand, mottled appearance.	0-6" Topsoil & 1 Md, d-m, c m(+) f G, t(+) \$ + Cy\$; brick, concrete	'S, K-) f abd				
2		6ppm initia)	18"		do.	do.					
(7°)	S2 (2-4)	loppu H.S.				I-md, CfG w mf	3.5	Black stained, strong odor			
4		St.ippu R.S.	24"		Well sorted Gravel, angular shale chips	abundant woody Wet ~5.0		guramy texture  \( \sum_{5.0} \)			
5	\$3 (4-6)							Apparent free product at WT to 7.0'.			
6		26.8ppm H.S.	22*				7.0				
7	S4 (6-8)	58.7ppm H.5			Somewhat stiff gray Silt, lenses of yellow & brown fine Sand.	SS, w. gy + yb & (lenses of fine sa Silt matrix).	, If S;	Odor			
8		ND ELS.					8.5				
9.			24"		Poorly sorted fine Sand with Silt.	i-md, wet, gy f S	, 1(-) \$.	Faint odor.			
10		ND			do.	do.					
11 -	S6 (10-12)	)	24"								
12		<u> </u>									

NOTES: No laboratory samples collected, duplicates information from MW-10, determined to be NOT necessary for NYSDEC PM.

					TEST BORING	LOG	BORING NO.: MW-10D Project No.: 38925
	Sample Number	PID	REC	USCS	Soil Description	Geologic Description	Observations
13 —	S7 12-14)		24"		do.	do; occ pockets of yellow brown mf S; occ layers of Clayey \$iit, occ Gravel.	8" Jayers of roots fiber from 12.5 ~ 13.2".
14	\$8 14-16)		24"		do.	do; somewhat greenish- gray to dk blue gray. Somewhat stiffer, low plasticity	
16	S9 16-18)		24"		do.	do.	
18 (	S10 18-20)		24"		do.	de. . 19.33	Alternating layers up to 8'
20	\$11 20-22)		24"		de.	do; with f G; well- rounded C to subangular Gravel. do.	thick of fS, mfS & G, cfG + c m S. Silt on Silty Clay with f Sand.
22 — 23 — 0	S12 22-24)		24"		do.	do: alternating layers of fine Sand and medium fine Sand and Gravel.	
24	\$13 24 <i>-</i> 26)		24"		do.	do.	
3 3	\$14 26-28)		24"		do.	do.	
28							

NOTES:

				***************************************	TEST BORING I	BOPING NO.: MW-10D Project No.: 38925	
Depth (Feet)	Sample Number	PID	REC	USCS	Soil Description	Geologic Description	Observations
	S15 (28-30)				do.	do.	
30 <del></del>	S16				do.	do.	
31 -	(30-32)						
32 -	S17				de.	do.	
33 -	(32-34)					7	a'
34					End boring @ 34' dbg.	3	-
35 -							
36 -							
37 -							
38							
39				-			
40							
4]							
42							
43							
44							

NOTES:

<b>,</b>	TH TE		313		Tes	t Boring Log	Borii Sheet	ng No. MW11	
<b></b>	ECT: Free	******	*********				Project	No.: 38925	
CLIEN	NT: New 1	York Stat	e Depart	ment of E	invironn	iental Conservation	Dutum: Grade		
PURP	OSE: Mor	nitoring \	Well Inst	allation			Date St	arted: 8/22/00	
SUBC	ONTRAC	TOR: Pa	amati-Wo	olff			Date Fi	nished: 8/22/00	
метн	IOD: 4.2	5" ID HS	Α	RIG:	IR 300	OPERATOR: D. Thoma	Inspec	or: Kevin McGrath	
Sampt	LE INTER	VAL: Co	ntinuous	SAMP	LE DEV	ICE: Split Spoon	***************************************	Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations	
	\$1A (9-0,5)		ND			ss, d-m, dk br, \$, l(-) f S, occ. Gravel, asphalt, and concrete.	roots,	5" layer of broken asphalt.	
)	SIB (0 5-2)		ИD		15"				
3 —	S2 (2-4)		ИD		12"	do: Cy\$ lenses, pockets of mf(+) S, or peobles; low plasneity.	4" layer of broken concrete		
5	83 (4-6)		МД		12"	do; acc packets of cm S.			
7	S4 (6-8)		ND		22"	do. Stiff to very stiff.	7.5		
8			a de la constante de la consta			s-ss, m, tn-br, \$, i(+) f S.	8.5	Abrupt color change to tan-brown at 7.5'.	
9	S5 (8-10)		ND		10"	md, m, br-gy, \$, w f S, occ. lenses of m		Loam-like, possible natural soil horizon (pre-fill surface?)	
10	S.C.					do; wet at 11.5.			
1) —	S6 (10-12)		ND		13"		•	<b>X</b> 11.5	
12. —	L		<u></u>	<u> </u>					

	's Bridge l No.: 3892				TES	T BORING LOG	BORING NO. MW11 Sheet 2 of 2	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations	
13	\$7 (12-14)		ND		24"	do.		
14	Blind							
16 —	S8 (15-17)				24"	do.  16'  1, w, mf S, t(-) \$.	Sharp contact at 16'.	
17						End boring @ 17.0		
18								
19 — 20 —			·					
21								
22								
23								
25								
26								
27 —								
28	<b></b>							

NOTES: Borehole grouted with bentonite pellets from 15.5 to 17 feet below grade. 2" well screen set from 5-15.

	TH TE , NY (511	I <b>CH</b> 8) 458-13	.13		Tes	t Boring Log	Borin Sheet I	ng No. MW12		
PROJE	.CT: Free	man's Br	idge Roa	d			Project	No.: 38925		
CLIEN'	T: New '	York State	e Departr	nent of E	avironm	pental Conservation	Datum:	Grade		
PURPC	)SE: Mor	nitoring V	Vel) Inst	allation	****		Date Sta	arted: 8/23/00		
SUBCC	ONTRAC	TOR: Pa	ırratt-Wo	lff		-	Date Fir	nished: 8/23/00		
METHO		25" ID HS/		RIG: I	IR 300	OPERATOR: D. Thoma	Inspect	or: Kevin McGrath		
SAMPL	EINTER	VAL: Cor	atinuous	SAMPI	LE DEVI	ICE: Split Spoon	J2000000000000000000000000000000000000	Hydrogeologist		
Depth (Feet)	Sample Number	}	PID	WELL	REC	Geologic Description		Observations		
1	S1 (0-2)		12"			md, d, br \$, a mf \$, fgmts of bnck, co asphalt.	norete,			
2	S2		8"			st, m br Cy\$ w fS, I(-) G; fqt asphalt and building stone.				
3	(2-4)		20000000			md, m, dk br, Cy\$, w f S thin layers	~3.5			
5	S3 (4-6)		15"		:	(Fill and Alluvium)	~5.5	Spoon wet inside 4-6', potential perched zone.		
7	S4 (6-8)		20"			md, m , br-gy Cy\$ to rdbr \$yC, 1(-) f	S.			
§ ——	S5 (8-10)		8"			st, d, br-gy \$yC, l(-) f S; increasing n fraction and occ. pebbles.	of sand			
10	\$6 (10-12)		24"			ss, w, dk br-gr \$, a f S. Sand lenses in with depth.	creasing	<b></b> 10'		
12. —								****		

Freeman's Bridge Road Project No.: 38925					TES	T BORING LOG	BORING NO. MW12 Sheet 2 of 2
	Sample Number	Blow Count	PID	WELL	REC	Geologic Description	Observations
13	\$7 (12-14)		ND		24"	do; Sandy layers increasing in frequency and thickness.	-
15 -	S8 (14-16)		ФИ		24"	do.	Sandy layer > 1" ~-15".
16						do. 16	_5
17 <del></del>	89 (16-18)		ND		24"	l, w, gy, w(+) f S.	
18						End boring @ 18.0	
19							
20							
21	ere						
22 <b></b> -							
23							
24							
25							
26						·	
27 <del></del>							
2.8							

NOTES: Auger advanced to 16' boring advanced to 18', grouted borehole to 15.5', with bentonite slurry. 2" screen set 5-15' dbg.

	CH TE NY (518	<b>CH</b> 3) 458-13	13	Test Boring Log					Boring No. MW13 Sheet 1 of 2	
PROJE	CT: Free	man's Bri	idge Roa	đ				Project	Project No.: 38925	
CLIENT	r: New Y	rork State	e Departr	nept of E	πασόπνα	ental Cor	servation	Datum:	Grade	
PURPOSE: Monitoring Well Installation									rted: 8/23/00	
SUBCO	NTRAC	TOR: Pa	rratt-Wo	lff				Date Fir	nished: 8/23/00	
METHO	)D: 4.2	5" ID HS/	Ą	RIG: 1	R 300		OPERATOR: D. Thoma	Inspect	or: Kevin McGrath	
SAMPL	E INTER	VAL: Coi	ntinuous	Samp	LE DEVI	(CE: Split	-Spoon	***************************************	Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC		Geologic Description		Observations	
 [	ИЗ				2"				Asphalt roadway or debris stuck in shoe.	
2 —						s, m, dk	br \$yC; abt. asphalt and conc	rete;		
;	S1 (2-4)				18"	ss, d, gy	Cy\$, a f S, abt debris.			
5	\$2 (4-6)				14"	do; with	wood and cinders.		Odor.	
6	\$3 (6-8)	7/6			10"	do; mor	e sand <sub>, </sub> blackish		Odor	
8	\$4	7/6			4"	l, m, bl, :	S, IS, abt. wood, cinder, org	anics -9_0		
10 -	(8-10) S5 (10-12)	ND			12"	vs, d - m	\$yC w f S, 1(-) f G.		Outside of spoon smeared with black liquid, strong odor.	
12										

Freeman's Bridge Road Project No.: 38925			************	NAME OF THE PROPERTY OF THE PR	00000000000000000000000000000000000000	Sheet 2 of 2		
	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations
	S6				5"	si, m, gy Cy&\$.		
13	(12-14)						e e e e e e e e e e e e e e e e e e e	
14 <del></del>  15	S7				24"	m, gr. \$yC, a S.		
	(14-16)					0.165		
17 -	_					End boring @ 16.0		
. 81								
. 19 –			•					
20 -								
21 -	-							
22 -			7					
23 -								
24 -								
25 -								
26 -								
27								
28								

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW14 Sheet 1 of 2				
PROJECT: Freeman's Bridge Roa	d		Project	Project No.: 38925			
CLIENT: New York State Departs	CLIENT: New York State Department of Environmental Conservation						
PURPOSE: Monitoring Well Inst	PURPOSE. Monitoring Well Installation						
SUBCONTRACTOR: Parrati-Wo	lff		Date Fit	nished: 8/23/00			
METHOD: 4.25" ID HSA	RIG IR 300	OPERATOR: D. Thoma	Inspect	or: Kevin McGrath			
SAMPLE INTERVAL: Continuous	SAMPLE DEV	ICE: Split Spean		Hydrogeologist			
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description		Observations			
		l, w, br cmf S, a cf G, l(-) \$&C.	***************************************	Edge of parking area.			
si	18"			Heavy rain causing some ponding around augers.			
2		do: w-m, less G, fqt lyr fill, occ. gr-b	г Су\$.				
3 - S2 (2-4)	18"						
4		l, m, gy-br, cmf S, w gr G a \$. Abt. deb	o, gy-br, cmf S, w gr G a \$. Abt. debris.				
5 S3	6"						
6				Odor. Blackish liquid.			
7 — \$4 (6-8)	10"	m, d, br-gy Cy\$: las wd, debris.					
8		ss, w, Cy\$, wfS, occ wd pcs.		Odor.			
9 — S5 (8-10)							
10			10.8				
31 — 86 (10-12)	14"	I, w, gy, cmf(+) S.	10.5				
12							

Freeman's Bridge Road Project No.: 38925					TES	T BORING LOG	BORING NO. $$ $$ $$ $$ $$ $$ $$ $$ $$ $$
Depth (Feet)	Sample Number	Elow Count	PID	MEĽ	REC	Geologic Description	Observations
13 —	S7 (12-14)				<3"	do.?	no recovery in spoon, sand similar to previous interval in shoe.
14						End Boring @14.0	
15							
16 <del></del>							
17							
18							
20 <del>-</del>							
		,					
21							
22 — —							
23							
24							
25							
26 —							
27							
28	<u></u>						

NOTES: Stop auger advance at 12' below grade and attempted to collect one additional spoon.

Boring was grouted closed with bentonite/portland sturryto 2 feet below grade and finished with cuttings.

Boring relocated approximately 3 feet to new location and installed without sampling to 10' below grade.

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW15	
PROJECT: Freeman's Bridge Ro	3d		Project i	No.: 38925
CLIENT: New York State Depart	ment of Environer	ental Conservation	Datum: (	Grade
PURPOSE. Monitoring Well Ins	iallation		Date Sta	rted: 8/24/00
SUBCONTRACTOR: Parratt-W	olff		Date Fir	nished: 8/24/00
METHOD: 4.25" ID HSA	RIG: IR 300	OPERATOR: D. Thoma	Inspecto	or: Kevin McGrath
SAMPLE INTERVAL: Continuous	SAMPLE DEV	ICE: Split Spoon		Hydrogeologist
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description		Observations
S1 (0-2)	20"	Roadway asphalt & under base stone, G.		No odor, gravelly road fill, clean. No sample.
3 S2 (2-4)	S*	i, w, gy, mf G, w \$ & f S; angular cr stone,	ushed 	·
5 S3 (4-6)	15"	st, w, bl-gy, Cy\$, If S. fqt. Lenses of f and sandy silt	ine sand	3.5 Odor, free phase black oily hquid
7 — S4 (6-8)	10"	do; less stiff		Odor.
9 S5 (8-10)	20"	st, m, bl-gy Cy\$, pkis of i, w dk gr bi	k S \$,	black oily liquid in pkts of loose soils.
\$6	24"	st, m, dk gr Cy\$.		Slight odor.
12 (10-12)				

Freeman's Bridge Road Project No.: 38925					TES		BORING NO. MW15 Sheet 2 of 2	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations
13	S7				20"	s, w, dk gy Cy\$.		Slight odor.
13 ****	(12-14)						13.5	
14						l, w, br-gy, f S, t(+) f G & \$.	14.0	
: 4						End boring @ 14.0		
15								
 16								
17 —								
 18								
19 —	· · · · · · · · · · · · · · · · · · ·							
20								
21								
- 22						ı		
23								
24								
2.4								
25	· · · · · · · · · · · · · · · · · · ·							
26								
27								
28								

Notes: Auger advanced to 14', six inch layer of bentonite pellets placed 13.5-14 feet, 2" well screen set 3-13.

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW15D Page 1 of 1		
PROJECT: Freeman's Bridge R	pad		Project No.: 38925		
CLIENT: New York State Depa	tment of Environm	nental Conservation	Datum: Grade		
PURPOSE: Monitoring Well In		Date Started: 1	1/03/00		
SUBCONTRACTOR: Parratt-V		Date Finished; 1	1/06/00		
METHOD: 8.25" HSA and 4.25" S	C RIG: IR 300	OPERATOR: D. Thoma	Inspector: Kevin M		
SAMPLE INTERVAL: Standard	SAMPLE DEV	ICE: Split Spoon	Hydroge	ologist	
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description	Obs	ervations	
		8.25" HSA to 10' below grade with 6" casing set and grouted into place 4.25" spin casing with saturdard set from 10 ft to EOB.	e mpling		
10 12 S-1 12 24 ND (12-14) 24 36	16"	md, w, gy, cf G, w cm S, t(+) \$. Angular to subangular Gravel.	10.0'		
16 S-2 23 17 ND (17-19) 28 18	24*	do: lyrs of cm S.			
20 22 8-3 36 37 ND 24 (22-24) 14 10	24"	do.			
26 S-4 20 13 ND (27-29) 10 12 ND	24"	l, w, gy, cm S.			
30		End Boring @ 30'.	30.0.l		
NOTES:		EBREDOTHE (W. 3);		000000000000000000000000000000000000000	

EARTH TECH Albany, NY (518) 458-1313	A NO L AFOX XXX LL AND LL						
PROJECT: Freeman's Bridge Ro	ıd		Project 1	Project No.: 38925			
CLIENT: New York State Depart	ental Conservation	Datum: (	Grade				
PURPOSE: Monitoring Well Inst	Date Sta	rted: 10/31/01					
SUBCONTRACTOR: Parratt-W	olff		Date Fin	ished: 10/31/01			
METHOD: 4.25" ID HSA	RIGHR 300	OPERATOR: D. Thoms	Inspecto	or: Kevin McGrath			
SAMPLE INTERVAL: Continuous	SAMPLE DEVI	(CE; Split Spoon		Hydrogeologist			
Depth Sample Blow PID (Feat) Number Count	WELL REC	Geologic Description		Observations			
3	14"	i -md, m, dk br m(+)f S, l(+) \$, t( abd, roots.	-) f G; 0.5				
S1 2 ND (0-2) 2	1 24	cut broken brick.					
3 S2 3 ND (2-4) 6 10	6"	do.  I, m, dk r-br, mf(+) S, Cy\$, I(-) f bits of brick, concrete, asphalt, v do.					
s S3 2 ND (4-6) 2	9"						
6 2 2 WOH ND (6-8) 3	4°	do.	-7.0	Red, hard, rubber-like substance (dried paint?) and asphalf obstructing shoe			
8 5 - WOH ND 9 S5 - (8-10) WOH	2"	vs, m, bk Cy\$, a f S, pockets o tan-brown f S.	Ť.	Insufficient recovery to collect sample.			
(8-10) WCH 10 S6 WCH 11 (10-12) WCH	24"	s-ss, m-w, gy & y-br Cy\$. tf S.		10.5			
12		I, w. gy-br, m(+)f S. End Boring @12.0'	11.75				

NOTES: Water level based on observation of apparent saturation in spoon sample.

Borehole plugged with bentonite from 11.5' - 12.0' 2" well screen sett 6-11'.

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW16D		
PROJECT: Freeman's Bridge Ro	ad		Project No.: 38925		
CLIENT: New York State Depar	ment of Environm	ental Conservation	Datum:	Grade	
PURPOSE: Monitoring Well Ins	allation		Date Sta	rted: }1/2/00	
SUBCONTRACTOR: Parratt-W	olff		Date Fit	nished; 11/3/00	
METHOD: 8.25" HSA and 4.25" So	RIG: IR 300	OPERATOR: D. Thoma	Inspect	or: Kevin McGrath	
SAMPLE INTERVAL: Standard	SAMPLE DEV	ICE: Split Spoon		Hydrogeologist	
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description		Observations .	
10 NA		8.25" HSA to 14' below grade with no sampling, 6" casing set and grouted into place, 4.25" spin casing with satndard sampling from 14 ft to EOB.	h 14.0'		
14 - 1/// - 1	12777		14.0	*************************************	
16 S-J 22 ND	16"	vl, w, bl-gy, m(+)f S; massive.			
20 (17-19) 3 3					
22 S-2 28 18 ND (22-24) 23 17	15"	do 2" piece of wood ~23".			
26			26'		
28 S-3 10 25 ND (27-29) 60 60 ND	24"	d-vd, w, bl-gy, cm(+) S, a cf G; abd. shale chips and cuttings.	79		
30'		Refused @ 29'.		Probable bedrock	
NOTES:			***************************************		

EARTH TECH Albany, NY (518) 458-1313  Test Boring Log							Log	}	Boring No. MW17	
PROJE	CT: Free	man's Bri	dge Roa	d				Project i	Project No.: 38925	
CLIENT: New York State Department of Environmental Conservation								Datum: (	Grade	
PURPOSE: Monitoring Well Installation							Date Sta	rted: 11/01/01		
SUBCC	NTRAC	TOR: Pa	rtatt-Wo	lff				Date Fin	nished: 11/01/01	
METHO	DD: 4.25	" ID HSA		RIG: 1	R 300	OPE	RATOR: D. Thorna	laspecto	or: Kevin McGrath	
SAMPL	E INTER	VAL: Cor	ntinuous	SAMPI	LE DEVI	CE: Split Spoot			Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	FUD	WELL	REC	Geolo	gic Description		Observations	
		1				,	or mf(+) S, w CyS;	abd.		
~~~	Sl	3			8"	roots stems. L	Low plasticity	~1.0		
)	(0-2)	9	ИD		O	· ·				
•		6								
2		4				i, d, dk y-br, n occ. asphait&	n(+)f S, t(+) \$, t(-)	f G:		
	S2	8			9"	Occ. asphana	Concrete,			
3	(2-4)	7	ND		<i>a</i>					
4		6							·	
4		4				da.				
5	S3	3	ND		6"					
,) 	(4-6)	3	140		ō					
6		2				do; moist.				
		4				05, 110131.				
~	S4	5	ND		12"					
	(8-6)	6				1 1 1 1 1 1 1 1			- 7.5	
8		7								
	-	3				I, w, gy mf S.			Strong petroleum-like odor.	
9	85	2			6"	i   				
~~~	(8-10)	2								
10		3				End Bo	oring at 10.0'	10.0		
	1									
11	S6									
	(10-12)									
12 -						<u> </u>		******		

NOTES: Water level based on observation of apparent saturation in spoon sample.

Boring plugged to 8.5 feet, 3 feet of 2" screen set 5-8' bg.

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW17D  Page 1 of )		
PROJECT: Freeman's Bridge Ro	ad		Project No.: 38925		
CLIENT: New York State Depai	tment of Environn	ental Conservation	Datum: (	Grade	
PURPOSE: Monitoring Well In:	Date Sta	rted: []/]/00			
SUBCONTRACTOR: Parrati-W	olff		Date Fin	nished;   1/3/00	
METHOD: 8.25" HSA and 4.25" S	RIG: IR 300	OPERATOR: D. Thoma	lnspecto	or: Kevin McGrath	
SAMPLE INTERVAL: Standard	SAMPLE DEV	ICE: Split Spaon		Hydrogeologist	
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description		Observations	
10		8.25" HSA to 12' below grade with no sampling, 6" casing set and grouted into place, 4.25" spin casing with satndard sampling from 12 ft to EOB.	th		
12	<u> </u>		12.0'		
14			15.1		
16 — S-1 1907.3 (15-17)		Spin casing obstructed at 15' below by large/hard object. Spoon refused, roller bit refused.  Casing broke free of concrete collar, boring abandoned.  Casing grouted off to surface.  Boring relocated ~ 5' to west.  2nd attempt refused at 15' by shale probable bedrock.  Deep well location abandoned.	grade	Shale outrings.	
NOTES:			***************************************		

	TH TE( NY (518	<b>CH</b> 5) 458-131	13	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Test	Boring Log	Sheet 1	Boring No. MW18		
		man's Bri					Project No.: 38925			
CLIENT	New Y	ork State	Departn	nent of Er	ovironm	ental Conservation	Datum: C			
	~~~~~~~~	nitoring M					Date Sta	rted: 11/02/00		
		TOR: Pa		nished: 11/02/00						
METHO	)D: 4.25	" ID HSA		RJG: I	R 300	OPERATOR: D. Thoma	Inspecto	or: Kevin McGrath		
SAMPL	E INTER	VAL: Cor	atinuous	SAMPI	LE DEVI	(CE: Split Spoon	***************************************	Hydrogeologist		
Depth (Feet)	Sample Number	- Blow Count	PID	WELL	REC	Geologic Description		Observations		
· · · · · ·		2			***************************************	Topsoil + roots ~ 0.5				
1 ·-	\$1	8	18"			I, m, r&y-br mf S; occ CG, small bits of asphalt.				
,	(0-2)	10					<u></u> <u>1</u> .5	<b>1</b>		
2		7								
		5				do; no Gravel or debris at all. 1	Massive.			
3	S2 (2-4)	3 5	20*							
4		6 2				do; wet at 5.25'.				
5	S3 (4-6)	2	24"					XX 5.25		
	(7-0)	2	- parket description							
6		2				, .	7.0			
7	\$4 (6-8)	2	19"			I, wet, gray M.S.				
8		3			b b b b c c c c c	do.				
9	S5	3	22"							
	(8-10)									
10		2 2				do				
11	S6	3	18"							
	(10-12)	3								
12	2777	1	<u></u>							

NOTES: Water level based on observation of apparent saturation in spoon sample.

Auger advanced to 12.5', 2" well screen set 7-12'.

End Boring @ 12.5

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW19		
PROJECT: Freeman's Bridge Roa	d		Project No.: 38925		
CLIENT: New York State Departs	nent of Environm	ental Conservation	Datum: Grade		
PURPOSE: Monitoring Well Instr	illation		Date Started: 11/01/00		
SUBCONTRACTOR: Parrait-Wo	lff		Date Finished: 11/01/00		
METHOD: 4.25" ID HSA	RIG: IR 300	OPERATOR: D. Thoma	Inspector: Kevin McGrath		
SAMPLE INTERVAL: Continuous	SAMPLE DEVI	(CE: Split-Spoon	Hydrogeologist		
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description	Observations		
10		md, d, bk, cm S, a G; abd			
, SI <u>11</u>	16"	asphalt, fqt concrete.			
(0-2)					
2 19					
21		do.			
3 <u></u>	3"				
(2-4) 6					
4 4					
3					
5 — \$3 <u>2</u> (4-6) c	NR NR				
- (4-0) 2					
6 - 2		s, w, or-br & gray, Cy\$, w mf S;			
4		no plasticity.	7 O Spoon dripping wet		
7 — S4 — 3 (6-8)	18"		7.0 Spoon dripping wet		
- 3		l, w, gy, mf S.			
8		End Sorray (S. 9 ft	8.0		
		End Boring @ 8 0'			
9			Property		
10			The state of the s		
			and the same of th		
			· ·		
			· · · · · · · · · · · · · · · · · · ·		
12.	***************************************				

Plugged boring 6-8'.

Set 2" well at 3-6", well dry 1 hour after installation.

EARTH TECH Albany, NY (518) 458-1313	Test	Boring Log	Boring Page 1	g No. MW191 of 1
PROJECT: Freeman's Bridge	e Road		Project N	io.: 38925
CLIENT: New York State D	********************	ental Conservation	Datum: C	Grade
PURPOSE: Monitoring Wel			Date Star	rted: [1/03/00
SUBCONTRACTOR: Parra	*************		Date Fin	ished; 11/03/00
METHOD: 8.25" HSA and 4.2		OPERATOR: D. Thoma	Inspecto	r: Kevin McGrath
SAMPLE INTERVAL: Standa		CE: Split Speen		Hydrogeologist
Depth Sample Blow F	PID WELL REC	Geologic Description		Observations
(Feet) Number Count		8.25" HSA with no sampling to 8' be 4.25" spin easing with standard sam		
8 10 12 S-1	24"	), w, bl-gy mf S. t(+) \$, no plasticity		
14 (12-14) 1 1			-15	15' cS and fG in cuttings.
(17-19) 10 18	NR.		~21	Casing grinding loud
20 22 8-3 17 77		vst, w, gy, \$, w f \$, 1(-) f G; deeply imbedded shale pebbles, cut shale		Much stiffer, advance of casing very difficult
24 (22-24) 100/0.4	24"	frags at base. Refused @23 4' .	23.4	- Probable Bedrock
26				
30				

	TH TE , NY (51	CH 8) 458-13	13	Test Boring Log						Boring No. MW20 Sheet l of 1		
PROJE	CT: Free	man's Be	idge Roa	ıd		*************			Project	No.: 38925		
CLIEN	T. New	York State	e Departi	ment of E	nvitonm	ental Cor	servation		Datum:	Grade		
PURPO	DSE: Mo	nitoring V	Vell Inst	allation	****		***************************************	***************************************	Date Started: 19/31/00			
SUBCO	ONTRAC	TOR: Pa	rratt-Wo	olff					Date Fir	nished: 10/31/00		
METH	OD: 4.25	" ID HSA		RIG:	IR 300		OPERATOR: 4	D. Thoma	Inspect	or: Kevin McGrath		
SAMPL	E INTER	VAL: Co	ntinuous	SAMPLE DEVICE: Split Spoon						Hydrogeologist		
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC.		Geologic Descri	ption		Observations		
	S1 (0-2)	6 8 7 10			7"		r&or-br, m(+)f S occ brick.	i, l(+) mf (	à,			
2	\$2	30 7			9"		br c(+)mf S, a		2.5			
4	(2-4)	6 .2			J	abd. de	bris, mostly asp	halt and t	orick.			
5	S3 (4-6)	3 4 3			<b>1</b> "	do.				brick in shoe		
6	84	4 3 4			11"	do.	.*					
7 — — 8 —	(6-8)	6										
9	\$5	WOH WOH			0"	do			Andreas and the second	!		
10	(8-10)	WOH 1				de						
-		HOW	A0000000			do.			10.5	Sheen on water at ~10-11'.		
11	S6 (10-12)	WOH 1			24"	s, w, gy i, wet, r	Cy\$, w f S.		11.0			
12 —		1				***************************************	End Boring at	12 0'				
NOTES:	Water le	vel based o	on observ	ation of a	pparent s	aturation	in spoon sample.		***************************************			

	H TECH NY (518)		3		Test	Boring Log	Boring Page 1 of	No. MW20D	
	II: Freem			i			Project No.: 38925		
					vironme	ntal Conservation	Datum: Grade		
	SE: Moni						Date Start	ed: 11/01/00	
	NTRACT						Date Fini	shed;   1/03/00	
	D: 8.25"			OPERATOR: D. Thoma	Inspector	. Kevin McGrath			
	E INTERV					CE: Split Spoon		Hydrogeologist	
Depth	Sample	Blow Count	PID	WELL	REC	Geologic Description		Observations	
(Feet)	Number	NA			a gyvenová na Addita v	8.25" HSA with no sampling to 6" steel casing set and grouted a: 4.25" Spin casing advanced thro standard sampling.	nd left overnig	ht to cure.	
10							14.0'		
16 —	S-1	4 6				l. w. br-gy, mf S, I(-) \$			
18 20 -	(17-19)	19 16			16"				
22	S-2 (22-24)	19 22 27 11	7		16"	I-md, w, br-gy, c(+) m S, w, cf G rounded to well rounded wash	: ed stone.	Hard drilling.	
26 ~ 28 ~	\$-3 (27-29)	10 1 22 2	22		3"	do; large rounded stone in sho	e. 30		
30 ~	<u> </u>	4				End boring @ 3	0'.	04445555555555555555555555555555555555	

1	TH TE , NY (51	<b>CH</b> 8) 458-13	313		Tes	t Boring Log	Borin Sheet	ng No. MW21		
PROJE	CT: Free	man's Br	idge Roa	d			Project	Project No.: 38925		
CLIEN.	T: New	York Stat	e Departi	ment of E	nvironm	ental Conservation	Datum:	Grade		
PURPO	DSE: Moi	aitoring \	Well Inst	allation	*****		Date St	arted: 11/01/00		
SUBCC	ONTRAC	TOR P	uratt-Wo	iff			Date Fi	nished: 11/01/00		
METH	OD: 4.25	" ID HSA		r RIG: I	R. 300	OPERATOR: D. Th	ioma Inspec	tor: Kevin McGrath		
Sampl	E INTER	.VA <sub>.</sub> L: Co	ntinuous	SAMPI	TE DEA.	ICE: Split Spoon		Hydrogeologist		
Depth . (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations		
		4				Topsoil, roots				
	S1 (0-2)	4 6	ND		14"	I, m-w, br cm(+)f S, I(-), Cyt occ, bits of brick and concre				
2	02	2 18 14			9"	do; pkts. of gy \$, abd. brick asphalt.	/concrete/			
3	\$2 (2-4)	14 10				i, d, bi-gy mf S, a Cy\$; t(+)	mf G:			
5	S3 (4-6)	5 6 3	ND		9"	occ. brick, asphalt & concre				
6		1 3				do.				
7	\$4 (6-8)	3	ND		6"		7.0			
§		3			14"	I, m-w, gy-br mf S, s Cy\$, lo plasticity, somewhat mottled		<u>™</u> 8.5 °		
9	S5 (8-10)	HOW	ND							
10 -	S6	1	ND .		24"	do.	11.0			
12	(10-12)	WOH				I, w, gy m S.				
3338888888888888888		**************	*****		************	End Boring at 12.0	1			

Auger advanced to 10', bore hole plugged to 9.5', 2: well screen set 5-9'.

	H TECH , NY (518)		13				i	oring No. MW21D	
PROJE	CT: Freen	an's Bri	dge Roa	d			Project N	No.: 38925	
CLIEN	T: New Y	ork State	Departr	nent of I	Environm	ental Conservation	Datum: 0	Grade	
	OSE: Moni						Date Sta	rted: 3/27/01	
SUBCO	ONTRACI	OR: Pai	rrati-Wo	lff .			Date Fin	ished; 3/30/01	
METHO	DD. 8.25" l	HSA and	4.25" SC	RIG	CME85	OPERATOR: R. Nevaika	inspecto	or: Kevin McGrath	
SAMPL	E INTERV	'AL: Star	ıdard	SAMI	LE DEVI	ICE: Split Spoon		Hydrogeologist	
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations	
2 - 4 - 5 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 22 - 22 - 22 - 22 - 22 - 2	S1 (6-8) S2 (8-10) S3 (10-12)	WH/WH  1/1  WH/WH  1/1  1/1  1/1  1/1	ND ND		9" 17" 24"	Blind auger to 6 feet below g  st, w, dk y-br \$-Cy\$, l(-) f S, f G; ang subangular "chips", and occ course rounded pebbles. st, w, gy-br \$, w y-br f S; mittld with pkts of vf S.  do.  l, w, gy, m(+)f S, t(+) \$; occ pkts f S  Blind auger from 12-16 feet below Steel casing set 3/27/01, and groute  l, w, gy mf(+) S, l(-) f G	gular to well lns and 11.0	"paste" like mud of fine	
24 -	S5	10/11		比上	18"	do: more Gravel			

NOTES: 8.25" HSA advanced without sampling to 6 feet below grade, samples collected from 6-12' to confirm alluviam/sand interface. HSA advanced without sampling to from 12-16 feet below grade. 6" steel casing set and grouted into place at 16', 4.25" ID drive casing used to advance remainder of boring with saturdard sampling.

Casing driven with 300 lb hammer, samples collected with 140lb hammer.

32   in wash water, mostly seds with some metas  34   \$7   46/13     46/13     46/13     46/13     48/13     48/13     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14     48/14		TH TEC , NY (51)	C <b>H</b> 8) 458-13	313		Tes	t Boring Log	ing No. MW21D	
28			i	PID	WELL	REC	Geologic Description	Öbservations	
S6   19/5   22"   do.	26	(23-25)	22/23						
32   in wash water, mostly seds with some metas  34   \$7   46/13   46/13   36   38   \$11/12   38   \$3   \$11/12   40   42   44   \$9   6/7   (43-45)   10/14   48   \$10   40/20   (48-50)   33/49   50   \$11   49/37   51   \$11   49/37   52   \$11   49/37   56   \$11   49/37   56   \$11   49/37   56   \$11   49/37   56   \$11   49/37   57   \$16   \$0   \$0   \$0   \$0    16°   \$0   \$0   \$0   \$0    16°   \$0   \$0   \$0   \$0    16°   \$0   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0   \$0    16°   \$0    16°   \$0    16°   \$0    16°   \$0    16°   \$0    16°   \$0    16°		l .				22"	do.		
36			*****			16"	do.		
S8   11/12		(35-38)	14/13			, 0			
44						12"	do.		
48 S10 40/20 do 48.5  (48-50) 33/49  50 Vst, w, gy \$, 1(+) f S, 1(-) f G; rounded to angular pebbles and chips.  51 S11 49/37 do: deeply imbedded gravel						16"	de		
\$10                                                                                                                                                                                                                                                                                                                                                     \q	46								
S11 49/37 do: deeply imbedded gravel		9				14"	vst, w, gy \$, l(+) f S, l(-) f G; rounded		
(53-55) 50=0.4 Refused @ 54.4 cut shale in shoe	54					16"	•		

NOTES: Till layer encountered at 48.5, boring refused at 54.4', cut Canajoharie shale in shoe, likely bedrock. 10 foot well screen set at 38-48 feet below grade.

EARTH TECH Albany, NY (518) 458-1313		Test	Boring Log	Boring No. MW22 Sheet 1 of 1 Project No.: 38925		
PROJECT: Freeman's Bridge	Road		L. Canada Wilson	Datum: C		
CLIENT: New York State De		rvironnie	nta: Conservation	Date Stan	*******************	
PURPOSE: Monitoring Well		ished: 3/27/01				
SUBCONTRACTOR: Parrati			OPERATOR: B. Nevatka			
METHOD: 4.25" ID HSA	RIG: II		E: Split Spoon	1112	Hydrogeologist	
SAMPLE INTERVAL: Confine  Depth Sample Blow PI  (Feet) Number Count	***************************************	REC	Geologic Description	***************************************	Observations	
2 3 - 4			Augers advanced blind to 4' below	grade.		
5 - S-1 - N (4-6) WOH	at a distribution of the d	< 3*	SS, W, gy, \$, I(-) f S; occ. plant fiber		Cut concrete in shoe, hard drilling to 5' then casy.  spoon wet at ~ 4.5.  Strong odor	
7 - S-2 WOH (6-8) 3 2 8	ND .	22"	End boring @ 8.0		Apparent sheen on soil. Water pouring out spoo	
9 —						
11						

NOTES: Water level based on observation of apparent saturation in spoon sample.

PID Malfunction, Fault probable lamp burnout, readings unreliable.

	TH TE , NY (518	CH 8) 458-13	313		Test	t Boring Log	Borin Sheet 1		
PROJE(	CT: Free	:man's Bri	idge R.oa	d.			Project 1	No.: 38925	
CLIENT	f: New 1	York State	e Departr	ment of E	nvironm	iental Conservation	Datum: Grade		
PURPO	SE: Mor	nitoring V	Well Inst	allation			Date Sta	irted: 3/27/01	
SUBCO	NTRAC	TOR: Pa		Date Fir	nished: 3/27/01				
METHO	)D: 4.2	25" ID HS/	A.	RIG:	CME85	OPERATOR: R. Nevatka	Inspect	or: Kevin McGrath	
SAMPLI	E INTER	LVAL: Cor	ntinuous	SAMPI	LE DEVI	ICE: Split Spoon	600000000000000000000000000000000000000	Hydrogeologist	
Depth (Feet)	Sample Number	1	PID	WELL	REC	Geologic Description		Observations	
;	S1 (0-2)	2 2 5	МD		18"	I, w, dk r-br, m(+)f S, w \$ & f G; abd brick, concrete, asphalt, and plant fit	ber		
3	\$2 (2-4)	6 8 5	иĎ		8"	do; moist, more \$ to Cy\$, less G; 4" of brick dust, pekts of y-br m \$		drumlid o-ring on auger	
5.	S3 (4-6)	2 2 2 2 2 2	ND		6"	do; coarser Gravel, rounded to subar shale and limestone.	5.0	bits of cermaic tiles	
7	S4 (6-8)	6 10 3	ИД		5"	ss, w, y-br \$ a Cy\$, J(-) f S, occ lyrs fiber, low plasticity	woody	<b></b>	
9 -	\$5 (8-10)	3 2 2 2	Фи		7"	do: abd wood, im bk \$ & f \$		Water poruing off spoon	
-	\$6 (10-12)	0	\$ 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		< 2"			cut wood and bk \$ in shoe	
12								······································	

	<sup>i</sup> s Bridge F No.: 3892				TES	T BORING LOG	BORING NO. MW23 Sheet 2 of 2	
Depth (Feet)	Sample Number	Blow	PID	WELL	REC	Geologic Description	Observations	
13	\$7 (12-14)	6			24"	ss, w, bk, \$, l(-) f S; abd woody fiber.	block of out wood in layer of cm(+) S 13-13.5	
14	\$8 (14-16)	1			18"	do:	5.0 sharp contact	
		4				End Boring @16.0		
7 -								
19 -								
20 -			-					
2.2								
23	-							
25								
27								

Notes: Augers advanced to 14.0' below grade only. Spoon hole plugged with bentonite chips 10' of 0.10 slot screen set from 3.5 to 13.5.

EARTH TECH Albany, NY (518) 458-1313	Tes	t Boring Log	Boring No. MW23D Page 1 of 3			
PROJECT: Freeman's Bridge Road	d		Project l	No.: 38925		
CLIENT: New York State Departn	nent of Environm	ental Conservation	Datum: (	Grade		
PURPOSE: Monitoring Well Insta	llation		Date Sta	orted: 3/27/01		
SUBCONTRACTOR: Parratt-Wol	lff		Date Fir	oished; 3/29/01		
METHOD: 8.25" HSA and 4.25" SC	RIG CME85	OPERATOR: R. Nevatka	Inspecto	or: Kevin McGrath		
SAMPLE INTERVAL: Standard	SAMPLE DEV	(CE: Split Spoon		Hydrogeologist		
Depth Sample Blow PID (Feet) Number Count	WELL REC	Geologic Description		Observations		
2 4 6 S1 2/2 (6-8) 3/2 8 10 112 114	2			attempted to collect sample above wt to replace NR sample in MW23. No recovery		
16						
S2 5/3 (18-20) 2/2	6"	1, w, gy mf S, l(-) \$; occ lns \$ and woo	dy fiber.	reconstitution		
				Internation		
22				десения по		
24 83 5/2	<u> </u>	do				
NOTES:	***************************************		***************************************			

EARTH TECH Albany, NY (518) 458-1313					Test	Boring Log	Boring No. MW23D		
Depth (Feet)	Sample Number	Blow Count	PID	WELL	REC	Geologic Description		Observations	
26	(23-25)	6/4							
28	\$4 (28-30)	9/39 39/37			12"	md-d, w, gr-gy cm S, w G; well rou & metas.	nded seds	abundant rock chips in wash water	
30									
34 —	\$5 (33-35)	15/25 19/19			85	do.			
36 -			**************************************						
38 — - 40—	\$6 (38-40)	13/11			14"	do			
42 — 44 — 46 ~	\$7 (43.45)	13/13	· · · · · · · · · · · · · · · · · · ·		12"	l, w, gy, mf S, l(-) \$.			
48 -	S8 (48-50)	42/26 22/15	-		8"	md-d, w, gr-gy, c(+)mf S, w G			
52 ·  54 ·	\$9 (53-55)	10/17			9"	de.			

EARTH TECH Albany, NY (518) 458-1313			13		Test	t Boring Log	Boring No. MW2		MW23D
Depth (Feet)	Sample Number		PID	WELL	REC	Geologic Description		()	oservations
***************************************	7777		***************************************					]	oin line to Page 2
56							56.5		
58	S10	10/19			16"	s, w, gy Cy\$, t(+) f S; moderate pals	ticity,		
60	(58-60)	15/12			10	interbedded laminae of Cy\$ and f S.			
62		10/33							•
64	\$11 (63-65)	12/11 10/5			18"	do.			
66									
68 —	\$12 (68-70)	5/5 8/10			24"	do. '			
70						End Boring @ 70.0			
72									
						,			
									Account
							-		
									- I
NOTES:		) 		***************************************					***************************************

	TH TE	CH 3) 458-13	13		Test	Boring Log	Borin Sheet 1 c	g No. MW24
}		man's Bri					Project.)	No.: 38925 -
CLIEN	I: New i	York State	Departr	nent of E	nvironm	ental Conservation	Datum (	Grade
PURPC	SE: Mor	nitoring V	√ell Insta	lation			Date Sta	rted: 3/2.8/01
SUBCC	NTRAC	TOR: Pa	rratt-Wo	lff			Date Fin	ished: 3/28/01
METHO	DD. 4.2	s" ID HSA	\	RIG:	CME85	OPERATOR: R. Nevatka	Inspecto	3
SAMPL	e inter	VAL: Cor	ntinuous	SAMP	LE DEVI	CE: Split Spoon	***********************	Hydrogeologist
Depth (Feet)	Sample Number	1 1	PID	WBLL	REC	Geologic Description		Observations
		won				l, w. r-br, mf S, w \$: abd plant fiber a	nd roots	
	S1 (0-2)	2	ND		24"			
2	0.5	7 9 9				md, dk r-br, mf S a \$, t(+) fine G; occ brick, concrete, and asphalt. Thin la		
3	S2 (2-4)	24	DN.		18"	from 3-3.5', occ pkts of shale chips.	~3.75	
4	S3	15 10	ND		8"	ss, m, gy & o-br, \$, a vf \$; somewhat mtild, lns a pkts of o-br f \$		water pouring off spoon
6	(4-6)	7					6.0'	
7	54 (6-8)	2 2	ND		21"	I, m-w, o-br mf(+) S, I(-) gy \$; very lns & pkts of gy \$ and m S, abd iro		
S		) ;				do.		
9	S5 (8-10)	2	ND		12"			
10	<u> </u>	WOH				do, increasing medium sand conten	t	-
1)	S6 (10-12)	1	ND		24"			
12	<u> </u>	1						<u></u>

NOTES: Water level based on observation of apparent saturation in spoon sample.

	r's Bridge No.: 3891				TES	BORING NO. MW24 Sheet 2 of 2	
Depth (Feet)	Sample Number	1 2	PID	WELL	REC	Geologic Description	Observations
13 —	S7 (12-14)	1/12 ·			24"	l, w, it br m(+)f S, t(+) \$	
15	\$8 (14-16)	WOH 1/12 			24"	l, w bk-gy, mf(+) S, t(+) \$.	
17 —	S9 (16-18)	3 3 4			24"	do.	
19	S10 (18-20)	2 3 4 11			22"	do. 18.5	
21 —	S11 (20-22)	10 14 24 42			22"	do; gravel consists of rounded to subangular sandstone, quartzites, limestone chips.	
23	-					23.0'	very coarse hard grindin to 23', then very easy, grey paste like silty fine sand from 23-26' in cuttings
25							in outsings
27 —	·					End Boring @ 26.0'	

Notes: unexpected shift to gravel at approximately 20 feet below grade, blind augers advanced from 22 to 26 feet in attempt to "tag" bedrock surface. Boring discontinued at 26 feet and well completed, with 15' 11" of screen placed from 6-22 feet.

	<b>●</b> Earth	nTech				Monito	ring Well Boring	Log	M. Well N	lo.: MW ( 25 )
PROJEC	CT: Freeman's E	Bridge PDI					PROJECT No.: 83060.02	2	ET GEOLOGIST	: Lucas Benedict
CONTRA	ACTOR: Geolog	ic, Inc.					DRILLER: Joe Menzel, J	ludson Powell	PAGE: 1 of 1	DATE: 4/25/05
BORING	LOCATION: W	est-northw	est of build	ing in	undeve	loped field	SITE LOCATION: Glenv	ville, New York	SURFACE	ELEVATION: NA
	WATER LEVEL	.S				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPI	E		CME 45C	Hollow Stem Auger	Split Spoon		
			I.D.				4.25"	2"		
			WEIGI					140#		
			FALI			1		30"		
Depth	Penetrometer	Blows	Recovery	PID	Temp.		SAMPLE DESCRIPTION	AND STRATUM CHA	NGES	REMARKS
(II) bgs	(T/ft <sup>2</sup> ;KG/cm <sup>2</sup> )	per/6"	(feet)	(ppm)	(°F)					
0			0.5'/2.0'		<del> </del>	0 0'-0 4' Sof	ft, Moist to Damp, Br	rown Clavey Silt I	ittle Medium to	Tongoil and Poots
		5 4	0.572.0				Trace Fine Gravel	OWII, Clayey Olit, I	Little Mediaili to	Topsoil and Roots
1		3	<del> </del>	<del> </del>	<del> </del> -	1	ose, Dry, Grey, Coar	se to Fine Gravel	Non-plastic	Fill Material to 6.0' bgs
-		9	1			0.4 0.0 200	500, <i>1</i> 17, 0107, 0001	oo to i mo Graver,	Non plastic	i iii watchar to o.o bgs
2		17	1.4'/2.0'	<b></b>		2.0'-2.4' Loc	ose, Wet, Construction	on and Demolition	Debris, Brick	Non-plastic
		13	1				ft, Wet, Brown, Coar			Non-plastic
3		28	† <u>-</u>	<b> </b>	1		, Trace Construction			r
_		31	1			2.7'-3.4' Loc	ose, Wet, Black, Asp	halt Gravel, Trace	Clay and Silt	Water Table observed at
4		50/0.1	None	<b> </b>	1	1				approximately 3.0' bgs based on moisture in spoon casing;
5		100/0.3								Odor observed; Non-plastic
]		1	1.0'/1.0'				ry Soft, Saturated, B			
6		3				4	ce Wood Fragments			
<u> </u>			1.4'/2.0'				f, Moist to Damp, Br	own/Grey Mottled	, Clayey Silt,	Strong Odor Observed
7		W.O.H.	<b>_</b>			Trace Fine				
		1					ft to Stiff, Saturated/			Odor Observed; Consistency and Moisture Content Varied
8		2	0.01/0.01		<b> </b> -	_	yey Silt, Trace Fine			Odor Observed
-			2.0'/2.0'			Sand, Medi	f, Damp to Wet, Bro	wn/Grey Mottled, I	wealum to Fine	Odor Observed
9		1	<b></b>			4	ry Soft, Saturated, D	ark Gray Madium	to Fine Sand	Odor Observed
-		W.O.H. 1	ł				and Silt, Trace Mediu			Oddi Obddivod
10 —			<del> </del>			Plasticity	,			
l						9.0'-9.5' Sof	ft, Wet, Dark Grey, M	ledium to Fine Sa	nd, Some Clay	
11			<b>†</b>	<b> </b>			ace Fine Gravel, Med		,	
40			1			9.5'-10.0' St	tiff, Wet, Dark Grey/E	Brown Mottled, Me	edium to Fine	
12						Sand, Medi	um Plasticity			
13 —			<u> </u>							
	<b></b>		] <b></b>				@ 10.0' bgs; Drillers			
14			<b>↓</b>	<b> </b>	<b> </b>		extent of the Fill. The of Fill was screened		6.0' bgs and	
] .			1			une milerval	oi fiii was scieened	•		
15 —	 		<b></b>	<b> </b>	<b></b>	4				
			1							
16 —	 	<b> </b>	<del> </del>	<del> </del>	<del> </del> -	-				
			1							
17 —		ł	<del> </del>	<del> </del>	<del> </del> -	1				
l •			1							
18—			t	<del> </del>	<b> </b>	1				
			1							
19 —			<b>†</b>	<u> </u>	1	1				
20	1		1	L	L					
20 —			<u> </u>	]	]	1				
21 —	<u> </u>		<u> </u>	<u> </u>	<b></b> _					
	<b></b> _		] <b></b>							
22 —			<b>_</b>	<u> </u>	<b> </b>					

	Earti	hTech				Monitor	ring Well Boring Log M. Well			No.: MW ( 26 )		
PROJE	CT: Freeman's E	Bridge PDI		<u> </u>			PROJECT No.: 83060.0	2	ET GEOLOGIST	: Lucas Benedict		
CONTR	ACTOR: Geolog	jic, Inc.					DRILLER: Joe Menzel,	Judson Powell	PAGE: 1 of 1	DATE: 4/26/05		
BORING	LOCATION: W	est of onsi	te building	along	roadway	/	SITE LOCATION: Glen	ville, New York	SURFACE	ELEVATION: NA		
	WATER LEVEL	_S				RIG	CASING	SAMPLER	CORE	TUBE		
DATE	DEPTH	TIME	TYP	E		CME 45C	Hollow Stem Auger	Split Spoon				
			I.D.				4.25"	2"				
			WEIG	HT				140#				
			FALI	L				30"				
Depth	Penetrometer	Blows	Recovery	PID	Temp.		SAMPLE DESCRIPTION	AND CTDATUM CUA	NOTO	REMARKS		
(ft) bgs	(T/ft <sup>2</sup> ;KG/cm <sup>2</sup> )	per/6"	(feet)	(ppm	(°F)		SAMPLE DESCRIPTION	AND STRATUM CHA	NGES	REWARKS		
0—												
0		13	1.2'/2.0'				ft, Wet, Brown, Clay		parse to Fine	Topsoil and Roots		
1		16	<u> </u>		<u></u>	Sand, Little	Medium to Fine Gra	ivel				
		9		Ĭ	I		ose, Damp, Black, C	oarse to Fine Gra	vel, Little	Asphalt; Odor Observed		
2—		3			<u> </u>	Medium to F						
_	]	2	1.0'/2.0'				f, Damp to Wet, Bro			Odor Observed		
3—	<b>_</b>	2	<b>_</b>	ļ	<b> </b>	Trace (+) M	edium to Fine Grave	el, Frace Fine San	d, Low Plasticity	<b>/</b>		
-	1	3	1					(0	a::			
4	<b> </b>	4	<b> </b>	<b> </b>	<b> </b>		ff, Damp to Wet, Bro					
,		2	1.0'/2.0'				Sand, Trace (-) Fine	Gravel, Medium	riasticity			
5—		2	<b>_</b>	<b> </b>	ļ	4.0'-5.0' Sar	me as Above					
		2	4									
6—	<u> </u>	2	0.01/0.01		<b> </b>	0.01.7.01.0	Al					
· ·			2.0'/2.0'				me as Above	Marillana (a. El a. d	David Linda	Occasional Lenses of Clayey		
7—		W.O.H.	<b></b>	<b></b>	<b></b>		ft, Saturated, Brown Trace Fine Gravel,		Sand, Little	Silt		
		1	-			Clayey Siit,	riace i ille Giavei,	LOW I lasticity				
8—		1		<del> </del>	<b></b>	End Boring	@ 8.0' bgs; Drillers	moved laterally th	on radrillad to			
•			ł				extent of the Clayey					
9—	<b></b>			<del> </del>	<del> </del>		the Clayey Silt inte					
•		_					, ,					
10 —	<b></b>		<b></b>	<del> </del>	<del> </del>	1						
•			1									
11 —	<b></b>	<b> </b>	<b></b>		<b></b>	1						
	•		1									
12—				1	<b> </b>	1						
40			1									
13—	T	1	T	<b> </b>	1	1						
14 —	1		1	L	L							
14			]		]							
15 —			<u> </u>			]						
	] <b></b>		] <b></b>									
16—	<b></b>	<b> </b>	<b></b>	ļ	ļ	1						
	]		]									
17—	<b> </b>	<b> </b>	<b>_</b>	<b> </b>	<b> </b>	]						
-	1		1									
18—	<b> </b>	<b> </b>	<b></b>	<b> </b>	ļ	1						
	4		4									
19 —	<b>ļ</b>	<b> </b>	<b></b>	<b></b> -	<b> </b>	4						
	4	<u> </u>	4									
20 —	<b></b>	<b> </b>	<b></b>	<b></b> -	<b> </b>	4						
,	4	<u> </u>	4									
21 —	<b>ļ</b>	<b> </b>	<b></b>	<b></b> -	<b> </b>	4						
,	-		1									
22 —	<b></b>	<del> </del>	<b></b>	<del> </del>	<b> </b>	1						

	<b>●</b> Earth	Tech				Monito	ring Well Boring	J Log	M. Well	No.: MW ( 27 )
PROJEC	T: Freeman's E	Bridge PDI					PROJECT No.: 83060.02	2	ET GEOLOGIST	Γ: Lucas Benedict
CONTRA	ACTOR: Geolog	ic, Inc.					DRILLER: Joe Menzel, J	Judson Powell	PAGE: 1 of 1	DATE: 4/27/05
BORING	LOCATION:So	utheast co	rner of build	ding; N	ear ov	erhead door	SITE LOCATION: Glenv	ville, New York	SURFACE	ELEVATION: NA
	WATER LEVEL	S				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPE	E		CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.				4.25"	2"		
			WEIGI					140#		
			FALI					30"		
Depth	Penetrometer	Blows	Recovery		Temp.	5	SAMPLE DESCRIPTION	AND STRATUM CHAN	GES	REMARKS
(II) bgs	(T/ft <sup>2</sup> ;KG/cm <sup>2</sup> )	per/6"	(feet)	(ppm)	(°F)	0.01.0.E1.Ma	dium Stiff, Moist, Bro	Dorle Cross Co	oros to Fina	2" Pieces of Asphalt at bottom of
0	1.25@0.25'	40	1.4'/2.0'		<b></b> -		Clay and Silt, Little			the 0.0-0.5 interval
-	1.0@1.0	12 8	1.4/2.0				dium Stiff, Moist, Re			A 0.1' interval from 0.11'-0.12'
1 —	<0.5@1.0	7	<b></b>				d Silt, Little Coarse		o i ille Glavei	bgs of a micaceous, vesicular
-	1.25@1.3	5				-	t, Moist, Black, Medi		Some Clay	substance with conchoidal fracture. Interpreted as resin of
2—	1.20 @ 1.0	3	1.3'/2.0'			and Silt	.,		Come Cia,	some kind.
-		3	1107210			1.3'-1.4' Me	dium Stiff, Moist, Bro	own, Medium to Fir	e Sand	1.2'-1.3' : Odor Observed;
3		3	<b></b>				ose, Damp, Brown, (	•		Rubber Gasket found
-		3	1			Coarse to F	ine Gravel, Trace Cl	ay and Silt		2.0'-2.2' Asphalt Pieces;
4	<0.5@4.6'	1	1.0'/2.0'			2.2'-3.3' Sof	t, Damp, Black/Whit	e Mottled, Coarse	to Fine Sand,	Interpreted as Sluff
5	1.0@4.9'	2	1			Some Clay	and Silt, Little Coars	e to Fine Gravel		2.2'-3.3' Strong Odor; White
5—		2				4.0'-4.4' Sar	ne as above, Becom	nes more competer	nt with depth	mottling is Clay/Silt sized
6		1	1				y Soft/ Loose, Wet,		ine Sand,	4.0'-4.4' Interpreted as Sluff
0	1.0@6.8'	2	1.6'/2.0'			Coarse to F	ine Gravel, Trace Cl	ay and Silt		6.0'-6.6' Interpreted as Sluff
7		1					se, Moist, C&D, brid			
ļ ·	1.0@7.4'	2					t, Damp, Dark Brow	n/ Dark Grey, Clay	ey Silt, Mediur	n l
8		1				to High Plas	•			
	1.0@8.7'	2	1.0'/1.0'				se, Wet, Brown, Co			8.0'-8.4' Interpreted as Sluff
9		2	4 51/0 01				t, Damp, Dark Brown		-	8.4'-9.0' Becomes more competent with depth
-		1	1.5'/2.0'			Little Clay a	t, Damp to Wet, Dar	k Brown/ Dark Gre	y, Fine Sand,	9.0'-9.5' Interpreted as Sluff
10 —		1				-	ose, Wet, Dark Brow	n/Gray Coarsa to	Fine Gravel	9.0 -9.5 interpreted as oldin
-		W.O.H. 1	1				Silt, Trace Coarse to	•	ille Glavei,	
11 —			<b></b>				t, Moist to Damp, Da		vn. Clavev Sili	
-			1			0 0.0 00.	ι,οιστισ 2 αρ, 2 α	a 5.5,7 2 a 2.5	,, .,	
12						9.0'-9.5' Loc	se, Wet, Dark Brow	n, Coarse to Fine (	Gravel, and	
			1				Trace Coarse to Fin		•	
13 —						9.5'-10.5' Sc	oft, Wet to Saturated	l, Dark Brown/Dark	Grey, Fine	
1.4			1			Sand				
14 —										
15 —			<u> </u>		<u> </u>					
			]			_	@ 11.0' bgs. Drillers	auger to 10.0' bgs	. Clayey Silt	
16			<b>_</b>		<u> </u>	interval was	screened.			
] .										
17 —										
] -										
18			<b></b>		<b></b> -					
-			-							
19—			<del> </del>		<b></b> -					
-			1							
20 —			<del> </del>		<del> </del>					
L			1							
21 —			t							
20			1							
22 —			T							

	Earth	nTech Hosel List. Company				Monitor	ring Well Boring	J Log	M. Well N	No.: MW ( 28 )
PROJEC	CT: Freeman's E	Bridge PDI					PROJECT No.: 83060.0	2	ET GEOLOGIST	: Lucas Benedict
CONTR	ACTOR: Geolog	ic, Inc.					DRILLER: Joe Menzel,	Judson Powell	PAGE: 1 of 1	DATE: 4/27/05
BORING	LOCATION:No	rthwest co	rner of build	ding; N	lear ove	erhead door	SITE LOCATION: Glen	ville, New York	SURFACE	ELEVATION: NA
	WATER LEVEL	S				RIG	CASING	SAMPLER	CORE	TUBE
DATE	DEPTH	TIME	TYPI	E		CME 45C	Hollow Stem Auger	Split Spoon		
NA			I.D.				4.25"	2"		
			WEIGI	НТ				140#		
			FALI	_				30"		
Depth	Penetrometer	Blows	Recovery	PID	Temp.	,	CAMPLE DECODIDATION	AND OTD ATUM OU AND	250	DEMARKO
(ft) bgs	(T/ft <sup>2</sup> ;KG/cm <sup>2</sup> )	per/6"	(feet)	(ppm)	(°F)	`	SAMPLE DESCRIPTION	AND STRATUM CHANG	jES	REMARKS
						0.0'-0.7' Loc	se, Moist, Black wit	h Brown pockets, C	oarse to Fine	Asphalt Surface and Subase
0-	2.25@0.5'	32	1.5'/2.0'			Gravel, Som	ne Coarse to Fine Sa	and, Trace Clay and	d Silt	Material
		15				0.7'-1.5' Loc	ose, Moist, Light Gre	y, Coarse to Fine G	Gravel, Coarse	Limestone fill and other subase
1 —		9			<b>†</b>	to Fine Sand	d, Trace Silt and Cla	ny		Material
		8				2.0'-2.8' Sar	me as Above			2.0'-2.8' Interpreted as Sluff
2-		8	0.8'/2.0'			4.0'-4.5' Loc	ose/Medium Stiff, Mo	oist, Dark Grey, Coa	arse to Fine	4.0'-4.5' Interpreted as Sluff;
		12				Gravel, Som	ne Clay and Silt, Tra	ce Fine Sand, Non-	plastic	Material is mostly loose with Cohesive portions
3—		7				4.5'-5.9' Stif	f, Moist to Damp, Br	own/Grey Mottled,	Clay, Trace	Coriesive portions
_		3				Fine Gravel	, High Plasticity			4.5'-5.9' Odor Observed; Black
4	1.75	2	1.9'/2.0'			6.0'-6.5' Loc	ose/Medium Stiff, Mo	oist, Dark Grey, Coa	arse to Fine	Sticky Substance observed at 5.0' bgs
٠ .	1.5	2				Gravel, Som	ne Clay and Silt, Tra	ce Fine Sand, Non-	plastic	5.0 bgs
5—	4 75	3				6.5'-7.9' Stif	f, Moist to Damp, Br	own/Grey Mottled,	Clay, Trace	6.0'-6.5' Interpreted as Sluff;
	1.75	3				Fine Gravel	, High Plasticity			Material is mostly loose with Cohesive portions
6	1.25	4	1.9'/2.0'			8.0'-8.5' Loc	ose/Medium Stiff, Mo	oist, Dark Grey, Coa	arse to Fine	Coriesive portions
-	1.0	4				Gravel, Som	ne Clay and Silt, Tra	ce Fine Sand, Non-	plastic	8.0'-8.5' Interpreted as Sluff;
/ —	1.5	3				8.5'-8.9' Stif	f, Moist to Damp, Br	own/Grey Mottled,	Clay, Trace	Interpreted as Sluff; Material is mostly loose with Cohesive
	1.25	2				Fine Gravel	, High Plasticity			portions; Moisture increased with
8	2.25	2	1.9'/2.0'		<b></b>	10.0'-10.5' \	ery Soft, Saturated	, Dark Brown, Clay	and Silt, Some	depth
	1.5	2				Coarse to F	ine Gravel			10.0'-10.5' Interpreted as Sluff;
9—	1.25	2			<b> </b>	10.5'-11.8' \	ery Soft, Saturated	, Dark Grey/Brown	Mottled, Clay	Interpreted as Sluff; Material is mostly loose with Cohesive
10	1.5	2								portions
10 —	<0.5	1	1.8'/2.0'				oose/Medium Stiff,			
11	<0.5	1				Gravel, Som	ne Clay and Silt, Tra	ce Fine Sand, Non-	plastic	
11 —		W.O.H					Stiff, Moist to Damp,	Brown/Grey Mottle	d, Clay, Trace	
12—		1				Fine Gravel	, High Plasticity			
12	1.5	12	1.9'/2.0'			13.0'-13.5' L	oose, Wet, Grey/Da	ark Grey, Coarse to	Fine Gravel	Fill Material; Possibly from below
13	1.0	24				13.5'-13.9' L	Loose, Saturated, Da	ark Grey, Coarse to	Fine Sand,	prexisting underground storage tank
13-	<0.5	24				Little Coarse	e to Fine Gravel			tarik
14	νο.5	12	<u> </u>		<u> </u>					
14										
15—			<u> </u>		<u> </u>		@ 14.0' bgs. Drillers		, apply 2.0' of	
						sand. Clay/	Clayey Silt interval	was screened.		
16—			<u> </u>		<u> </u>					
17—					<u> </u>					
l'' .										
18					<u> </u>					
19—										
.ٽ ا			]							
20 —			<b>_</b>		<b></b>					
			]							
21 —			<b>_</b>		<b></b>					
Γ.			]							
22—			<b>_</b>	 	<b></b>					



## EarthTech A BETTER TOMORROW made possible

40 British American Blvd. Latham, New York 12110

## FIELD BOREHOLE LOG

MONITORING WELL NO.: MW-25

TOTAL DEPTH: **10.0'** 

### PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **NYSDEC Freemans Bridge Site** 

SITE LOCATION: 34 Freemans Bridge Road

JOB NO.: 83060

LOGGED BY: **Lucas Benedict** 

PROJECT MANAGER: Lisa Swan

DATES DRILLED: 4-25-05

DRILLING CO.: Geologic, Inc.

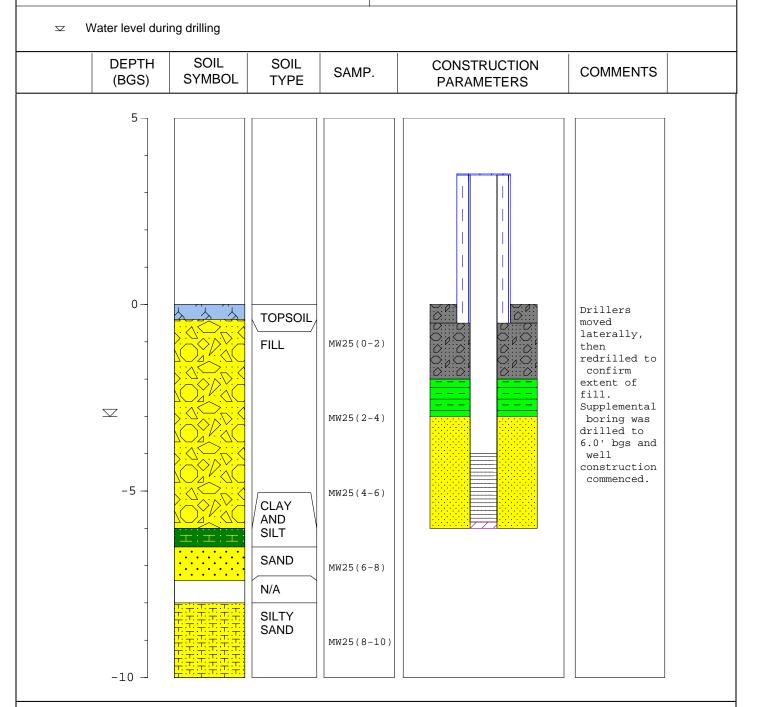
Joseph Menzel DRILLER:

**RIG TYPE: CME 45C** 

METHOD OF DRILLING: 8" hollow stem auger

SAMPLING METHODS: 2" OD Split spoon

HAMMER WT./DROP 140 lb., 30 in.



NOTES: Page 1 of 1

A **tuco** International Ltd. Company

EarthTech A BETTER TOMORROW made possible

40 British American Blvd. Latham, New York 12110

## FIELD BOREHOLE LOG

MONITORING WELL NO.: MW-26

TOTAL DEPTH: 8.0'

DRILLING INFORMATION

### PROJECT INFORMATION

PROJECT:

NYSDEC Freemans Bridge Site

SITE LOCATION:

34 Freemans Bridge Road

JOB NO.:

83060

LOGGED BY:

Lucas Benedict

DRILLING CO.:

Geologic, Inc.

DRILLER:

Joseph Menzel

RIG TYPE:

CME 45C

METHOD OF DRILLING: 8" hollow stem auger

SAMPLING METHODS: 2" OD Split speen

	AGER: Lisa			SAMPLING METHODS: 2" OD Split spoon HAMMER WT./DROP 140 lb., 30 in.				
ATES DRILLED					TAGID.			
DEPTH (BGS)	SOIL SYMBOL	SOIL TYPE	SAMP.	CONSTRUCTION PARAMETERS	LEGEND	COMMENTS		
			MW26(0-2)  MW26(2-4)  MW26(4-6)		GROUTED ANNULUS  BENTONITE SEAL  PIPE  END PLUG  SCREEN	Drillers moved		

NOTES:

Page 1 of 1



## EarthTech A BETTER TOMORROW made possible

40 British American Blvd. Latham, New York 12110

## FIELD BOREHOLE LOG

MONITORING WELL NO.: MW-27

TOTAL DEPTH: **11.0'** 

### PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: NYSDEC Freemans Bridge Site

DRILLING CO.: Geologic, Inc.

SITE LOCATION:

34 Freemans Bridge Road

**Lucas Benedict** 

Joseph Menzel

JOB NO.: **83060** 

RIG TYPE: CME 45C

LOGGED BY:

VOU RIGITEE. CME 45

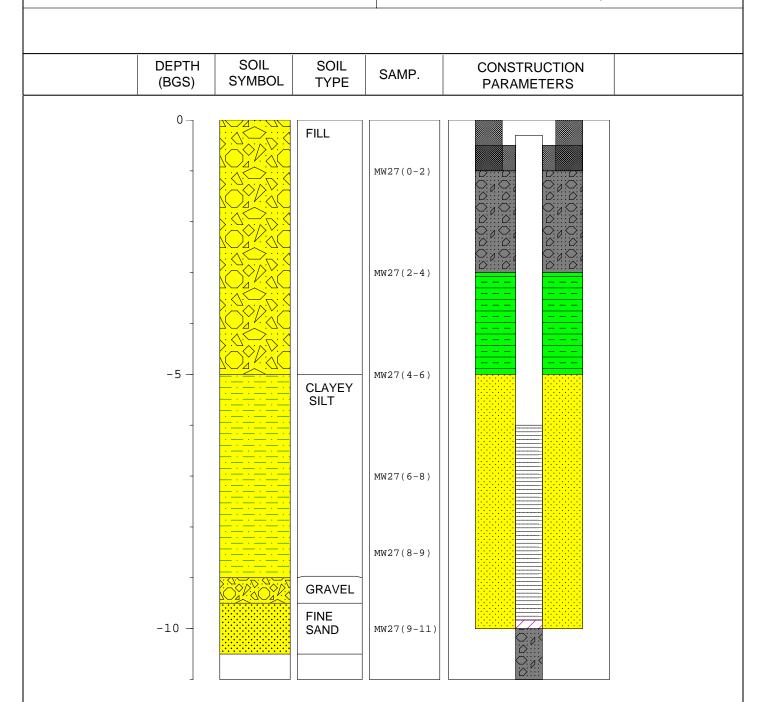
DRILLER:

PROJECT MANAGER: Lisa Swan

METHOD OF DRILLING: 8" hollow stem auger SAMPLING METHODS: 2" OD Split spoon

DATES DRILLED: 4-27-05

HAMMER WT./DROP 140 lb., 30 in.



NOTES: Page 1 of 1



SITE LOCATION:

## EarthTech A BETTER TOMORROW made possible

34 Freemans Bridge Road

40 British American Blvd. Latham, New York 12110

## FIELD BOREHOLE LOG

MONITORING WELL NO.: MW-28

Geologic, Inc.

TOTAL DEPTH: **14.0'** 

### PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: NYSDEC Freemans Bridge Site

DRILLER: Joseph Menzel

JOB NO.: **83060** 

RIG TYPE: CME 45C

DRILLING CO.:

LOGGED BY: Lucas Benedict

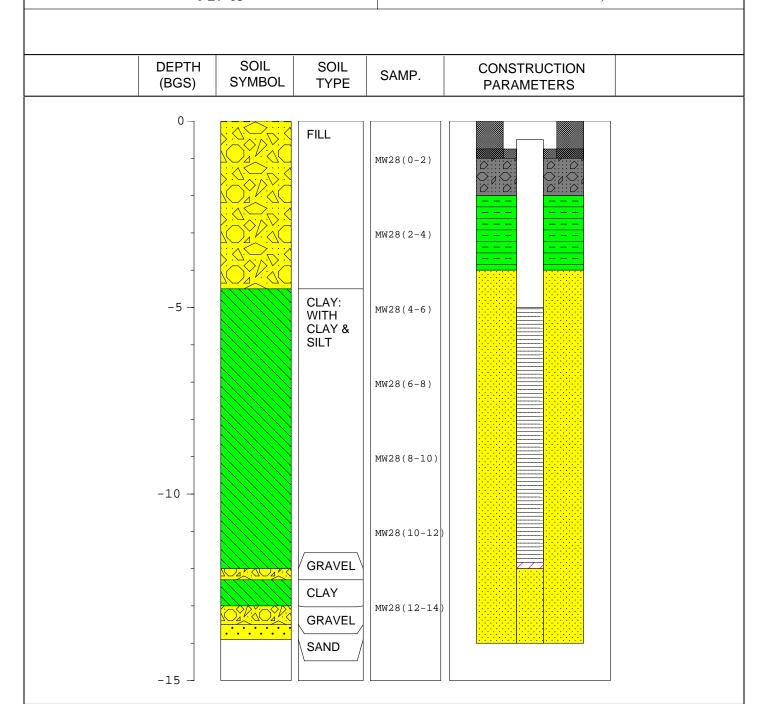
METHOD OF DRILLING: 8" hollow stem auger

PROJECT MANAGER: Lisa Swan

SAMPLING METHODS: 2" OD Split spoon

DATES DRILLED: 4-27-05

HAMMER WT./DROP 140 lb., 30 in.



NOTES: