SELECTED BORING LOGS
FROM PHASE I

GLADDING CORDAGE CO.

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d

PROJECT	Gladding Cordage; South Otselic, N.Y.					SHEET 1 OF 9
CLIENT	GHR					JOB No. 2006-10-673
DRILLING CONTRACTOR	American Auger & Ditching Co., Inc.					MEAS. PT. ELEV.
PURPOSE	Monitoring well installation - Phase I					GROUND ELEV.
DRILLING METHOD	spin in casing		SAMPLE	CORE	CASING	DATUM land surface
DRILL RIG TYPE	Mobile B-57	TYPE	SS-2'	NA	spin in	DATE STARTED 9/1/88
GROUNDWATER DEPTH	11.47' bMP	DIA.	2"		4¼" ID	DATE FINISHED 9/6/88
MEASURING POINT	top of riser	WEIGHT	140#			DRILLER Rocky Baye
DATE OF MEASUREMENT	9/13/88	FALL	30"			INSPECTOR Mau Lawler

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG *	GEOLOGIC DESCRIPTION	HNU: sample/background (ppm) REMARKS
	TS-3-1	7 7 5 5	SM-GM GC-GM GM		0.0-0.2' Br cmf S, s $ & C, a c(+)m(-)f G; ts, rts, veg 0.2-0.5' Dk br-bk c(+)mf G s(+), cmf S, l C & $; misc fill 0.5-0.9' Or, br, & yw mf G a(+), cmf S l(+) $; brks, concrete, misc fill	R=0.9' Dry HNU: 0.8/0.4
	TS-3-2	5 4 1 2	GP-GM		Or, br & gr cmf(-) G s(-), c(+)mf S, t(+) Cy$; brks, concrete, misc fill Orange, brown & gray coarse to fine (-) GRAVEL some (-), coarse (+) to fine Sand, trace (+) Clayey Silt; bricks, concrete, miscellaneous fill	R=1.3' Moist to Dry HNU: 0.8/0.7 (Moisture content of samples from deeper than 4' may not be representative; water was used for drilling.)
5	TS-3-3	7 4 3 2				R=0.0' Attempted to re-sample but spoon dropped to 6'.
	TS-3-4	7 7 5 6	GP-GM		Br, bk, rd, & gr c(+)mf G l, c(+)mf S, t(+) $ & C; brk, pavement, misc fill (bottom of fill) (~8')	R=0.4' WET HNU: 0.8/0.7
	TS-3-5	7 4 4 4	GM		Br cm(+)f G s, cmf S, l $ & C; G subrounded & angular WT @ 9.07'	R=0.6' WET HNU: 1.3/0.6
10						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 2 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
10	TS 3-6	13 6 4 7	GP-GM		Br c(+)mf G 1, c(+)mf S, t(+) $ & C	R=0.6' WET HNU: 0.8/0.6
	TS 3-7	10 6 7 9	GP		Br & gr c(-)mf G 1(+), c(+)mf S, t Cy$; f G rounded, cm G angular Brown & gray coarse (-) to fine GRAVEL little (+), coarse (+) to fine Sand, trace Clayey Silt	R=0.9' WET HNU: 0.9/0.6
	TS 3-8	19 9 15 29	GP-GC		Br cmf(-) G s, c(+)mf S, 1(-) C & $; cm G angular, f G rounded	R=1.3' WET HNU: 0.6/0.4
	TS 3-9	20 22 20 18	GC SM-GM GC		0.0-0.7': Gr br cmf G a, c(+)mf S, C & $; G angular & subrounded $S, SS, Sh; till 0.7-0.9': Dk rd br cmf S, 1(-) Cy$, a f G; brachiopods 0.9-1.0': Gr br mf G s(+), cmf S, 1(+) C & $	R=1.0' WET HNU: A:0.6/0.4 B:0.6/0.4
	TS 3-10	20 37 29 15	GC		Br & gr cmf(-) G s(+), c(+)mf S, 1(+) C & S; till	R=0.9' WET HNU: 0.7/0.4
	TS 3-11	18 14 14 20	GC		Br & dk gr cmf G a, c(+)mf S, 1(+) C & $; till; G angular & rounded Brown & dark gray coarse to fine GRAVEL and, coarse (+) to fine Sand, little Clay & Silt; till	R=0.7' Moist HNU: 0.5/0.4
	TS 3-12	20			(See next page for TS 3-12)	

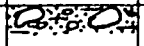
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 3 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
22.5	TS 3-12 cont'd	13 9 7	GM		Br cmf G s(+), c(+)mf S, l $ & C; G gr br & gr $S & f SS, angular & subrounded	R=0.8' Moist & WET HNU: 0.5/0.4
25	TS 3-13	12 15 15 15	GC-GP		Br & gr c(+)mf(-) G l(+), c(+)mf S, t(+) C & $; G fSS & $S; crinoid stems	R=0.8' Moist & WET HNU: 0.5/0.4
					- - - -?- - -?- - - -?- - - - -	
	TS 3-14	4 3 2 2	CL-CH ML-MH		0.0-0.3' Gr $yC 0.3-0.9' Gr $ & C; frgt lyrs Cy$ & C & $	R=0.9' Moist w/WET $y lyrs HNU:0.4/0.4
30					Gray SILT & CLAY; frequent layers of Clayey Silt and Clay & Silt	
	TS 3-15	4 4 4 5	CL-CH ML-MH		0.0-0.3' Gr $yC 0.3-1.2' Gr Cy$ a(+), f S; f G w/c S prt between 2 soil types	R=1.2' Moist 0-0.3' WET 0.3-1.2'
35						

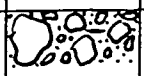
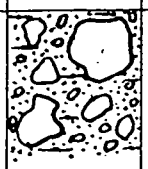
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 4 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
35						
	TS 3-16	2 3 4 4	CL-CH		Gr C & $ t, f S; alt lyrs & prts C & $, Cy$, Cy$ & f S, $yC	R=1.9' WET HNU:0.4/0.4
40						Driller notes change @ 42'
	TS 3-17	26 12 2 11	GP-GM ML-MH		0.0-0.2' Gr mf(+) G 1(-), c(+)mf S, t $ & C; G Sh, $S, & SS; WET 0.2-0.7' Gr $ & C t(-), cmf S; frgt $ & f S prts; moist w/WET prts & lyrs	R=0.7' WET to Moist HNU: 0.4/0.4
45					Gray SILT & CLAY trace (-), coarse to fine Sand, frequent Silt and fine Sand partings Dark gray & brown coarse to fine (-) GRAVEL little, coarse to fine Sand, trace (+) Silt & Clay	Driller notes change @ 45'

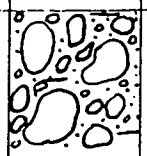
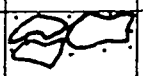
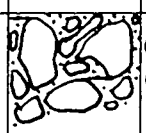
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 5 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
47.5						
	TS 3-18	18 12 12 12	GM-GP		Dk gr & br cmf(-) G 1, cmf S, t(+) $ & C; G angular & subrounded, some Fe stain	R=0.9' WET HNU: 0.5/0.4
50						slower drilling
	TS 3-19	20 11 11 15	GM		Lt br & gr mf G a(-), c(+)mf S, 1(+) $ & C	R=0.1' WET HNU: 0.4/0.4
55						
	TS 3-20	19 11 13 11	GP		Gr & br c(+)mf G 1(-), c(+)mf S, t(-) Cy$	R=0.4' WET HNU: 0.4/0.4
60						

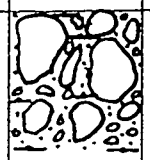
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 6 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
60						
	TS 3-21	27 15 12 12	GP		Gr & br cmf G 1(-), c(+)mf S, t(-) $ & C; G: dk gr $S & fSS, quartzite, rounded & angular	R=0.3' WET HNU:0.4/0.4
65						
	TS 3-22	43 14 14 15	GM-GP		Br & gr cmf G a, c(+)mf S, 1(-) Cy$; G rounded $S, SS, some Fe stain	R=1.1' WET top 0.2' Dry to Moist btm 0.9' w/ WET lyrs HNU: 0.5/0.4
70						Very hard drilling, 69-73'

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. MW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 7 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
72.5						
	TS 3-23	19 14 13 17	GM-GP		Br & dk gr c(+)mf G l(+), c(+)mf S, t(+) Cy$; G rounded	R=1.1' WET HNU: 0.5/0.4
75						hard drilling (30 minutes for 5')
	TS 3-24	22 14 14 13	GP		Dk gr-bk c G t(-), c(+)mf S, t(-)(-) Cy$; G angular $S	R 0.1' WET HNU: 0.5/0.5 No GC sample
80						faster drilling (12 minutes for 5')
	TS 3-25	15 14 11 10	GP		Gr & rd br c(+)mf G t(+), c(+)mf S, t(-) $ & C; G rounded and angular rd br SS, dk gr $S, fSS; fossils	R=0.7' WET HNU:0.8/0.5
85						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 8 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
85					(9/2/88)	
	TS 3-26	25 16 15 16	GM-GP		Gr br cmf(-) G s, c(+)mf S, t(+) $ & C; G angular & rounded	R=0.6' WET HNU: 0.6/0.5
90					Gray brown coarse to fine (-) GRAVEL some, coarse (+) to fine Sand, trace (+) Silt & Clay	driller notes change @ 92.5
	TS 3-27	47 36 28 22	GC		Br c(+)mf G s, c(+)mf S, l C & $; G sub-rounded & subangular; till	R=0.8' WET to Moist HNU:0.5/0.4
95					Brown coarse (+) to fine GRAVEL some, coarse (+) to fine Sand, little Clay & Silt; till	

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-3d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 9 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
97.5						
100	TS 3-28	23, 27, 24, 17	GC		Gr cmf G a(+), c(+)mf S, s C & $; G rounded & subangular $S, SS; till	R=0.9' Moist w/WET lyrs HNU: 0.4/0.4
	TS 3-29		SM-GM		Gr c(+)mf S, s $ & C, a(+) mf G; G Sh fgmts; till; weathered bedrock (Sh)	R=0.9' Moist HNU: 0.5/0.4
					(Top of bedrock: Sh) (~104')	
					EOB: 101.3' (sampled to 103.3')	
					Locked steel protective casing	-2.58 to 2.42
					Cement apron	-0.30 to 8.0'
					Cement/bentonite grout	8.0 to 73.1'
					Bentonite seal (slurry & pellets)	73.1 to 80.5
					Sand pack (#2 Q-ROK)	80.5 to 98.7
					Bentonite seal, lower (chunk)	98.7 to 99.3
					Formational collapse	99.3 to 103.3'
					Riser (type 304 s. steel, 2" ID, flush-threaded)	-2.40 to 82.6'
					Screen (type 304 s. steel, 2" ID, flush-threaded, 0.010"-slot)	82.6 to 98.5'
					Bentonite pellets within grout @ 10, 43, & 48' where annulus was accepting a lot of grout.	
					*Graphic log is not to scale; gravel is coarser than shown.	

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-4d

PROJECT Gladding Cordage; South Otselic, N.Y.						SHEET 1 OF 5
CLIENT GHR						JOB No. 2006-10-673
DRILLING CONTRACTOR American Auger & Ditching Co., Inc.						MEAS. PT. ELEV.
PURPOSE Monitoring well installation - Phase I						GROUND ELEV.
DRILLING METHOD spin in casing		SAMPLE	CORE	CASING		DATUM land surface
DRILL RIG TYPE Mobile B-57	TYPE	SS-2'	NA	spin in		DATE STARTED 9/13/88
GROUNDWATER DEPTH 10.15' bMP	DIA.	3"		4¼" ID		DATE FINISHED 9/14/88
MEASURING POINT top of riser	WEIGHT	140#				DRILLER Rocky Baye
DATE OF MEASUREMENT 9/28/88	FALL	30"				INSPECTOR Mau Lawler

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG *	GEOLOGIC DESCRIPTION	HNU: sample/back-ground (ppm) REMARKS
	TS 4-1 9:10	4 6 12 8	CL-CH		Br C & $ a(-), cmf S, s(-) cmf G; ts, rts, veg; 0.1' lyr concrete @ btm of spoon	R=1.1' Moist HNU: 0.4/0.4
	TS 4-2 9:50	12 8 12 13	GP-GM		Br c(+)mf(-) G 1, c(+)mf S, t(+) $ & C; G rounded & angular	R=0.6' Moist HNU: 0.4/0.3
5					TS-4-2 and all samples following were taken after drilling w/water, so moistures may not be representative. - - - - - - WT @ 7.69' - - - - - - - -	
	TS 4-3 10:01	34 18 16 20	GP		Br & gr c(+)mf G t(+), c(+)mf S, t(-) $ & C; moist till lyrs, Cy around c G	R=0.7' WET w/Moist lyrs HNU: 0.4/0.3
10					Brown & gray coarse (+) to fine GRAVEL trace (+), coarse (+) to fine Sand, trace (-) Silt & Clay; till layers	
	TS 4-4 10:23	18 20 19 32	GP-GM		Br & gr c(+)mf G 1(-), c(+)mf S, t $ & C; G rounded & angular	R=1.1' Moist w/WET lyrs HNU: 0.4/0.3 Washed out 6" of
15						cuttings before sampling. Lost water return @ 15'
	TS 4-5 10:40	33 34 34 26	GP GC		0.0-0.3' Gr & br c(+)mf G t(+), c(+)mf S, t(-) Cy$; G angular 0.3-0.6' Br & gr mf G a(-), cmf S, s C & $; till	R=0.6' WET 0.0-0.3 Dry to Moist 0.3-0.6 HNU: 0.4/0.3
20						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-4d
PROJECT Gladding Cordage, South Otselic, N.Y.		SHEET 2 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
20					Brown and gray medium to fine GRAVEL and (-), coarse to fine Sand, some Clay and Silt; till	Driller notes change @ 22'
	TS 4-6 11:01	25 14 10 9				R=0.0'
25	TS 4-7 11:10	7 9 6 7	GP		Br, gr & rd br c(+)mf G t, cmf S, t(-)(-) $ & C; rd br weathered c G	R=0.4' WET HNU:0.3/0.3
	TS 4-8 12:28	8 9 10 27	GP		Br & gr cmf G t(+), c(+)mf S, t(-) Cy$; Most G rounded	R=0.2' WET HNU:0.4/0.3
30					Brown & gray coarse to fine GRAVEL trace (+), coarse (+) to fine Sand, trace (-) Clayey Silt	
	TS 4-9 13:19	30 13 10 13	SM-GM		Br c(+)mf S, l(-) Cy$, a(+) c(-)mf(+) G; G rounded	R=0.7' Moist to WET HNU:0.3/0.3
35					Brown coarse (+) to fine Sand, little (-) Clayey Silt, and (+) coarse (-) to fine (+) Gravel	
	TS 4-10 13:35	27 26 20 22				R=0.0 two attempts
40					- - - - - -?- - - - - -?- - - - - - -?- - - - - - -	
	TS 4-11 14:07	20 11 7	SM		Br gr mf(+) S, a(+) Cy$ Brown gray medium to fine (+) SAND, and (+) Clayey Silt	R=0.7' WET HNU:0.4/0.4

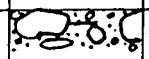
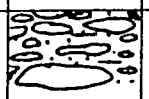
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-4d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 3 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
45						
48	TS 4-12 14:20	8 19 13 11	SM		Br cmf(+) S, a(+) $ & C, t f G	R=0.5' Moist HNU:0.4/0.4
50						
	TS 4-13 14:30	18 15 14 18	SM-SP		Gr br c(+)mf S, t Cy$, 1 mf G; G rounded	R=1.0' WET HNU:0.4/0.3
55						
	TS 4-14 14:50	12 28 33 26	SM-SP		Br gr c(+)mf S, t Cy$, a c(-)mf G; 0.0-0.5' no cm G, mostly S, less C 0.5-0.8' cbl to c G sized gr v f SS 0.8-1.3' more C & cm G than top 0.5'	R=0.0 1st attempt R=1.3' WET HNU:0.4/0.3
60		18 18				(overdriven)
	TS 4-15 15:00	8 12 14 14	GP-GM		Br gr to gr br cmf G a(+), c(+)mf S, t(+) $ & C; 0.0-0.5' grayer w/more fines	R=1.0' WET HNU:0.3/0.3
65						
	TS 4-16 15:10	22 22 30 22	GP		Gr & br c(+)mf G t, c(+)mf S, t(-) C & $; much of sample washed; G mostly rounded, dk gr f SS & $S, br f SS	R=0.4' Moist HNU:0.5/0.4

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-4d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 4 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
70						
	TS 4-17 15:24	40 20 21 20	GM-GP		Br & gr cmf G 1(+), c(+)mf S, 1(-) $ & C; till, dk gr clbl $S or f SS	R=0.5' Moist HNU: 0.5/0.4
75					Brown & gray coarse to fine GRAVEL little (+), coarse (+) to fine Sand, little (-) Silt & Clay; till	
	TS 4-18 16:07	42 37 27 48	GP GP-GM		0.0-0.6' Gr cmf G 1(+), c(+)mf S, t(-) Cy$ 0.6-1.1' Br gr c(+)mf G 1(-), c(+)mf S, t $ & C; loose till; or tn SS cbl, G gr f SS & $S	R=0.0, 1st attempt R=1.1', WET HNU: 0.5/0.4
80		49 40 32				(overdriven) @82' bit dropped ~0.7' through void in formation
	TS 4-19 16:32	30 23 24 30	GM-GP		Br gr cmf G 1(+), cmf S, 1(-) $ & C; alt lyrs moist till & wet G; 0.1' lyr weathered Sh	R=1.1' Moist HNU: 0.3/0.2
85						slow drilling
	TS 4-20 16:59	35 23 15 14	GM-GP		Dk br c(+)mf G s(-), c(+)mf S, t(+) $ & C; loose till; G rounded	R=0.8' Moist HNU: 0.3/0.3
90						
	TS 4-21 17:18	19 12 14 15	GC-GP		Br gr mf G 1(+), cmf S, t(+) C & $; dk gr $S cbl	R=0.1' WET HNU: 0.3/0.3 cbl blocked

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-4d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 5 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
95						~95.7' drilling much faster ~97.5' drilling very slowly
	TS 4-22 17:42	19 22 22 20	GC-GP		Dk gr c(+)mf G l, cmf S, t(+) C & $; G gr f SS & $S Dark gray coarse (+) to fine GRAVEL little, coarse to fine Sand, trace (+) Clay & Silt	R=0.5' Moist dk gr f SS cbl in spoon shoe
100						
	TS 4-23 18:29	95 54 26 87	GP-GM		Dk gr-bk cmf G l(-), c(+)mf S, t $ & C bedrock: weathered Sh	R=1.3' WET HNU:1.1/0.8
					Top of bedrock (Sh) between 100.5 & 101.0' EOB 101.0' (sampled to 103.0')	
					Locked steel protective casing	-2.71 to 2.29'
					Cement apron	-0.36 to 1.5'
					Bentonite plug (losing grout to formation) (pellets & chunk)	~8 to 13';~50' & ~60'
					Cement/bentonite grout	1.5 to 75.5'
					Bentonite seal (slurry & pellets)	75.5 to 78.6'
					Sand pack (#2 Q-ROK)	78.6 to 97.3'
					Bentonite seal, lower (pellets)	97.3 to 97.5'
					Formational collapse	97.5 to 103.0'
					Riser (type 304 s. steel, 2" ID, flush-threaded)	-2.46 -81.13'
					Screen (type 304, s steel, 2" ID, flush-threaded, 0.010"-slot)	81.13-97.03'
					*Graphic log is not to scale; gravel is coarser than shown.	

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d

PROJECT	Gladding Cordage, South Otselic, N.Y.					SHEET 1 OF 9
CLIENT	GHR					JOB No. 2006-10-673
DRILLING CONTRACTOR	American Auger & Ditching Co., Inc.					MEAS. PT. ELEV.
PURPOSE	Monitoring well installation - Phase I					GROUND ELEV.
DRILLING METHOD	spin in casing		SAMPLE	CORE	CASING	DATUM land surface
DRILL RIG TYPE	Mobile B-57	TYPE	SS-2'	NA	spin in	DATE STARTED 9/9/88
GROUNDWATER DEPTH	10.32' bMP	DIA.	3"		4¼" ID	DATE FINISHED 9/12/88
MEASURING POINT	top of riser	WEIGHT	140#			DRILLER Rocky Baye
DATE OF MEASUREMENT	9/13/88	FALL	30"			INSPECTOR Mau Lawler

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG *	GEOLOGIC DESCRIPTION	HNU: sample/background (ppm) REMARKS
	TS 5-1	6 6 8 8	ML-MH		Br $ & C s, cmf S, 1 mf G; rts, veg, ts	R=0.8' Dry to Moist HNU: 4.4/0.4
	TS 5-2	5 18 18 17	SC-GC		Br & gr cmf S, a C & $, a(+) c(+)mf(-) G; 0.2' lyr SS fgmts @ btm cbl to c G size	R=1.1' Moist HNU: 0.6/0.4 All samples following TS 5-2 were taken after drilling w/water, so moisture may not be representative
5	TS 5-3	15 14 15 15	GC-GP		Br & gr c(+)mf G 1(+), c(+)mf S, 1(-) C & $; 0.1' lyr weathered $S	R=1.0' Moist HNU:1.3/0.4
	TS 5-4	14 15 17 20	GC-GP		Br & gr c(+)mf G s(-), c(+)mf S, 1(-) C & $; G angular Brown & gray coarse (+) to fine GRAVEL some (-), coarse (+) to fine Sand, little (-) Clay & Silt - - - - - - WT @ 7.65' - - - - - - - -	R=1.1' WET HNU: 1.4/0.4 formation taking water
	TS 5-5 A&B	27 28 24 25	GP GC-GP		0.0-0.5' Gr & br cmf G t(+), c(+)mf S, t(-) $ & C 0.5-0.8' cbls w/C & $; transition wet to dry 0.8-1.0' Br & gr c(+)mf G 1, cmf S, 1(-) C & $; till, G rounded	R=1.0' WET; btm Moist to Dry HNU: A:0.6/0.4 B:0.5/0.4
10						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 2 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
10	TS 5-6 11:09 A&B	17 38 45 44	GP-GC		Gr & br c(+)mf G 1, c(+)mf S, t(+) C & $; some rd br weathering; horizontally fractured weathered SS, $ S lyrs 0.2' to 0.4'; till lyrs 0.1' to 0.4' thick	R=1.4' alt. WET rk lyrs w/moist to dry till lyrs HNU: A: 0.6/0.4 B: 0.8/0.4
	TS 5-7 11:22	32 31 45 30	GC		Gr & br cmf G s(-), c(+)mf S, 1 $yC; G angular & rounded; till; some rd br weathering Gray & brown coarse to fine GRAVEL some (-), coarse (+) to fine Sand, little Silty Clay; till	R=1.0' Dry to Moist w/2 WET rk lyrs HNU: 0.5/0.4
15	TS 5-8 11:37	33 20 22 28	GC		Br & gr c(+)mf G s(-), c(+)mf S, 1 C & $; f G more rounded; btm 0.2' sandier & Cy	R=1.3' Dry to Moist w/0.2' lyr WET rk HNU: 0.6/0.4
	TS 5-9 11:49 A&B	30 32 64 58	GP GP-GC		0.0-0.4' Gr & br c(+)mf G 1(-), c(+)mf S, t(-) Cy$ 0.4-1.1' Br & gr cmf G s(-), c(+)mf S, 1 (-) C & $; sandier than shallower tills; rd br weathered lyr around f SS cbl	R=1.1' WET 0.0-0.4', 1.0-1.1' Moist 0.4-1.0' HNU: A: 0.5/0.4 B: 0.5/0.4
	TS 5-10 13:03	30 25 24 15	GP-GC		Gr br c(+)mf G 1(+), c(+)mf S, t C & $; most G rounded	R=1.3' Moist & WET HNU: 0.4/0.4
20	TS 5-11 13:35	14 15 28 27	GC GP GC		0.0-0.2' Br & gr c(+)mf G s, c(+)mf S, 1 C&$ 0.2-0.6' Gr & br cmf G 1(-), c(+)mf S, t(-) Cy$; WET 0.6-1.0' Br & gr c(+)mf G s, c(+)mf S, 1 C&$	R=1.0' Moist to Dry; middle 0.4' WET HNU: 0.4/0.4

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 3 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 5-12 14:01	43 / 19 / 18 / 18	GP		Gr & br c(+)mf(-) G t(-), c(+)mf S, t(-)(-) C & $; 0.3' dk gr f SS stuck in spoon shoe	R=0.5' Moist & Dry HNU: 1.6/0.7
25	TS 5-13 14:20 14:26	18 / 10 / 14 / 18				R=0.0 (2 attempts)
	TS 5-14 14:36	13 / 18 / 13 / 12	GP		Gr & br c(+)mf(-) G t(+), c(+)mf S, t(-) $ & C; G rounded & angular f SS & $S	R=0.3' WET HNU: 0.5/0.4
	TS 5-15 14:45	19 / 16 / 11 / 8	GP-GM		Br & gr c(+)mf G l, c(+)mf S, t $ & C; most G rounded Brown & gray coarse (+) to fine GRAVEL little, coarse (+) to fine Sand, trace Silt and Clay	R=0.6' WET HNU: 0.5/0.4 Driller notes change @ 30'
30						
	TS 5-16 14:54	5 / 8	SM		Br c(-)mf S, s(-) Cy$; fining downward	R=1.7' WET HNU: 0.5/0.4

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 4 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 5-16	9			See previous page	
35					Brown coarse (-) to fine SAND, some (-) Clayey Silt	
	TS 5-17 15:03	7	SP-SM		0.0-0.7' Br c(+)mf(-) S, t Cy$, t(+) f G	R=1.3' WET HNU: 0.6/0.4
		11	SP-SM		0.7-1.3' Br c(-)mf S, t Cy$	
		11				
		11				
40					- - - ? - - - - ? - - - - ? - - - - ? - - -	
	TS 5-18 15:16	9	GP-GM		Dk gr br c(-)mf G 1, c(+)mf S, t $ & C; most G rounded	R=0.8' WET HNU: 0.5/0.4
		12				
		12				
		14				
45					Dark gray brown coarse (-) to fine GRAVEL little, coarse (+) to fine Sand, trace Silt and Clay	slower drilling

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 5 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 5-19 15:32	31 / 20 / 18 / 20	GP-GM		Dk gr br cmf(+) G s(-), c(+)mf S, t Cy$; most G rounded	R=1.0' WET HNU: 0.5/0.4
50					? ? ?	
	TS 5-20 16:23 A&B	14 / 14 / 16 / 18	ML-MH SP-SM		0.0-0.2' Br $ & C s(-), c(-)mf(+) S 0.2-1.2' Dk gr br c(+)mf(-) S, t Cy$, 1(-) f G	R=1.2' WET; Moist 0.0-0.2' HNU: A: 0.4/0.3 B: 0.4/0.3
55						
	TS 5-21 16:34	10 / 13 / 15	SP-SM		Dk br cmf(-) S, t Cy$	R=1.3' WET HNU: 0.4/0.3

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 6 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 5-21	14			See previous page	
60					Dark brown coarse to fine (-) SAND, trace Clayey Silt	driller notes softer sedi-ments @ 62'; faster drilling
	TS 5-22 16:51	8 10 15 20	SM		Br mf(+) S, 1 Cy$	R=1.3' WET
65						
	TS 5-23 17:04	11 15 19 28	SP-SM GP-GM		0.0-1.2' Dk gr br c(+)mf S, t Cy$, t(+) f G 1.2-1.5' Br & gr cmf(-) G 1(-), c(+)mf S, t Cy$; most G rounded (9/12/88)	R=1.5' WET
70						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 7 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
72						
	TS 5-24 8:14	31 42 35 28	GP		Gr & br c(+)mf(-) G t, c(+)mf S, t(-)(-) Cy$; G angular & rounded, rd, br & gr SS & $S	R=0.3' WET HNU: 0.5/0.4 cG stuck in spoon shoe
75						
	TS 5-25 8:56	16 16 17 14	GP-GM		Gr br cmf G s, c(+)mf S, t(+) Cy$	R=1.0' WET HNU: 0.4/0.4
80					Gray brown coarse to fine GRAVEL some, coarse (+) to fine Sand, trace (+) Clayey Silt - - - - - - - -?- - - - - -?- - - - - ?- - - -	
	TS 5-26 9:18	12 16 16	SM-SP		Br c(-)mf(+) S, l(-) $ & C; fines increasing downward	R=1.4' WET HNU: 0.4/0.4

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 8 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 5-26	19			See previous page	
					Brown coarse (-) to fine (+) SAND, little (-) Silt & Clay (transition to sand w/gravel then to gravel w/sand)	
	TS 5-27 9:34 A&B	50 35 58 60	GP SC-GC		0.0-0.6' Gr br c(+)mf(-) G t, c(+)mf S, t(-)(-) Cy$; washed? 0.6-1.7' Gr c(+)mf S, l(-) C & $, a(+) cmf G; G rounded; like till but not tight	R=1.7' Moist HNU: A: 0.4/0.4 B: 0.4/0.4
90						
91.6	TS 5-28 10:19	39 76 91 61	GP		Drove sample spoon through 8" of cuttings (91.6-92.3') before obtaining representative sample: Dk gr c(+)mf(-) G l(-), c(+)mf S, t(-)(-) $ & C; G fSS, angular (broken)	R=0.7' WET HNU: 0.6/0.4 Sample in jar not representative; coarse G too large
93.6	TS 5-29 10:40	48 81	GP-GC		Gn gr br c(+)mf(-) G l(-), c(+)mf S, t(+) $yC; cbl gr v f SS; till	R=0.6' Moist HNU: 0.5/0.4
94.7		37 27				Samples TS 5-29 & 5-30 overlap here
95.6	TS 5-30 11:19	35 27 36 29	GC		Br gr c(+)mf G s, c(+)mf S, l C & $; till f G & most cm G rounded; most G f SS, t Sh	R=0.9' Moist HNU: 0.4/0.3
96.7						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-5d
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 9 OF 9
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
97						
	TS 5-31 11:50	70 88 103 150/4"	GP-GC		Dk gr c(+)mf G l, cmf S, t(+) C & $; till; Sh (Top of bedrock: Sh) (~99.5')	R=0.7' Moist to Dry HNU: 0.4/0.3
					EOB 98.0' (sampled to 100.0') Locked steel protective casing Cement apron Cement/bentonite grout Bentonite seal (slurry) Sand pack (#2 Q-ROK) Formational collapse Riser (type 304 s. steel, 2" ID, flush-threaded) Screen (type 304 s. steel, 2" ID, flush-threaded, 0.010"-slot) *Graphic log is not to scale; gravel is coarser than shown.	 -2.72 - 2.28 -0.27 - 5.5' 5.5 - 66.0' 66.0 - 71.0' 71.0 - 89.5' 89.5 - 100.0 -2.67 - 72.87 72.87 - 88.77

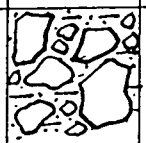
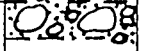
Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-6s

PROJECT Gladding Cordage; South Otselic, N.Y.					SHEET 1 OF 1	
CLIENT GHR					JOB No. 2006-10-673	
DRILLING CONTRACTOR American Auger & Ditching Co., Inc.					MEAS. PT. ELEV.	
PURPOSE Monitoring well installation - Phase I					GROUND ELEV.	
DRILLING METHOD spin in casing		SAMPLE	CORE	CASING	DATUM land surface	
DRILL RIG TYPE Mobile B-57	TYPE	none	NA	spin in	DATE STARTED 8/25/88	
GROUNDWATER DEPTH 10.84' bMP	DIA.			4¼" ID	DATE FINISHED 8/26/88	
MEASURING POINT top of riser	WEIGHT				DRILLER Rocky Baye	
DATE OF MEASUREMENT 9/13/88	FALL				INSPECTOR Ralph Morse	

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
					------ WT @ 8.84' ----------	
20					EOB 23.6'	
					Locked steel protective casing	-2.3 to 2.9'
					Cement apron	-0.3 to 2.75'
					Bentonite seal (slurry & pellets)	2.75 to 6.0'
					Sand pack (#2 Q-ROK)	6.0 to 23.6'
					Riser (type 304 s. steel, 2" I.D., flush-threaded)	-2.0 to 7.0'
					Screen (type 304 s. steel, 2" I.D., flush-threaded, 0.010"-slot)	7.0 to 22.9'

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-7i

PROJECT	Gladding Cordage; South Otselic, N.Y.					SHEET 1 OF 5
CLIENT	GHR					JOB No. 2006-10-673
DRILLING CONTRACTOR	American Auger & Ditching Co., Inc.					MEAS. PT. ELEV.
PURPOSE	Monitoring well installation - Phase I					GROUND ELEV.
DRILLING METHOD	spin in casing		SAMPLE	CORE	CASING	DATUM land surface
DRILL RIG TYPE	Mobile B-5 7	TYPE	SS-2'	NA	spin in	DATE STARTED 9/7/88
GROUNDWATER DEPTH	10.50' bMP	DIA.	2" & 3"		4¼" ID	DATE FINISHED 9/8/88
MEASURING POINT	top of riser	WEIGHT	140#			DRILLER Rocky Baye
DATE OF MEASUREMENT	9/13/88	FALL	30"			INSPECTOR Mau Lawler

DEPTH FT.	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG *	GEOLOGIC DESCRIPTION	HNU: sample/ background (ppm) REMARKS
	TS 7-1	2 4 4 5	GM		Br c(+)mf G s(-), cmf S, 1 $ & C; ts, rts, veg, G subrounded	R=0.6' Dry HNU: 0.5/0.5
	TS 7-2	2 1 4 6	GP-GM		Gr & br c(+)mf G 1(-), cmf S, t $ & C; G angular	R=0.1' Dry HNU: 0.5/0.5 No GC sample All samples following TS7-2 were taken after drilling w/water, so moistures may not be representative.
5	TS 7-3	12 11 11 12	GC-GP		Br & gr c(+)mf G s(-), c(+)mf S, 1(-) C & $; G angular Brown and gray coarse (+) to fine GRAVEL some (-), coarse (+) to fine Sand, little (-) Clay & Silt	R=0.9' WET 0.0-0.5' Moist 0.5-0.9' HNU: 0.6/0.4
	TS 7-4	18 17 13 10	GC		Br & gr c(+)mf G s(-), c(+)mf S, 1 C & $; G angular & rounded $S & SS — — — — — WT @ 7.92' — — — — —	R=1.6' WET HNU: 0.5/0.4
	TS 7-5 A&B	16 19	GC-GP		0.0-1.0' Br & gr c(+)mf G s(-), c(+) mf S, 1(-) C & $; G angular & rounded; loose till; cbl	R=1.3' WET; btm 0.3' moist to Dry
		27 55	GC		1.0-1.3' Br & gr c(-)mf G a(-), c(+) mf S, 1(+) C & $; G rounded; hard till	HNU: A: 0.6/0.4 B: 0.6/0.4

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-7i
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 2 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
10	TS 7-6	31 28 52 45	GC		Br cmf G s(+), c(+)mf S, l(+) $yC; G rounded & angular; dense till Brown coarse to fine GRAVEL some (+), coarse (+) to fine Sand, little (+) Silty Clay; dense till	R=1.1' Moist HNU: 0.9/0.5
12	TS 7-7	19 15 13 14	GC		Br & gr c(+)mf G s, c(+)mf S, l C & $; G angular & rounded	R=0.7' Moist & WET HNU: 0.8/0.5
14	TS 7-8	16 16 19 22	GM-GP		Br & gr c(+)mf G s(-), c(+)mf S, t(+) $ & C; G angular; till lyrs	R=0.8' WET w/Moist till lyrs 0.2' thick HNU: 0.7/0.5
16	TS 7-9	20 19 17 13	GM		Br c(+)mf G a, c(+)mf S, l(+) $ & C; G rounded & angular; till Brown coarse (+) to fine GRAVEL and, coarse (+) to fine Sand, little (+) Silt & Clay	R=0.9' Moist w/0.2' WET lyr HNU: 0.6/0.5
18	TS 7-10 A&B	10 9 7 7	GM-GP SM-SP		0.0-0.4' Br cmf G s, c(+)mf S, t(+) Cy$ 0.4-0.8' Dk br c(+)mf S, t(+) Cy$, t(+) f G	R=0.8' WET HNU: A: 0.6/0.5 B: 0.6/0.5
20	TS 7-11 A&B	9 10 11 12	SP-SM GP-GM		0.0-0.6' Dk br c(+)mf S, t Cy$, a(+) c(+)mf (-) G; G rounded 0.6-1.0' Dk br & gr mf G s(-), c(+)mf(-) S, t Cy$; G rounded; loose	R=1.0' WET HNU: A: 0.6/0.5 B: 0.5/0.5
22	TS 7-12	11			See next page	

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-7i
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 3 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
	TS 7-12 (cont'd)	14	GP		0.0-0.6' Br & gr cmf G l(-), c(+)mf S, t(-) Cy$; G rounded & subangular	R=0.8' WET; btm 0.2' moist HNU: 0.6/0.5
		15	GC		0.6-0.8' Dk br mf G s, c(+)mf S, l C & $; dense moist till	
		13				
	TS 7-13	23	GP-GM		Dk br cmf G a(-), c(+)mf S, t Cy$; c G rounded $S	R=0.9' WET HNU: 0.5/0.5
		15			Dark brown coarse to fine GRAVEL and(-), coarse (+) to fine Sand, trace Clayey Silt	
25		15				
		10				
	TS 7-14	10	SP-SC		Dk br c(+)mf S, t $yC, t(+) f G	R=1.2' WET HNU: 0.4/0.4
		10				
		10				
		7				
	TS 7-15	6	SP-SM		Dk br cmf S, t Cy$, t f G 0.0-0.8' coarsens downward 0.8-1.4' no f G, more Cy$	R=1.4' WET HNU: 0.5/0.4
		6				
		7				
		8				
30					Dark brown coarse to fine SAND, trace Clayey Silt, trace fine Gravel	
	TS 7-16 A&B	7	SM-SW		0.0-0.6' Dk br c(-)mf S, l(-) Cy$; fines downward	R=1.5' WET HNU: A: 0.4/0.4 B: 0.5/0.4
		12	GP		0.6-1.5' Br & gr mf(+) G a, c(+)mf(-) S, t(-) Cy$; G rounded	
		11			Brown & gray medium to fine (+) GRAVEL and, coarse (+) to fine (-) Sand, trace (-)	
35		11			Clayey Silt	

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-7i
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 4 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSI-FICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
35					- - - ? - - - ? - - - ? - - - ? - - - ? - - -	faster drilling
	TS 7-17	10 10 12 11	SP		Br c(+)mf(-) S, t(-) Cy$, s(+) mf(+) G; G rounded	R=1.3' WET HNU: 0.4/0.4
40					Brown coarse (+) to fine (-) SAND, trace (-) Clayey Silt, some (+) medium to fine (+) Gravel	WL in casing is above ground level
	TS 7-18	5 12 12 16	SP-SM GM-GP		0.0-0.8' Br cmf S, t Cy$, t f G 0.8-1.3' Br & gr c(-)mf G s, c(+)mf S, t(+) Cy$; G rounded	R=1.3' WET HNU: A: 0.4/0.4 B: 0.4/0.4
45						

Dunn Geoscience Corp. Albany, NY 12205 (518)458-1313	TEST BORING LOG	BORING No. TW-7i
PROJECT Gladding Cordage; South Otselic, N.Y.		SHEET 5 OF 5
CLIENT GHR		JOB No. 2006-10-673

DEPTH FT	SAMPLE NUMBER	BLOWS ON SAMPLE SPOON PER 6"	UNIFIED CLASSIFICATION	GRAPHIC LOG	GEOLOGIC DESCRIPTION	REMARKS
					@ 48' WL dropped down again	
	TS 7-19	30 30 33 26	GP		Gr & br c(+)mf G t, c(+)mf S, t(-)(-) Cy$; G angular & rounded $S, f SS, SS	R=0.2' WET HNU: 0.5/0.4 fSS blocking spoon shoe
50					Gray & brown coarse (+) to fine GRAVEL trace, coarse (+) to fine Sand, trace (-)(-) Clayey Silt	
	TS 7-20 A&B	22 21 19 15	GP-SM SP		0.0-0.7' Gr & br c(+)mf G 1, c(+)mf S, t Cy$ 0.7-1.3' Br c(+)mf S, t(-) Cy$, 1 f G; rounded	R=1.3' WET HNU: A:0.5/0.5 B:0.5/0.5
55					EOB 53.38' (sampled to 55.0')	
					Locked steel protective casing	-2.71 - 2.29'
					Cement apron	-0.2 - 0.5'
					Cement/benotonite grout	0.5 - 32.1'
					Bentonite seal (slurry)	32.1 - 35.5'
					Sand pack (#2 Q-ROK)	35.5 - 53.38
					Formational collapse	53.38 - 55.0'
					Riser (type 304 s.steel, 2" ID, flush-threaded)	-2.58 - 37.42
					Screen (type 304 s.steel, 2" ID, flush-threaded, 0.010"-slot)	37.42-53.32'
					*Graphic log is not to scale; gravel is coarser than shown.	

ATTACHMENT B

PREVAILING WAGES

File on eDOCs X Yes ____ No
Site Name Gladding Cordage
Site No. 709009
County Chelan
Town Southwest
Available X Yes ____ No
File Name 1988-09-06. Boom Logs
Scanned & eDOC ____