GeoTesting
express
a subsidiary of Geocomp Corporation

1145 Massachusetts Avenue
Boxborough, MA 01719
978 635 0424 Tel
978 635 0266 Fax

Transmittal

TO:

Ms. Laura Brussel
Parsons Engineering Science
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

DATE: 6/28/07	GTX NO: 7143
RE: Onondaga Project	
Project No. 38292.40495	

COPIES	DATE	DESCRIPTION
	6/28/07	**Column Settling Test - Laboratory Test Reports**

REMARKS:

SIGNED: _____
Joe Tomei – Laboratory Manager

CC:

APPROVED BY: _____
Gary Torosian – Director of Testing Services

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June 28, 2007

Ms. Laura Brussel
Parsons Engineering Science, Inc.
290 Elwood Davis Road, Suite 312
Liverpool, NY 13088

Re: Onondaga Project (GTX-7143)

Dear Ms. Brussel:

Enclosed are the test results you requested for the above referenced project. GeoTesting Express, Inc. (GTX) picked-up 17 soil samples and 51 15-gallon site water containers. The following is a list of the samples:

Soils: OL-STA-10031, OL-STA-10114, OL-STA-10115, OL-STA-10116, OL-STA-10117, OL-STA-10118, OL-STA-10119, OL-STA-30053, OL-STA-40061, OL-STA-40062, OL-STA-40063, OL-STA-60098, OL-STA-60099, OL-STA-60100, OL-STA-70048, OL-STA-70049, OL-STA-70050

Water: 51 containers all labeled OL-STA-10114

GTX performed the following tests on these samples:

17 Column Settling Tests (US CEO EM 1110)
17 Large-Diameter Consolidation Tests (ASTM D 2435)
17 Moisture Contents (ASTM D 2216)
17 Grain Size Analyses (ASTM D 422) with Hydrometer
17 Atterberg Limits (ASTM D 4318)
17 Specific Gravity (ASTM D 854)
17 Hand–Held Torvane Tests

The following procedure was used for the testing:

1. A slurry was made from each sample using the provided soil and on-site water. A target slurry concentration of 110 g/L was used.
2. The slurry was then thoroughly mixed in a 45-gallon bucket with a powered mixer and pumped into the Column Settling Test chamber. The material was pumped until an initial column height of 7 feet was achieved.
3. The columns were then sampled for total solids content, suspended solids content, and turbidity testing. These test samples were collected at time increments of 1, 2, 4, 6 hours and 1, 2, 4, 8, and 15 days.

GeoTesting Express, Inc.
1145 Massachusetts Avenue
Boxborough, MA 01719
800 434 1062 Toll Free
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2662 Holcomb Bridge Road, Suite 310
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express

4. After 15 days, the standing water was pumped out of the column and the chamber was removed from the base. Excess solids above the base and approximately 3-inches into the base was carefully removed and an incremental consolidation test was performed on the remaining material in the base. For the following samples, OL-STA-10031, OL-STA-10117, OL-STA-30053, OL-STA-70049, and OL-STA-70050, we could not perform the consolidation directly in the column settling chamber base. Instead the wet density of the solids was measured and the material was then remolded at the measured wet density into a 7.65-inch-diameter consolidation chamber.
5. After the consolidation was completed, hand-held torvane tests were performed on the top surface of the solids. The material was then removed from the consolidation chamber, thoroughly mixed and the following tests were performed; Moisture Content, Grain Size, Atterberg Limits, and Specific Gravity.

The results presented in this report apply only to the items tested. This report shall not be reproduced except in full, without written approval from GeoTesting Express. The remainder of these samples will be retained for a period of sixty (60) days and will then be discarded unless otherwise notified by you. Please call me if you have any questions or require additional information. Thank you for allowing GeoTesting Express the opportunity of providing you with testing of soil. We look forward to working with you again in the future.

Respectfully yours,

Joe Tomei
Laboratory Manager

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Geotechnical Test Report

June 28, 2007

GTX-7143
Onondaga Project

Syracuse, NY

Column Settling Test Results

Prepared for:

PARSONS

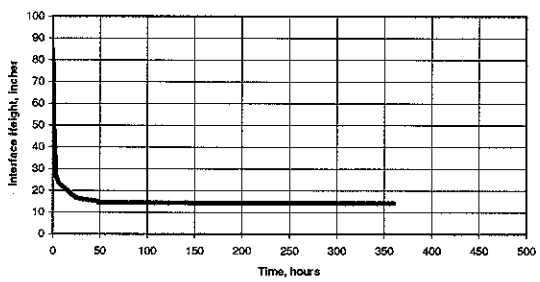
GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/02/07	9:08 AM	0	0.00	84.8	84.8		
	9:11 AM	3	0.05		83.5		
	9:15 AM	7	0.12		81.4		
	9:20 AM	12	0.20		78.8		
	9:25 AM	17	0.28		75.6		
	9:42 AM	34	0.57		66.4		
	9:45 AM	37	0.62		65.6		
	10:00 AM	52	0.87		60.5		
	10:08 AM	60	1.00		58.1		
	10:11 AM	63	1.05	84.4	57.2		
	10:20 AM	72	1.20		54.6		
	10:26 AM	78	1.30		52.9		
	10:30 AM	82	1.37		51.8		
	10:35 AM	87	1.45		50.5		
	10:55 AM	107	1.78		45.2		
	11:00 AM	112	1.87		44		
	11:08 AM	120	2.00		42.1		
	11:14 AM	126	2.10	83.3	40.7		
	11:20 AM	132	2.20		39.4		
	11:40 AM	152	2.53		35.4		
	11:55 AM	167	2.78		32.7		
	12:17 PM	189	3.15		29.4		
	12:38 PM	210	3.50		27.1		
	1:00 PM	232	3.87		26.3		
	1:08 PM	240	4.00		26		
	1:21 PM	253	4.22	82.1	25.7		
	1:30 PM	262	4.37		25.5		
	1:45 PM	277	4.62		25.1		
	2:05 PM	297	4.95		24.7		
	2:15 PM	307	5.12		24.6		
	2:45 PM	337	5.62		24		
	3:45 PM	397	6.62	80.9	23.3		
03/03/07	9:23 AM	1455	24.25	79.2	16.8		
	1:15 PM	1687	28.12		16.3		
03/04/07	9:00 AM	2872	47.87		15		
	9:30 AM	2902	48.37	77.7	14.4		
03/10/07	9:25 AM	11537	192.28	74.2	14.3		
03/17/07	9:26 AM	21618	360.30	72.5	14.3		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	2754	2763	1694									
Wet Sample + Tare Wt, g	157.35	166.68	171.00									
Dried Sample + Tare Wt, g	107.21	108.04	119.17									
Tare Wt, g	102.58	101.44	114.07									
Water Wt, g	50.14	58.64	51.83									
Dried Sample Wt, g	4.63	6.6	5.1									
Salt Wt, g	0.027	0.032	0.028									
Particulates Wt, g	4.603	6.568	5.072									
Particulates Conc. (g/L)	88.5	107.2	94.2									

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	101A	102	102A	103								
Wet Sample + Tare Wt, g	105.34	111.46	108.02	110.20								
Dried Sample + Tare Wt, g	67.41	68.29	68.00	67.72								
Tare Wt, g	67.30	68.14	67.85	67.60								
Water Wt, g	37.93	43.17	40.02	42.48								
Dried Sample Wt, g	0.11	0.15	0.15	0.12								
Salt Wt, g	0.021	0.023	0.022	0.023								
Particulates Wt, g	0.089	0.127	0.128	0.097								
Particulates Conc. (g/L)	2.4	2.9	3.2	2.3								

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	113	114	115	116	117	118	106					
Wet Sample + Tare Wt, g	105.44	114.51	106.51	109.41	112.75	118.20	118.36					
Dried Sample + Tare Wt, g	65.52	68.34	66.15	68.40	66.94	66.16	67.37					
Tare Wt, g	65.37	68.17	66.03	68.26	66.79	65.99	67.21					
Water Wt, g	39.92	46.17	40.36	41.01	45.81	52.04	50.99					
Dried Sample Wt, g	0.15	0.17	0.12	0.14	0.15	0.17	0.16					
Salt Wt, g	0.022	0.025	0.022	0.022	0.025	0.028	0.028					
Particulates Wt, g	0.128	0.145	0.098	0.118	0.125	0.142	0.132					
Particulates Conc. (g/L)	3.2	3.1	2.4	2.9	2.7	2.7	2.6					

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	108	109	110	111	112	155	156	157	158			
Wet Sample + Tare Wt, g	106.28	110.85	112.55	111.65	112.69	113.28	115.73	121.79	111.86			
Dried Sample + Tare Wt, g	67.80	68.33	66.36	65.55	67.87	67.13	66.77	68.09	66.92			
Tare Wt, g	67.68	68.19	66.19	65.40	67.71	66.98	66.61	67.90	66.77			
Water Wt, g	38.48	42.52	46.19	46.10	44.82	46.15	48.96	53.70	44.94			
Dried Sample Wt, g	0.12	0.14	0.17	0.15	0.16	0.15	0.16	0.19	0.15			
Salt Wt, g	0.021	0.023	0.025	0.025	0.024	0.025	0.027	0.029	0.024			
Particulates Wt, g	0.099	0.117	0.145	0.125	0.136	0.125	0.133	0.161	0.126			
Particulates Conc. (g/L)	2.6	2.7	3.1	2.7	3.0	2.7	2.7	3.0	2.8			

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	186	168	169	170	171	172	173	174	175	177		
Wet Sample + Tare Wt, g	104.16	107.74	108.44	114.74	108.58	115.69	117.68	115.99	120.22	124.24		
Dried Sample + Tare Wt, g	67.13	68.08	67.12	68.26	66.83	66.95	68.64	67.21	67.54	67.11		
Tare Wt, g	67.01	67.94	66.97	68.09	66.69	66.78	68.46	67.04	67.36	66.89		
Water Wt, g	37.03	39.66	41.32	46.48	41.75	48.74	49.04	48.78	52.68	57.13		
Dried Sample Wt, g	0.12	0.14	0.15	0.17	0.14	0.17	0.18	0.17	0.18	0.22		
Salt Wt, g	0.020	0.022	0.022	0.025	0.023	0.026	0.027	0.027	0.029	0.031		
Particulates Wt, g	0.100	0.118	0.128	0.145	0.117	0.144	0.153	0.143	0.151	0.189		
Particulates Conc. (g/L)	2.7	3.0	3.1	3.1	2.8	2.9	3.1	2.9	2.9	3.3		

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	18	39	44	51	40	38	22	31	43	23	160	
Wet Sample + Tare Wt, g	111.22	115.47	110.64	113.14	117.68	107.48	113.49	110.67	114.34	111.26	118.63	
Dried Sample + Tare Wt, g	67.61	68.22	66.04	67.53	66.65	66.30	66.38	67.48	67.72	68.49	67.15	
Tare Wt, g	67.45	68.05	65.88	67.37	66.47	66.18	66.21	67.33	67.55	68.34	66.95	
Water Wt, g	43.61	47.25	44.60	45.61	51.03	41.18	47.11	43.19	46.62	42.77	51.48	
Dried Sample Wt, g	0.16	0.17	0.16	0.16	0.18	0.12	0.17	0.15	0.17	0.15	0.20	
Salt Wt, g	0.024	0.026	0.024	0.025	0.028	0.022	0.026	0.023	0.025	0.023	0.028	
Particulates Wt, g	0.136	0.144	0.136	0.135	0.152	0.098	0.144	0.127	0.145	0.127	0.172	
Particulates Conc. (g/L)	3.1	3.1	3.0	3.0	3.0	2.4	3.1	2.9	3.1	3.0	3.3	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	32	33	34	35	36	37	41	42	45	49	
Wet Sample + Tare Wt, g	---	110.52	116.26	117.34	111.94	124.44	117.90	133.78	132.94	129.42	126.38	
Dried Sample + Tare Wt, g	---	66.36	67.71	66.54	67.47	66.14	67.78	66.26	67.55	68.03	67.72	
Tare Wt, g	---	66.19	67.54	66.37	67.33	65.96	67.59	66.02	67.33	67.82	67.50	
Water Wt, g	---	44.16	48.55	50.80	44.47	58.30	50.12	67.52	65.39	61.39	58.66	
Dried Sample Wt, g	---	0.17	0.17	0.17	0.14	0.18	0.19	0.24	0.22	0.21	0.22	
Salt Wt, g	---	0.024	0.026	0.028	0.024	0.032	0.027	0.037	0.036	0.033	0.032	
Particulates Wt, g	---	0.146	0.144	0.142	0.116	0.148	0.163	0.203	0.184	0.177	0.188	
Particulates Conc. (g/L)	---	3.3	3.0	2.8	2.6	2.5	3.2	3.0	2.8	2.9	3.2	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	29	30	50	66	104A	105	105A	107	120	121	
Wet Sample + Tare Wt, g	---	110.50	109.70	110.08	111.68	117.72	113.69	116.56	120.94	125.93	113.08	
Dried Sample + Tare Wt, g	---	68.79	67.58	67.68	67.86	67.13	66.30	67.73	66.46	66.32	68.24	
Tare Wt, g	---	68.65	67.44	67.55	67.71	66.96	66.13	67.54	66.28	66.15	68.08	
Water Wt, g	---	41.71	42.12	42.40	43.82	50.59	47.39	48.83	54.48	59.61	44.84	
Dried Sample Wt, g	---	0.14	0.14	0.13	0.15	0.17	0.17	0.19	0.18	0.17	0.16	
Salt Wt, g	---	0.023	0.023	0.023	0.024	0.027	0.026	0.027	0.030	0.032	0.024	
Particulates Wt, g	---	0.117	0.117	0.107	0.126	0.143	0.144	0.163	0.150	0.138	0.136	
Particulates Conc. (g/L)	---	2.8	2.8	2.5	2.9	2.8	3.0	3.3	2.8	2.3	3.0	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	113	117	205	106	120	155	104A	157	112	66	
Wet Sample + Tare Wt, g	---	103.84	109.80	113.42	122.78	110.87	118.44	117.60	122.79	117.94	117.04	
Dried Sample + Tare Wt, g	---	65.50	66.92	66.68	67.38	66.28	67.15	67.12	68.09	67.87	67.88	
Tare Wt, g	---	65.38	66.78	66.52	67.20	66.15	66.98	66.94	67.89	67.70	67.70	
Water Wt, g	---	38.34	42.88	46.74	55.40	44.59	51.29	50.48	54.70	50.07	49.16	
Dried Sample Wt, g	---	0.12	0.14	0.16	0.18	0.13	0.17	0.18	0.20	0.17	0.18	
Salt Wt, g	---	0.021	0.023	0.025	0.030	0.024	0.028	0.027	0.030	0.027	0.027	
Particulates Wt, g	---	0.099	0.117	0.135	0.150	0.106	0.142	0.153	0.170	0.143	0.153	
Particulates Conc. (g/L)	---	2.6	2.7	2.9	2.7	2.4	2.8	3.0	3.1	2.8	3.1	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	115	82	77	97	7	198	86	196	93	61	
Wet Sample + Tare Wt, g	---	106.78	111.75	109.87	107.33	116.67	115.83	113.44	113.22	119.99	119.22	
Dried Sample + Tare Wt, g	---	66.16	67.52	67.71	67.49	68.27	67.98	68.07	67.64	66.59	68.15	
Tare Wt, g	---	66.01	67.39	67.55	67.32	68.10	67.81	67.93	67.46	66.38	67.96	
Water Wt, g	---	40.62	44.23	42.16	39.84	48.40	47.85	45.37	45.58	53.40	51.07	
Dried Sample Wt, g	---	0.15	0.13	0.16	0.17	0.17	0.17	0.14	0.18	0.21	0.19	
Salt Wt, g	---	0.022	0.024	0.023	0.022	0.026	0.026	0.025	0.025	0.029	0.028	
Particulates Wt, g	---	0.128	0.106	0.137	0.148	0.144	0.144	0.115	0.155	0.181	0.162	
Particulates Conc. (g/L)	---	3.1	2.4	3.2	3.7	3.0	3.0	2.5	3.4	3.4	3.2	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	103A	104A	105	105A								
Dry Particulates + Filter Paper Wt, g	0.0865	0.0875	0.0912	0.0904								
Filter Paper Wt, g	0.0807	0.0795	0.0808	0.0807								
Dry Particulates Wt, g	0.0058	0.0080	0.0104	0.0097								
Volume (mL)	132	139	144	138								
Particulates TSS Conc. (mg/L)	43.939	57.554	72.222	70.290								
Turbidity (NTU)	31	36	31	39								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	119	120	121	123	151	154	107					
Dry Particulates + Filter Paper Wt, g	0.0837	0.0841	0.0848	0.0858	0.0867	0.0871	0.0854					
Filter Paper Wt, g	0.0816	0.0809	0.0803	0.0808	0.0816	0.0809	0.0799					
Dry Particulates Wt, g	0.0021	0.0032	0.0045	0.0050	0.0051	0.0062	0.0055					
Volume (mL)	144	148	142	140	140	139	139					
Particulates TSS Conc. (mg/L)	14.583	21.622	31.690	35.714	36.429	44.604	39.568					
Turbidity (NTU)	8.8	14	23	21	23	27	25					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	159	160	161	162	163	164	165	166	167			
Dry Particulates + Filter Paper Wt, g	0.0779	0.0802	0.0803	0.0791	0.0824	0.0831	0.0807	0.0845	0.0830			
Filter Paper Wt, g	0.0766	0.0786	0.0774	0.0764	0.0800	0.0799	0.0779	0.0809	0.0785			
Dry Particulates Wt, g	0.0013	0.0016	0.0029	0.0027	0.0024	0.0032	0.0028	0.0036	0.0045			
Volume (mL)	140	142	134	140	141	141	140	141	139			
Particulates TSS Conc. (mg/L)	9.286	11.268	21.642	19.286	17.021	22.695	20.000	25.532	32.374			
Turbidity (NTU)	4.0	4.7	12	10	11	13	13	14	15			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	19	21	24	25	26	27	28	29	30	33		
Dry Particulates + Filter Paper Wt, g	0.0808	0.0815	0.0819	0.0824	0.0815	0.0817	0.0824	0.0809	0.0825	0.0937		
Filter Paper Wt, g	0.0802	0.0811	0.0804	0.0813	0.0807	0.0809	0.0811	0.0807	0.0810	0.0805		
Dry Particulates Wt, g	0.0006	0.0004	0.0015	0.0011	0.0008	0.0008	0.0013	0.0002	0.0015	0.0132		
Volume (mL)	136	141	141	136	145	142	144	142	141	150		
Particulates TSS Conc. (mg/L)	4.412	2.837	10.638	8.088	5.517	5.634	9.028	1.408	10.638	88.000		
Turbidity (NTU)	2.8	2.5	8.9	7.1	7.4	7.6	8.3	9.1	9.4	65		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	49	70	71	34	201	8	185	35	42	161	163	
Dry Particulates + Filter Paper Wt, g	0.0775	0.0785	0.0814	0.0784	0.0798	0.0810	0.0788	0.0818	0.0786	0.0850	0.0824	
Filter Paper Wt, g	0.0763	0.0772	0.0805	0.0766	0.0781	0.0787	0.0773	0.0801	0.0767	0.0805	0.0771	
Dry Particulates Wt, g	0.0012	0.0013	0.0009	0.0018	0.0017	0.0023	0.0015	0.0017	0.0019	0.0045	0.0053	
Volume (mL)	134	138	138	137	140	143	136	133	142	137	141	
Particulates TSS Conc. (mg/L)	8.955	9.420	6.522	13.139	12.143	16.084	11.029	12.782	13.380	32.847	37.589	
Turbidity (NTU)	3.2	2.7	2.2	3.0	2.9	2.9	3.9	2.7	3.0	15	21	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	13	19	20	21	24	25	26	27	8	28	
Dry Particulates + Filter Paper Wt, g	---	0.0791	0.0772	0.0777	0.0777	0.0767	0.0793	0.0820	0.0799	0.0815	0.0804	
Filter Paper Wt, g	---	0.0788	0.0771	0.0770	0.0774	0.0766	0.0789	0.0815	0.0795	0.0789	0.0774	
Dry Particulates Wt, g	---	0.0003	0.0001	0.0007	0.0003	0.0001	0.0004	0.0005	0.0004	0.0026	0.0030	
Volume (mL)	---	136	142	137	137	137	143	142	148	145	143	
Particulates TSS Conc. (mg/L)	---	2.206	0.704	5.109	2.190	0.730	2.797	3.521	2.703	17.931	20.979	
Turbidity (NTU)	---	1.4	1.7	1.4	1.1	1.9	1.2	1.5	2.4	12	13	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	68	70	71	77	80	82	86	97	100	100A	
Dry Particulates + Filter Paper Wt, g	---	0.0809	0.0826	0.0813	0.0814	0.0826	0.0814	0.0825	0.0818	0.0856	0.0849	
Filter Paper Wt, g	---	0.0806	0.0819	0.0807	0.0809	0.0819	0.0809	0.0813	0.0803	0.0817	0.0805	
Dry Particulates Wt, g	---	0.0003	0.0007	0.0006	0.0005	0.0007	0.0005	0.0012	0.0015	0.0039	0.0044	
Volume (mL)	---	137	137	141	142	144	143	139	138	144	138	
Particulates TSS Conc. (mg/L)	---	2.190	5.109	4.255	3.521	4.861	3.497	8.633	10.870	27.083	31.884	
Turbidity (NTU)	---	1.0	0.90	0.90	1.2	1.7	1.2	1.6	1.7	11	17	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	31	32	33	34	35	36	37	38	39	40	
Dry Particulates + Filter Paper Wt, g	---	0.0784	0.0814	0.0736	0.0756	0.0788	0.0822	0.0735	0.0825	0.0794	0.0814	
Filter Paper Wt, g	---	0.0770	0.0803	0.0725	0.0737	0.0728	0.0801	0.0723	0.0815	0.0765	0.0777	
Dry Particulates Wt, g	---	0.0014	0.0011	0.0011	0.0019	0.0060	0.0021	0.0012	0.0010	0.0029	0.0037	
Volume (mL)	---	136	138	138	143	142	147	142	147	145	148	
Particulates TSS Conc. (mg/L)	---	10.294	7.971	7.971	13.287	42.254	14.286	8.451	6.803	20.000	25.000	
Turbidity (NTU)	---	2.4	2.8	2.2	2.2	3.2	2.2	2.7	2.7	8.5	14	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10031	CST Test #:	7
Test Start Date:	3/2/2007	Tested By:	md
Test Start Time:	9:08	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	75	88	80	116	95	92	57	63	183	52	
Dry Particulates + Filter Paper Wt, g	---	0.0859	0.0868	0.0807	0.0834	0.0835	0.0869	0.0778	0.0883	0.0890	0.0906	
Filter Paper Wt, g	---	0.0846	0.0848	0.0798	0.0826	0.0820	0.0856	0.0766	0.0869	0.0869	0.0875	
Dry Particulates Wt, g	---	0.0013	0.0020	0.0009	0.0008	0.0015	0.0013	0.0012	0.0014	0.0021	0.0031	
Volume (mL)	---	138	138	136	138	141	139	146	139	143	143	
Particulates TSS Conc. (mg/L)	---	9.420	14.493	6.618	5.797	10.638	9.353	8.219	10.072	14.685	21.678	
Turbidity (NTU)	---	2.9	3.7	1.7	1.5	2.9	3.1	2.4	3.5	6.7	13	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10031		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50272		
Test Comment:	---				
Sample Description:	Moist, light gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10031	---	Moist, light gray silt	92.2

Notes: Temperature of Drying : 110° Celsius

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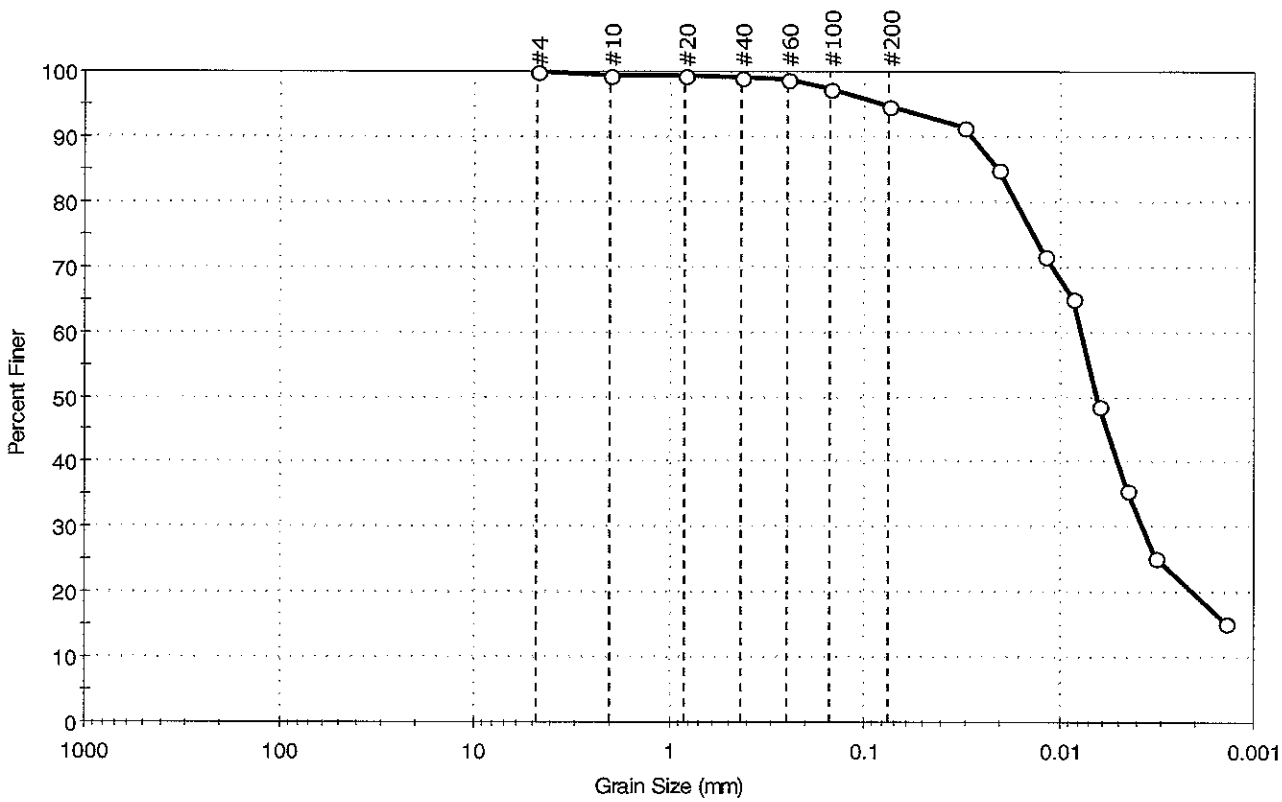
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10031		Test Date:	05/01/07	Checked By:	jdt
Depth : ---		Test Id:	109696		
Test Comment:	---				
Sample Description:	Moist, light gray silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	5.3	94.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	97		
#200	0.075	95		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0314	91		
---	0.0205	85		
---	0.0121	72		
---	0.0086	65		
---	0.0063	49		
---	0.0045	36		
---	0.0032	25		
---	0.0014	15		

Coefficients

D_{85} = 0.0207 mm	D_{30} = 0.0037 mm
D_{60} = 0.0078 mm	D_{15} = N/A
D_{50} = 0.0064 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (39))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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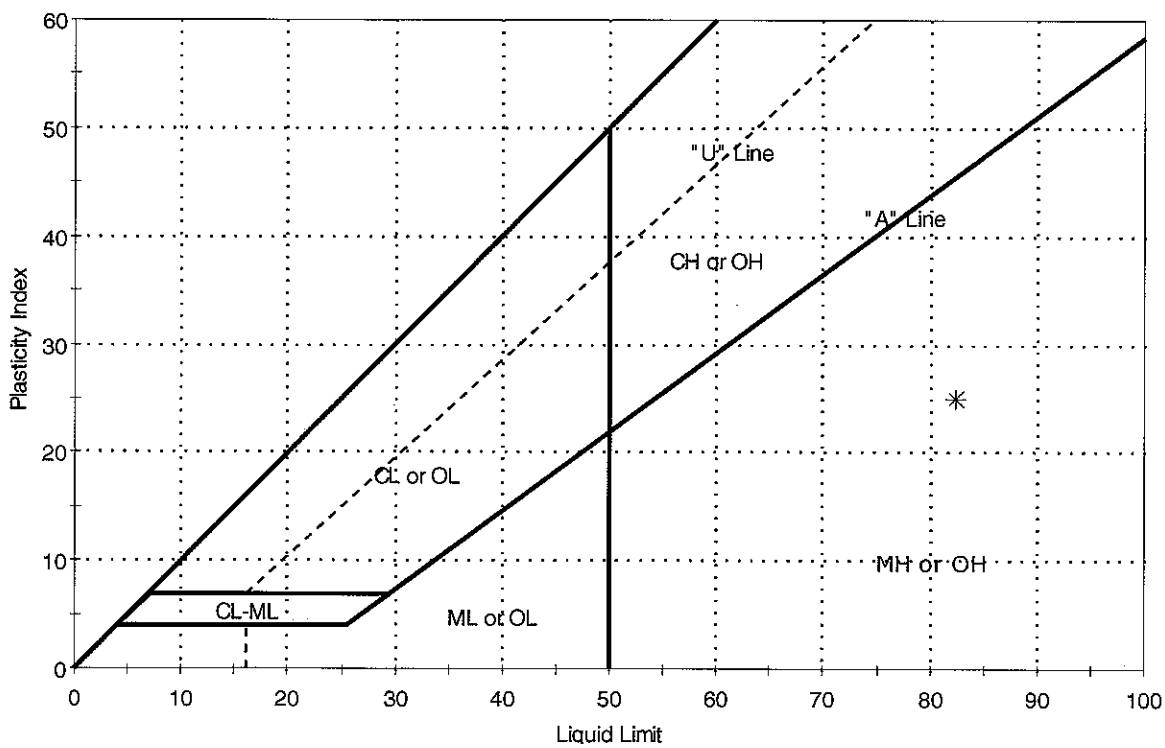
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-10031		Test Date:	05/10/07	Checked By:	jdt
Depth : ---		Test Id:	109713		
Test Comment:	---				
Sample Description:	Moist, light gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10031	---	---	92	82	57	25	1	elastic silt (MH)

Sample Prepared using the WET method
1% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	rmt
Sample ID:OL-STA-10031		Test Date:	05/03/07	Checked By:	jdt
Depth : ---		Test Id:	109747		
Test Comment:	---				
Sample Description:	Moist, light gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10031	---	Moist, light gray silt	2.4

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/27/07
Tested by:	md
Checked by:	jdt

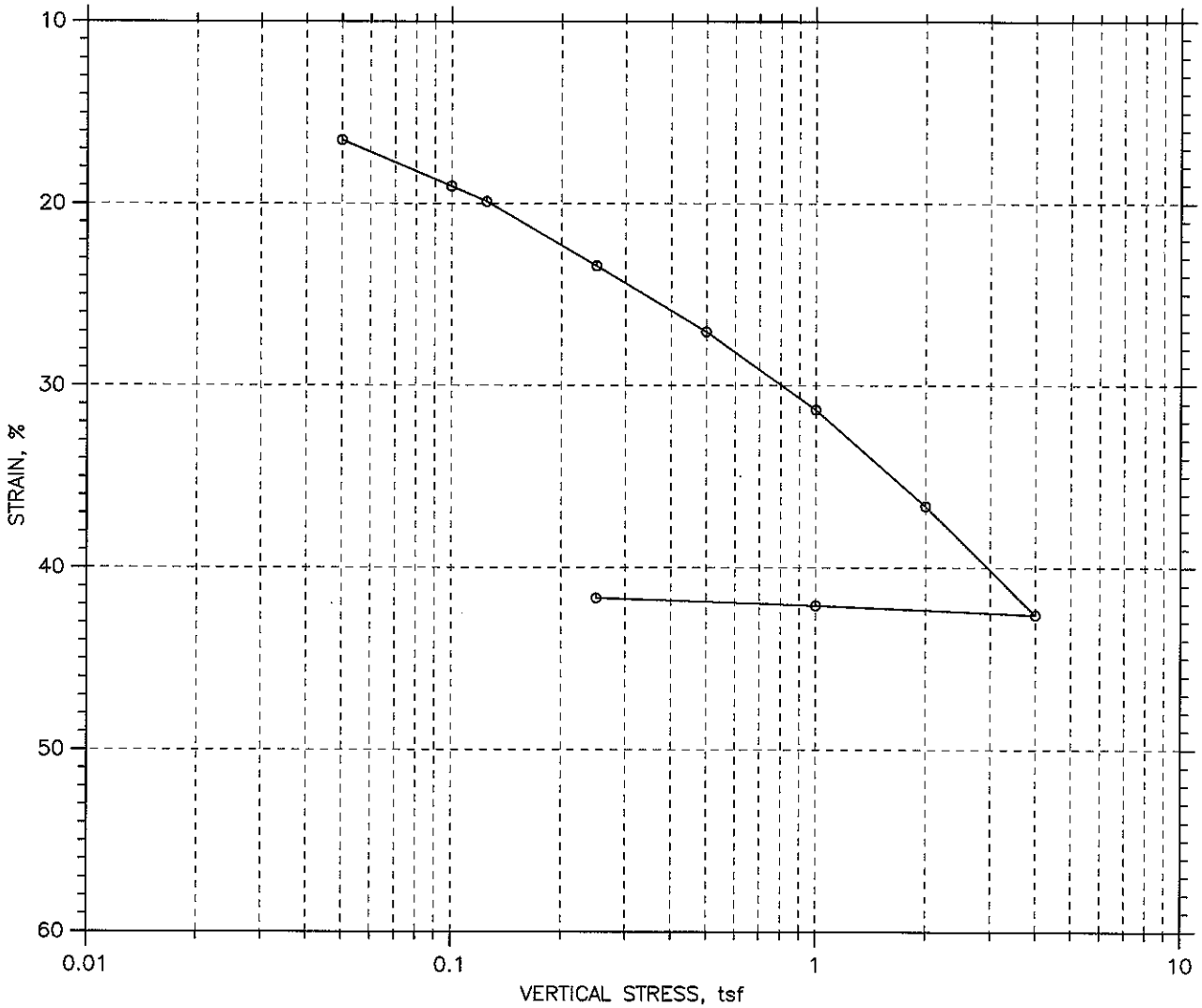
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10031	Moist, light gray silt	0.23	0.40	0.34	0.38	0.34

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	162.85	81.25
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	29.63	50.79
Compression Index: ---				Saturation, %	96.34	100.00
Diameter: 7.65 in		Height: 3.61 in		Void Ratio	4.06	1.95
LL: 82	PL: 57	PI: 25	GS: 2.40			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

Wed, 16-MAY-2007 12:08:24

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10031
Test No.: CST-7(LC12)

Location: Syracuse, NY
Tested By: md
Test Date: 04/24/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, light gray silt
Remarks: System D

Measured Specific Gravity: 2.40
Initial Void Ratio: 4.06
Final Void Ratio: 1.95

Liquid Limit: 82
Plastic Limit: 57
Plasticity Index: 25

Initial Height: 3.61 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	Y-2	RING		steph999
Wt. Container + Wet Soil, gm	135.53	3392	2339	223.05
Wt. Container + Dry Soil, gm	50.9	1290.5	1290.5	126.68
Wt. Container, gm	8.04	0	0	8.07
Wt. Dry Soil, gm	42.86	1290.5	1290.5	118.61
Water Content, %	197.46	162.85	81.25	81.25
Void Ratio	---	4.06	1.95	---
Degree of Saturation, %	---	96.34	100.00	---
Dry Unit Weight, pcf	---	29.629	50.79	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10031
Test No.: CST-7(LC12)

Location: Syracuse, NY
Tested By: md
Test Date: 04/24/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, light gray silt
Remarks: System D

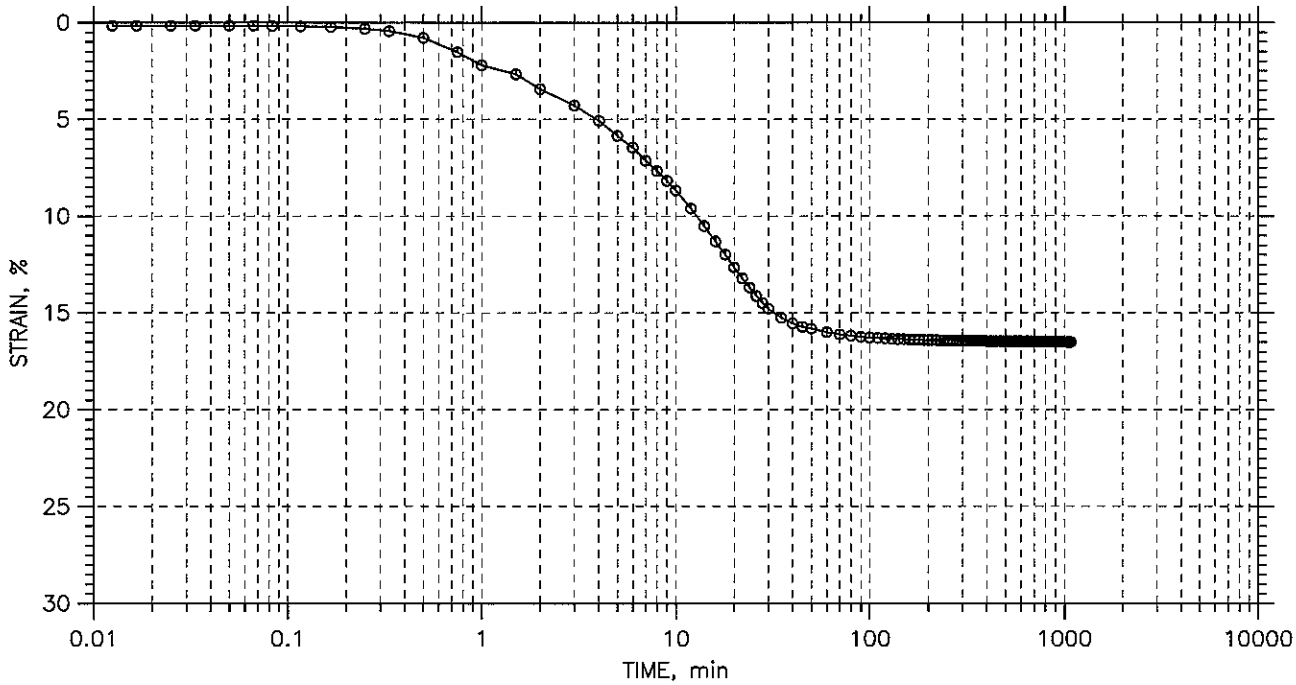
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.05	0.5959	3.222	16.51	10.3	0.0	8.73e-004	0.00e+000	8.73e-004
2	0.1	0.6876	3.094	19.05	4.1	3.9	1.78e-003	1.87e-003	1.82e-003
3	0.125	0.7182	3.051	19.90	11.9	11.8	5.85e-004	5.89e-004	5.87e-004
4	0.25	0.8455	2.872	23.42	1.9	2.3	3.48e-003	2.84e-003	3.13e-003
5	0.5	0.9761	2.690	27.04	1.4	1.5	4.20e-003	4.07e-003	4.13e-003
6	1	1.131	2.473	31.32	1.2	1.0	4.35e-003	5.17e-003	4.72e-003
7	2	1.322	2.206	36.61	0.8	0.8	5.70e-003	6.08e-003	5.88e-003
8	4	1.537	1.903	42.58	0.6	0.8	6.09e-003	5.16e-003	5.58e-003
9	1	1.519	1.929	42.08	0.0	0.0	7.13e-002	0.00e+000	7.13e-002
10	0.25	1.504	1.950	41.66	0.1	0.1	3.46e-002	4.20e-002	3.80e-002

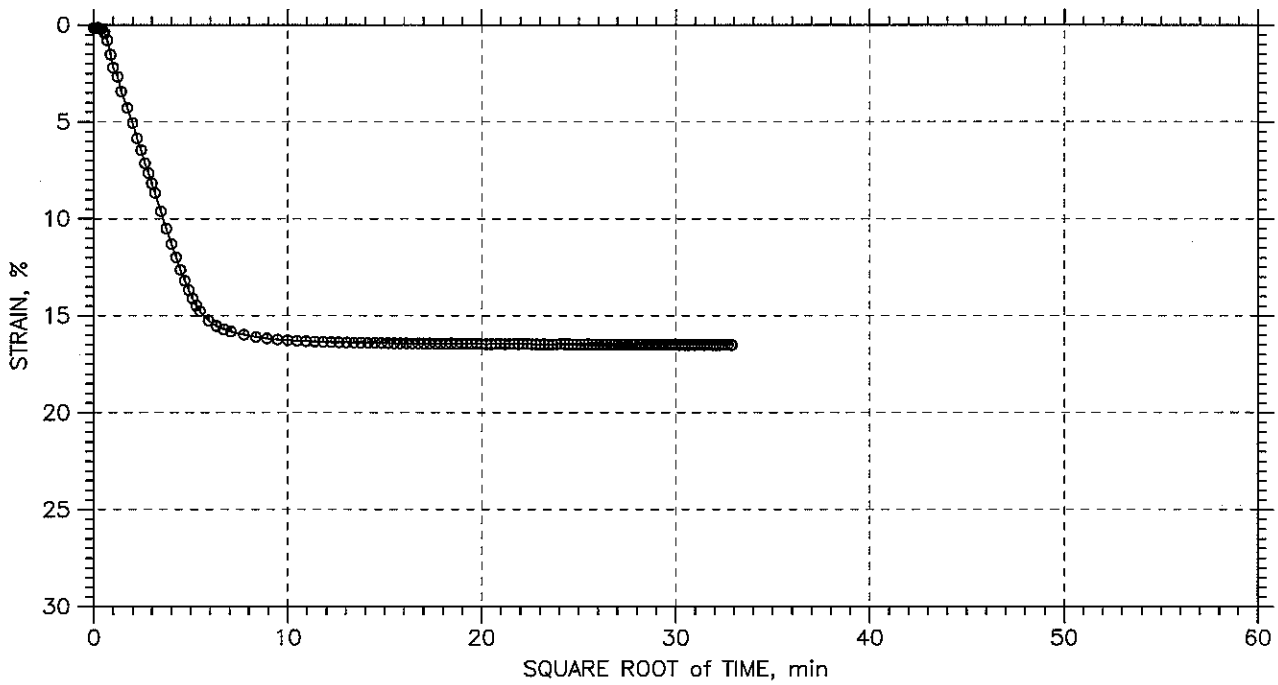
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

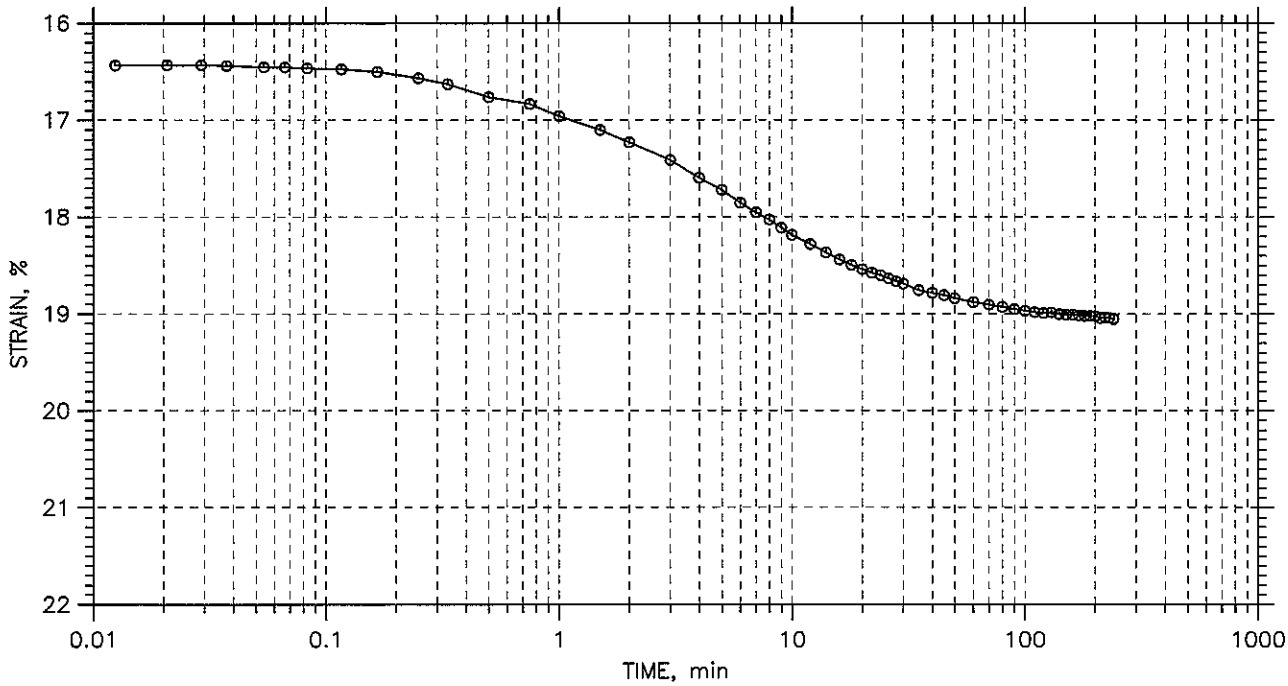
Wed, 16-MAY-2007 12:08:26

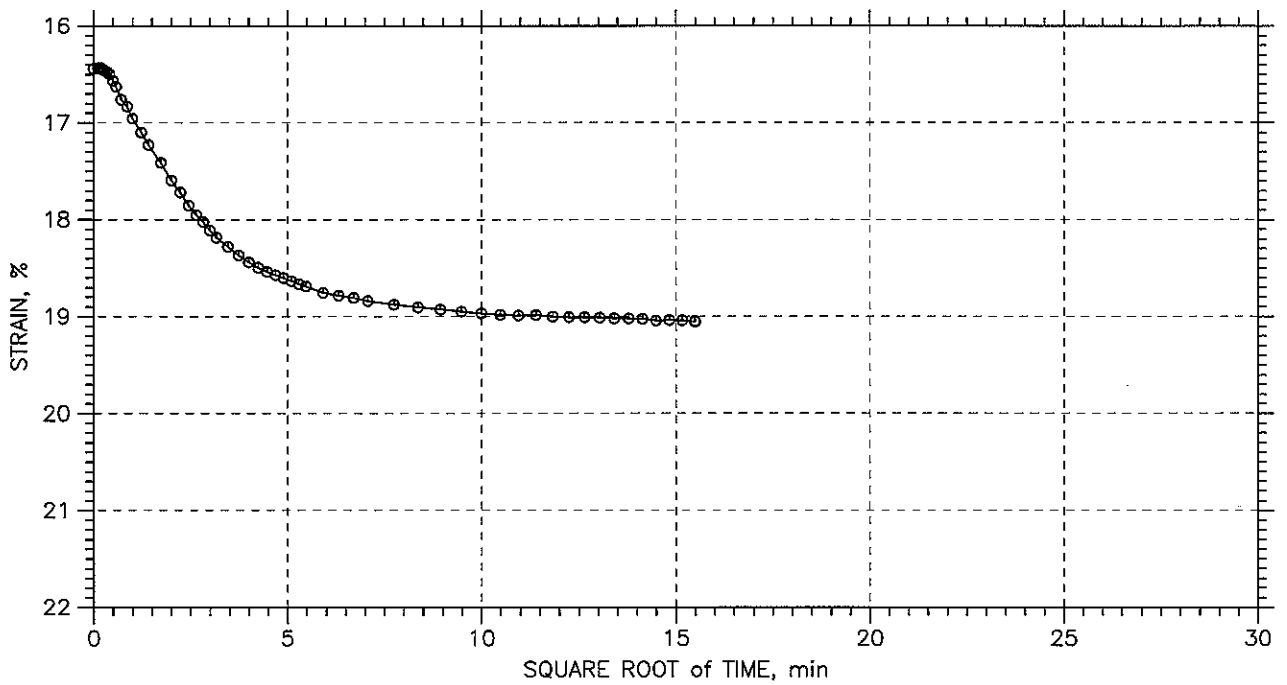
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

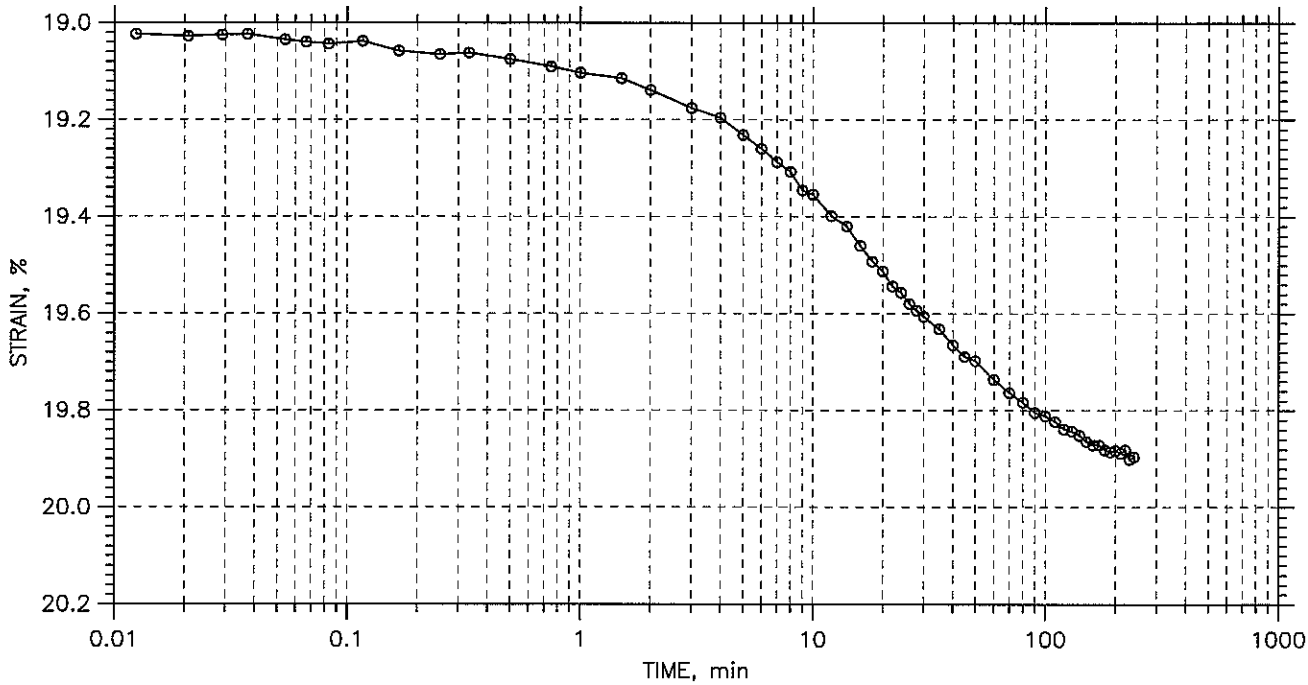
Wed, 16-MAY-2007 12:08:30

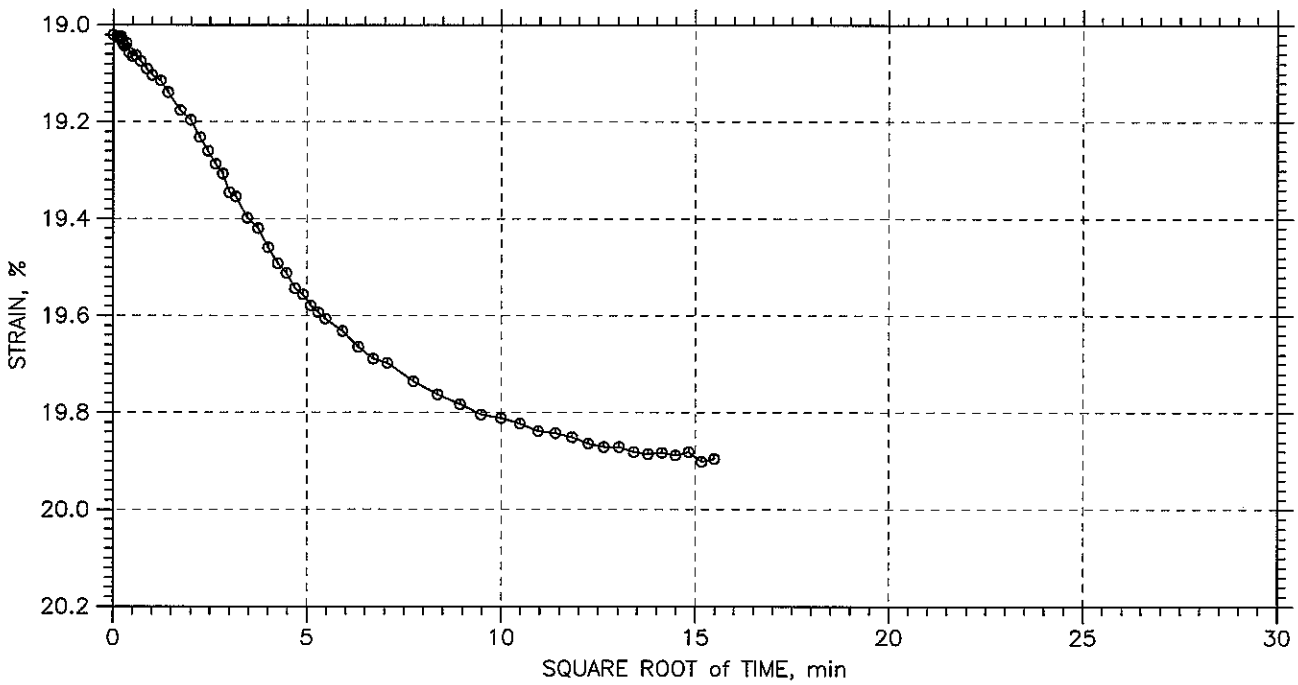
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

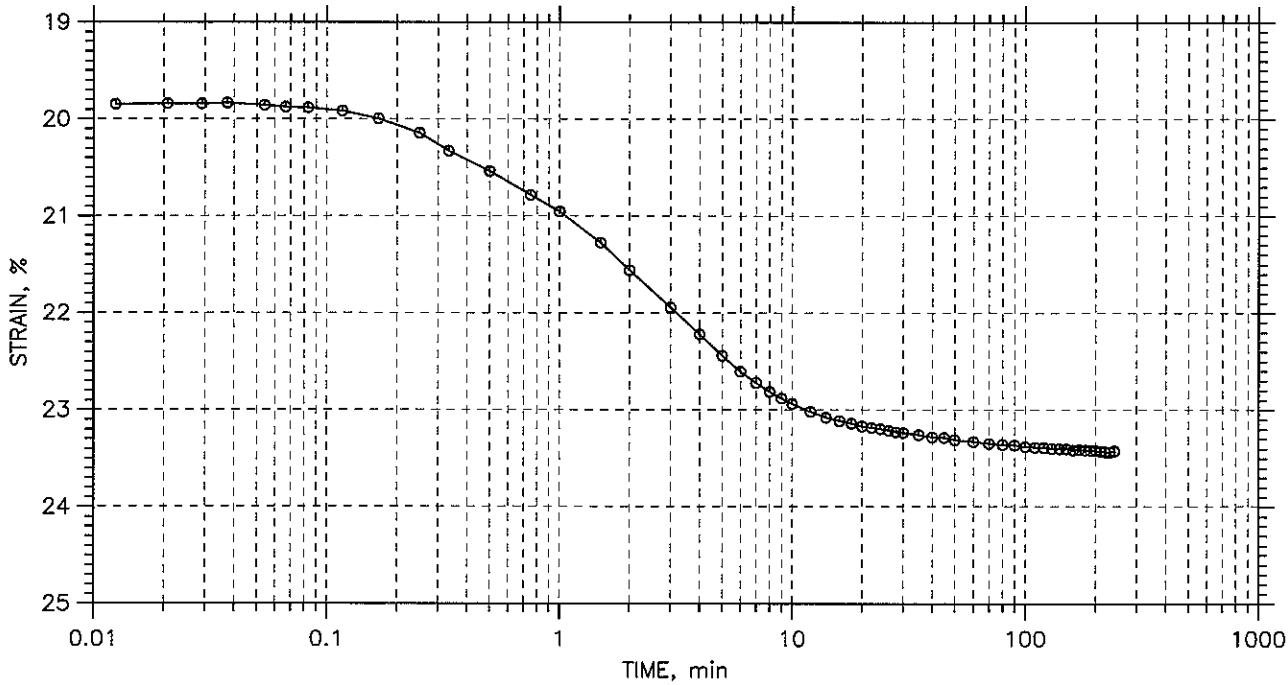
Wed, 16-MAY-2007 12:08:34

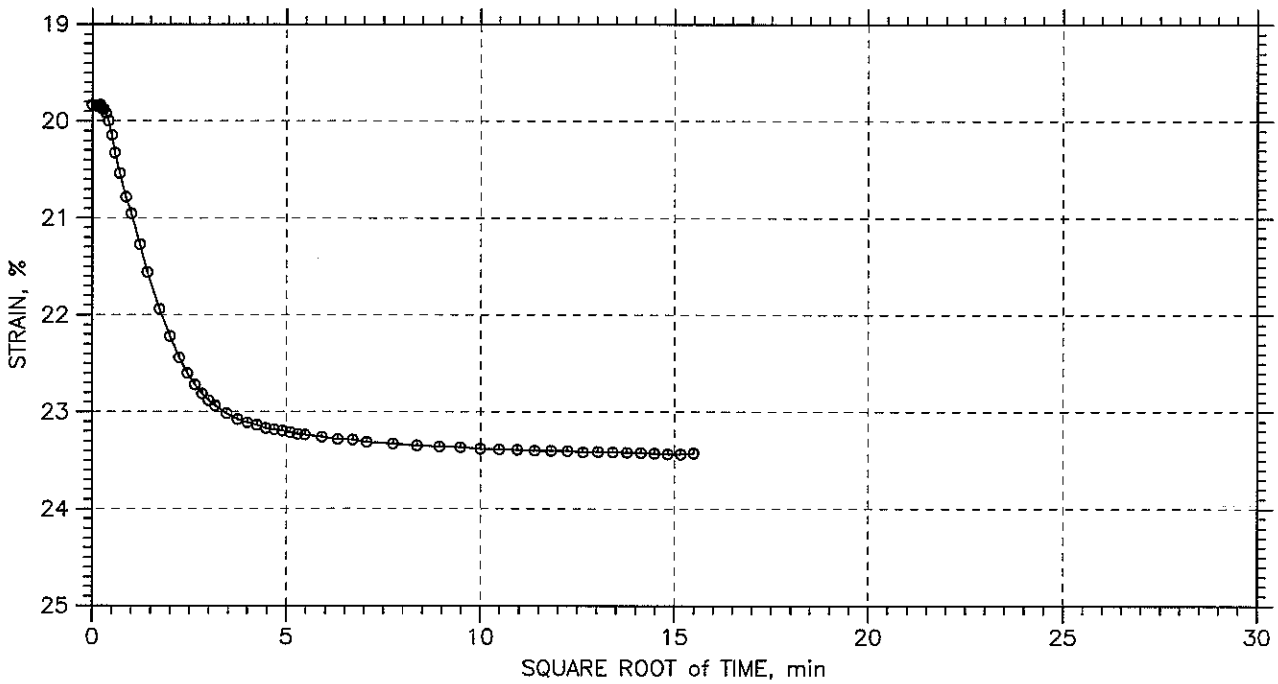
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

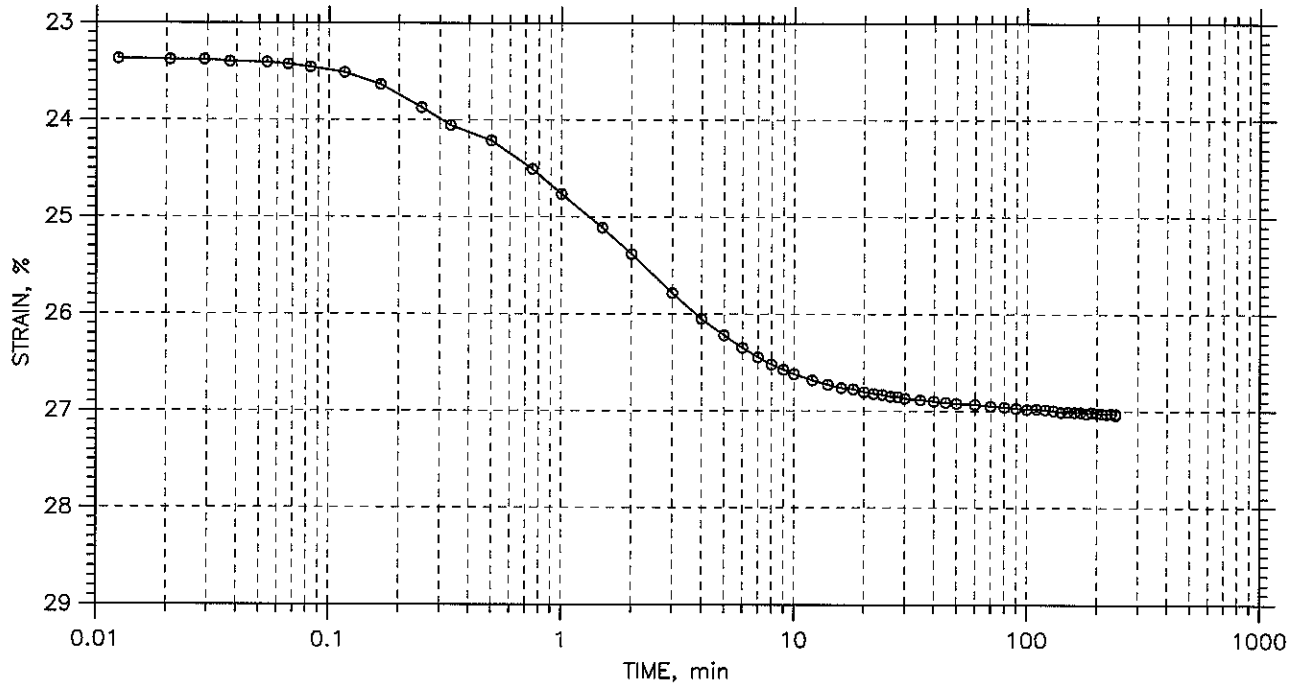
Wed, 16-MAY-2007 12:08:37

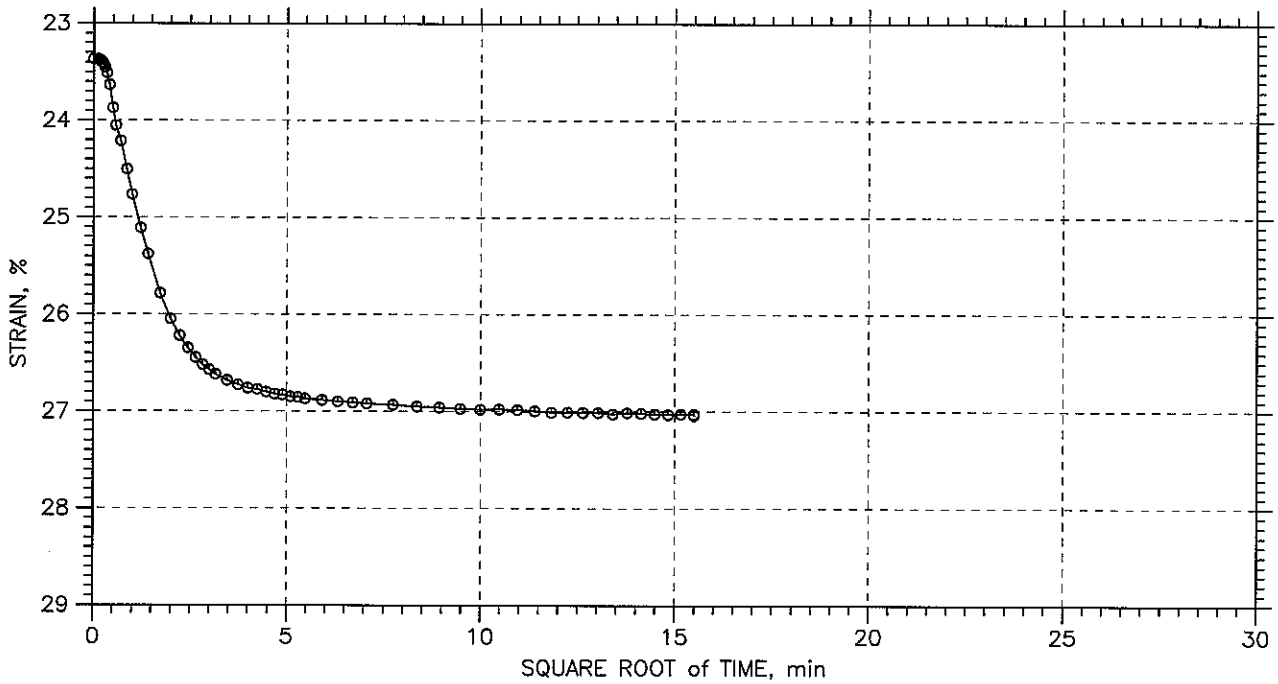
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

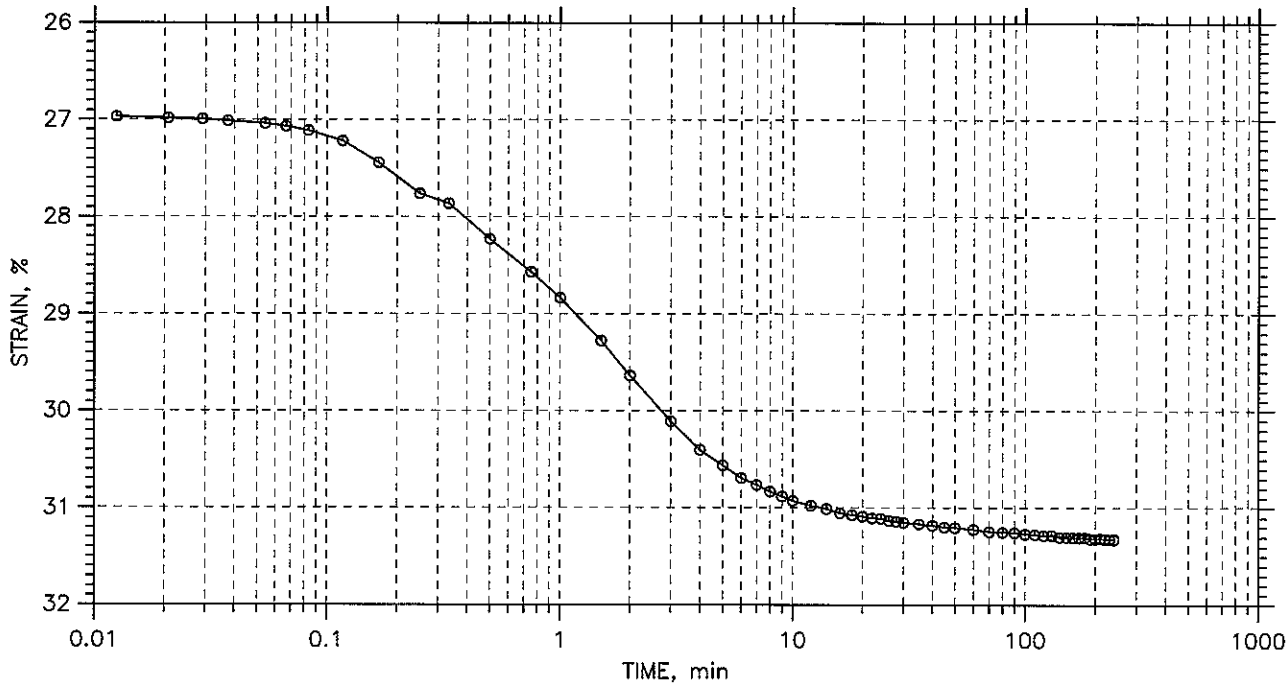
Wed, 16-MAY-2007 12:08:41

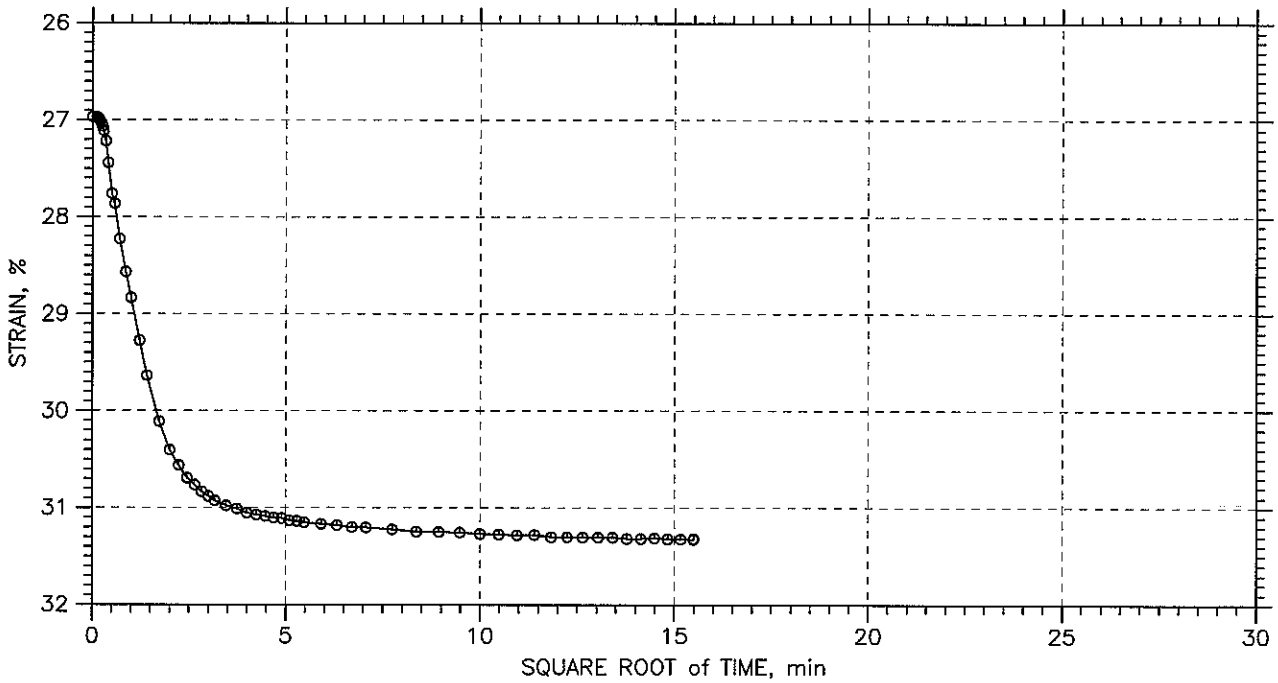
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

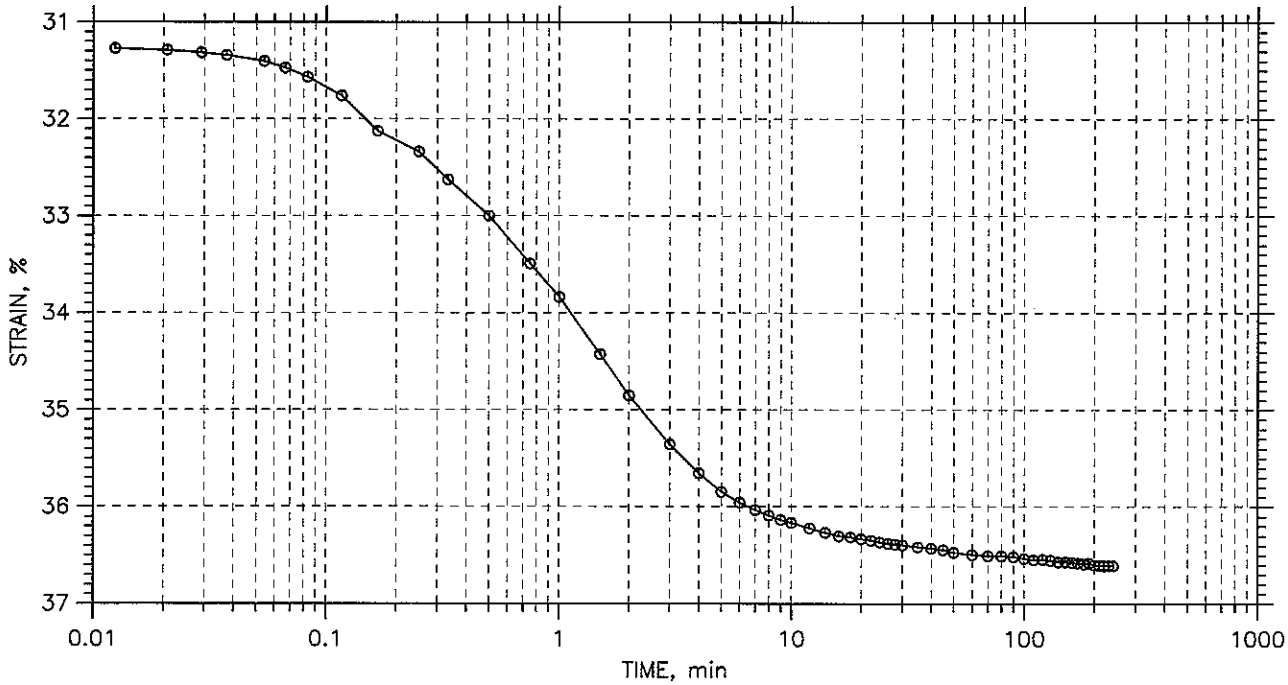
Wed, 16-MAY-2007 12:08:44

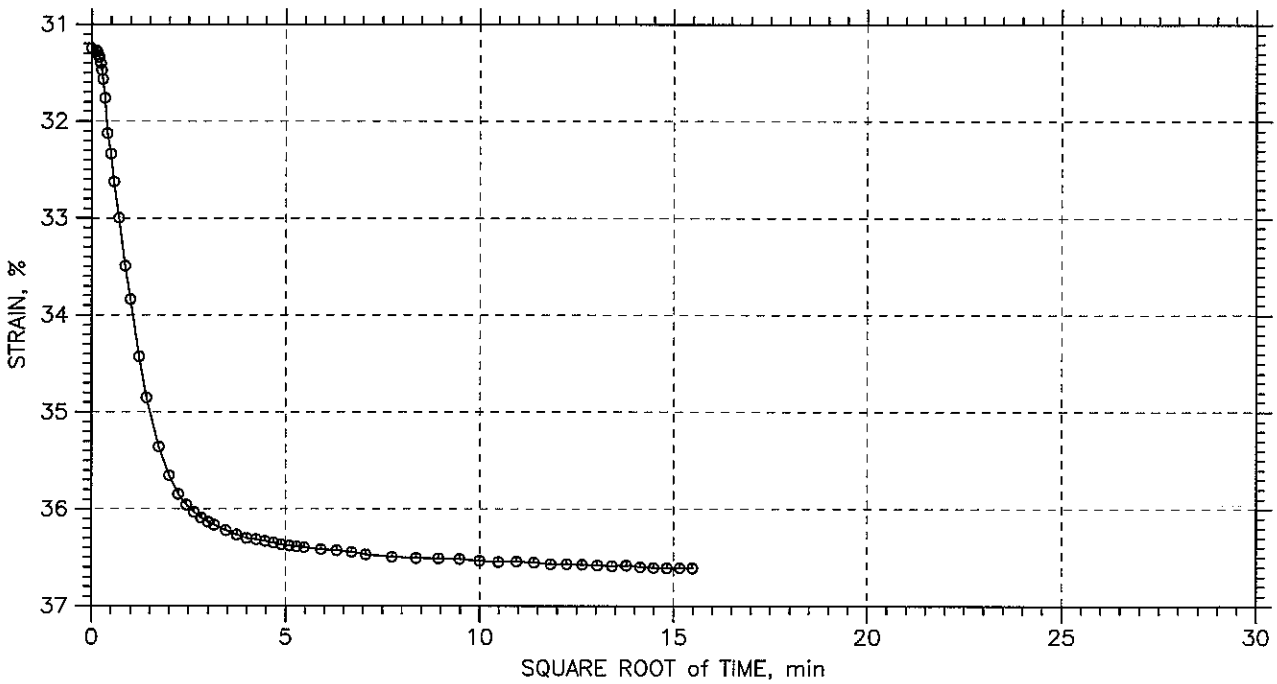
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

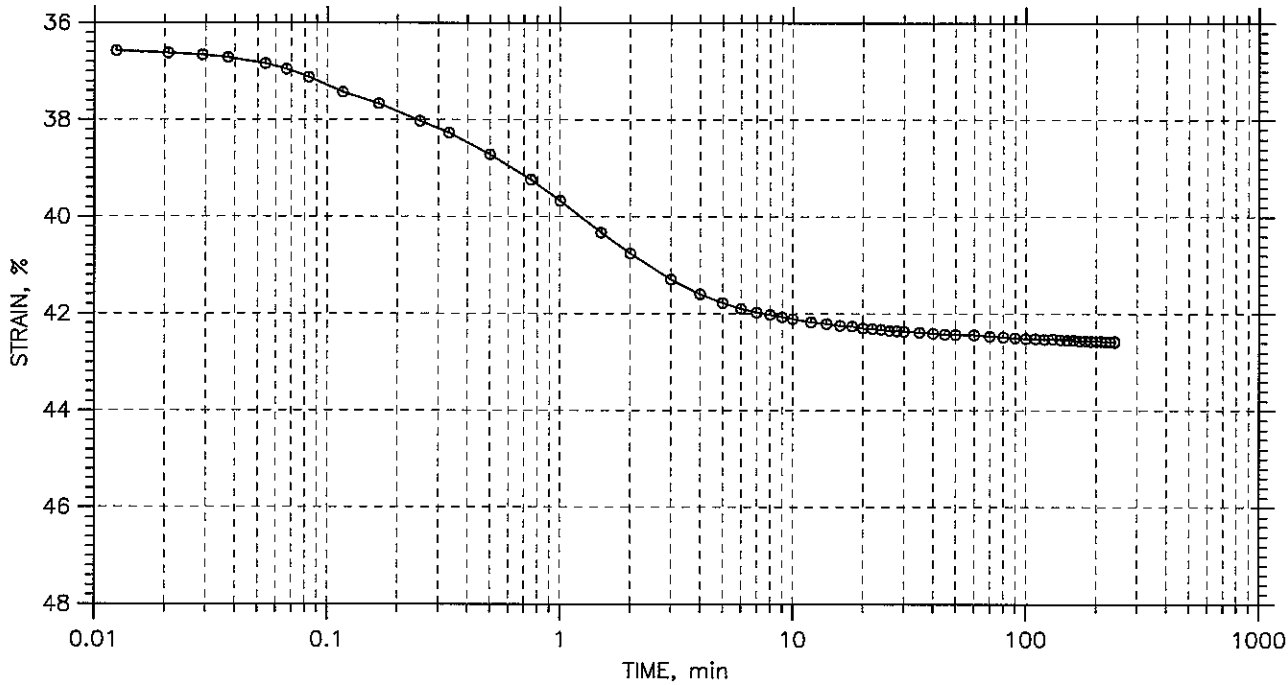
Wed, 16-MAY-2007 12:08:47

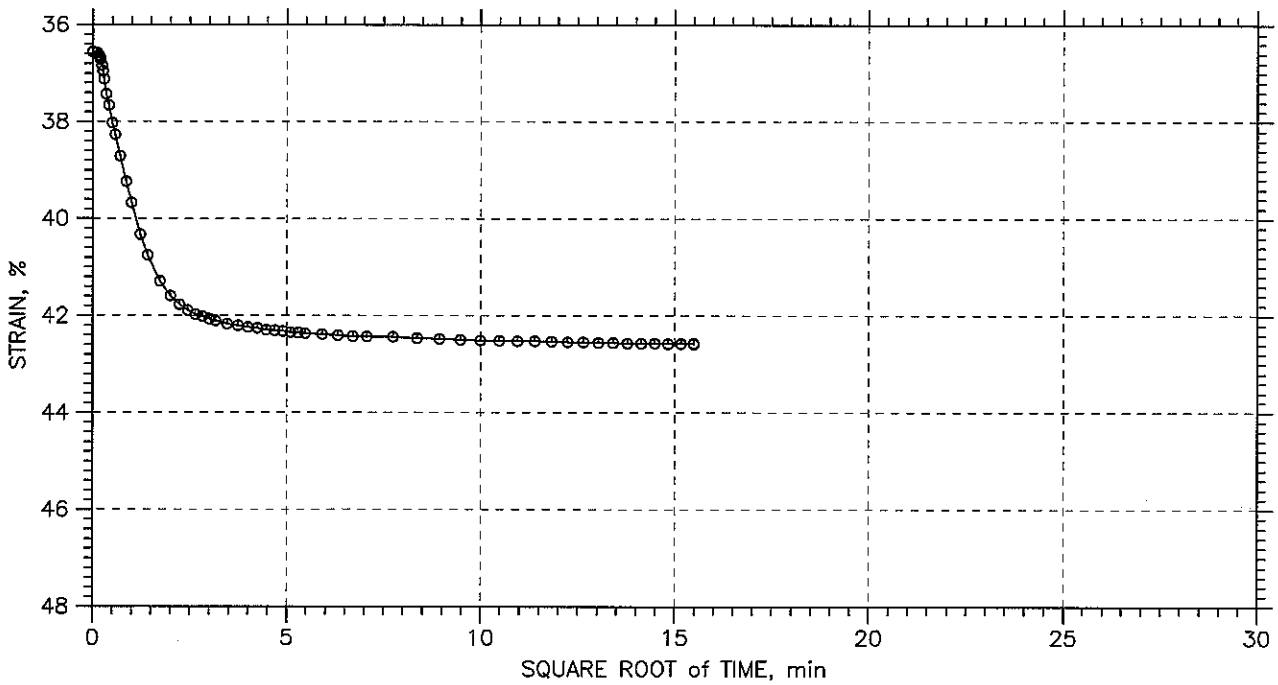
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

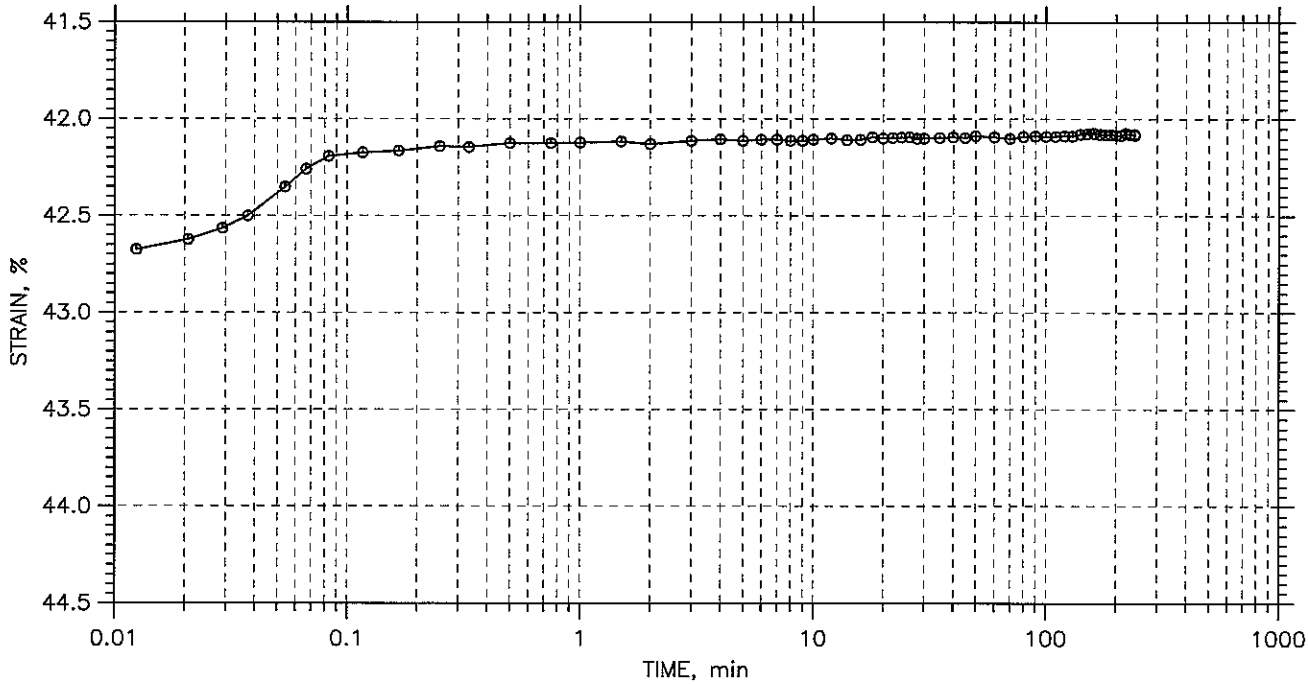
Wed, 16-MAY-2007 12:08:50

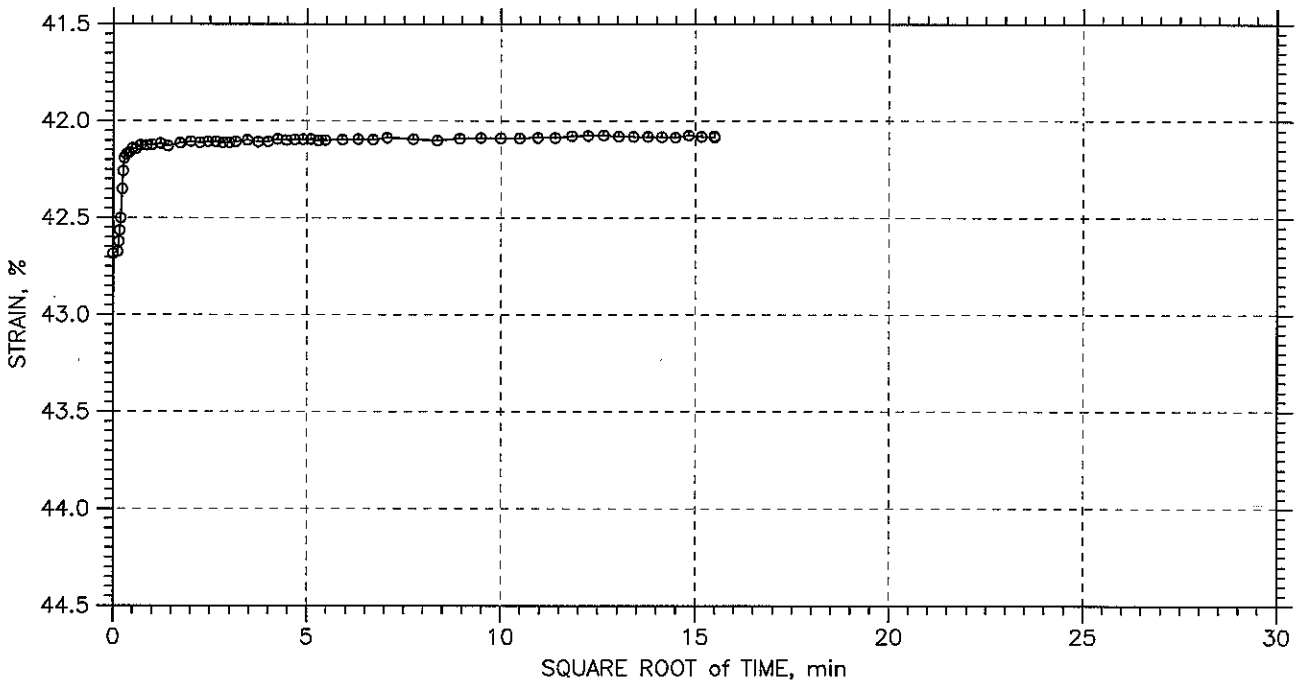
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

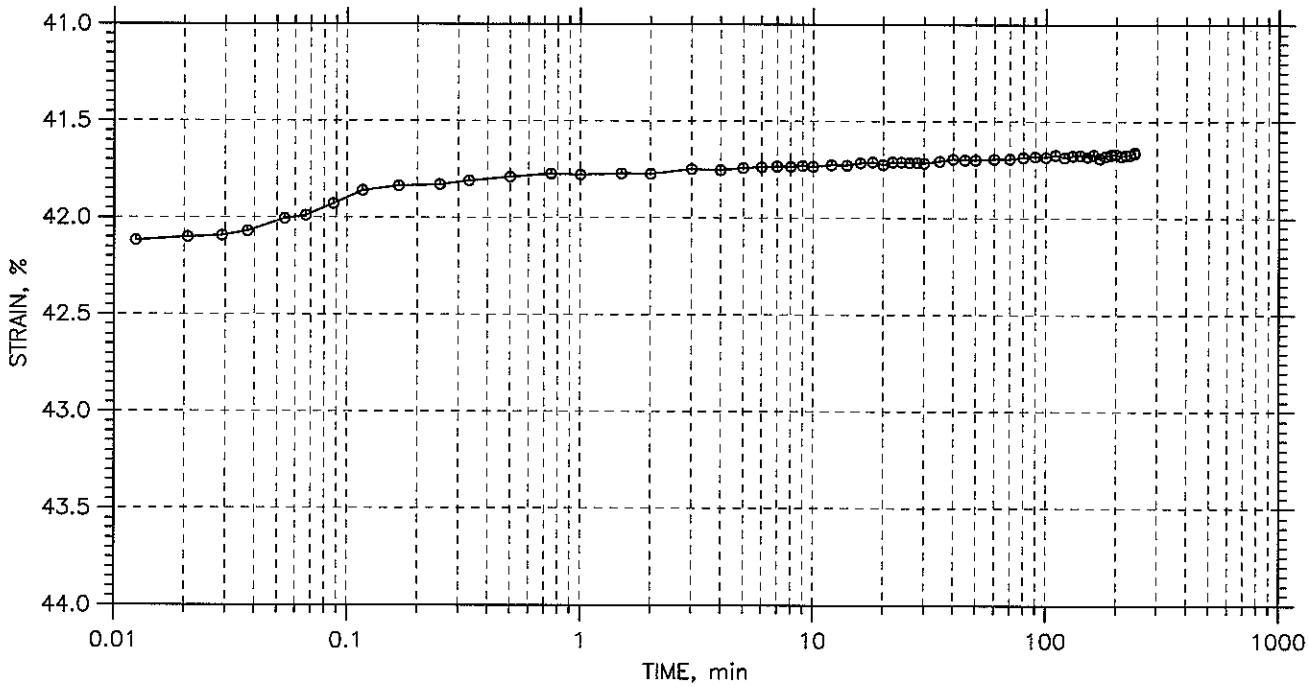
Wed, 16-MAY-2007 12:09:58

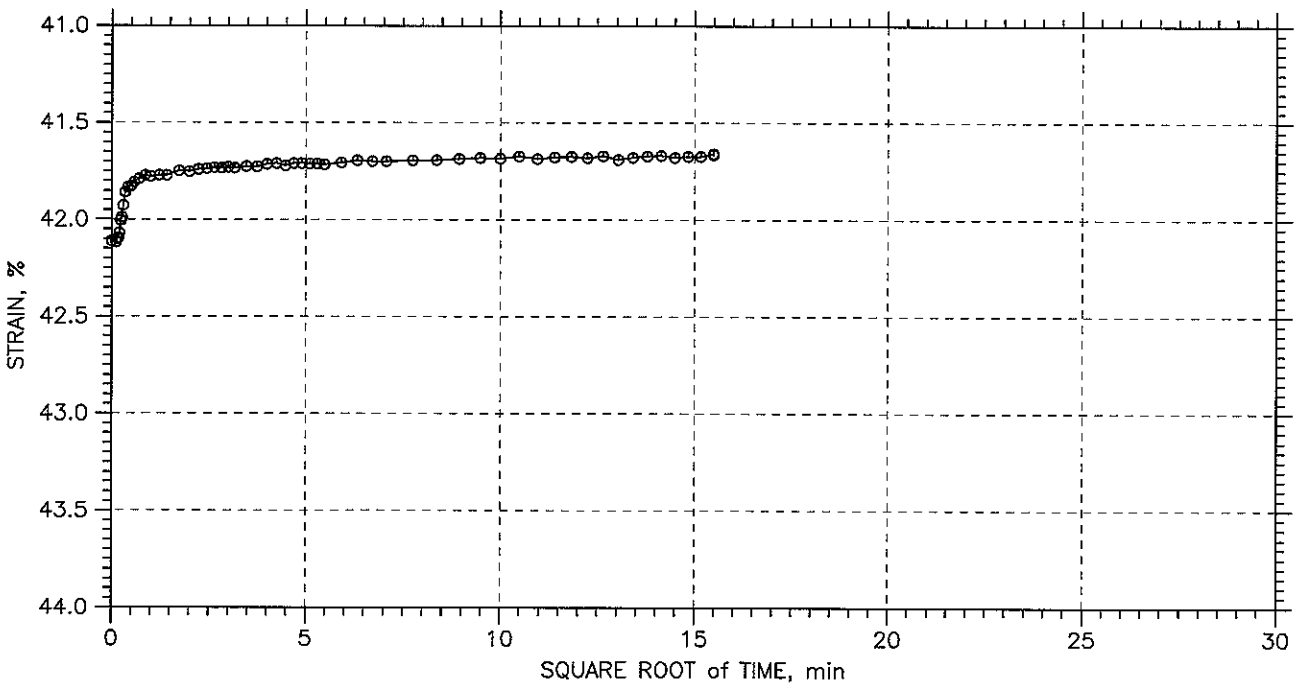
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10031	Test Date: 04/24/07	Depth: ---
	Test No.: CST-7(LC12)	Sample Type: Column	Elevation: ---
	Description: Moist, light gray silt		
	Remarks: System D		

Wed, 16-MAY-2007 12:10:27

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height	Solids Interface Height	Coarse Material Height	Ports Sampled/ Type of Analysis
02/20/07	8:15 AM	0	0.00	84.5	84.5		
	8:18 AM	3	0.05		61		
	8:21 AM	6	0.10		59		
	8:25 AM	10	0.17		57		
	8:32 AM	17	0.28		54.5		
	8:41 AM	26	0.43		51.4		
	8:45 AM	30	0.50		50		
	8:52 AM	37	0.62		48.2		
	8:55 AM	40	0.67		47.4		
	9:00 AM	45	0.75		46.1		
	9:05 AM	50	0.83		44.75		
	9:10 AM	55	0.92		43.6		
	9:15 AM	60	1.00		42.4		
	9:22 AM	65	1.08	83.3	40.75		
	9:26 AM	70	1.17		39.9		
	9:30 AM	75	1.25		38.9		
	9:36 AM	81	1.35		37.6		
	9:40 AM	85	1.42		36.7		
	9:45 AM	90	1.50		35.75		
	9:50 AM	95	1.58		34.6		
	9:55 AM	100	1.67		33.6		
	10:00 AM	105	1.75		32.6		
	10:05 AM	110	1.83		31.6		
	10:10 AM	115	1.92		30.6		
	10:20 AM	125	2.08		28.75		
	10:25 AM	130	2.17		27.8		
	10:30 AM	135	2.25	82.1	27		
	10:35 AM	140	2.33		26.1		
	10:40 AM	145	2.42		25.4		
	10:45 AM	150	2.50		24.6		
	10:50 AM	155	2.58		23.9		
	10:55 AM	160	2.67		23.2		
	11:00 AM	165	2.75		22.6		
	11:05 AM	170	2.83		22.4		
	11:10 AM	175	2.92		22.1		
	11:15 AM	180	3.00		21.9		
	11:20 AM	185	3.08		21.7		
	11:25 AM	190	3.17		21.6		
	11:30 AM	195	3.25		21.4		
	11:35 AM	200	3.33		21.25		
	11:40 AM	205	3.42		21.1		
	11:47 AM	212	3.53		20.9		
	12:00 PM	225	3.75		20.6		
	12:15 PM	240	4.00		20.4		
	12:25 PM	250	4.17	80.7	20.1		
	12:30 PM	255	4.25		20.1		
	12:45 PM	270	4.50		19.8		

GeoTesting express
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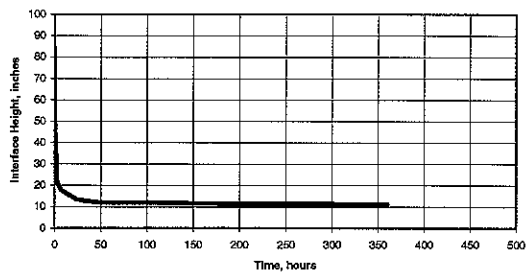
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height	Solids Interface Height	Coarse Material Height	Ports Sampled/ Type of Analysis
	1:00 PM	285	4.75		19.6		
	1:15 PM	300	5.00		19.4		
	1:30 PM	315	5.25		19.2		
	1:45 PM	330	5.50		19		
	2:00 PM	345	5.75		18.8		
	2:15 PM	360	6.00		18.7		
	2:32 PM	377	6.28	79.2	18.5		
	2:45 PM	390	6.50		18.4		
	3:00 PM	405	6.75		18.25		
	3:30 PM	435	7.25		17.9		
	4:00 PM	465	7.75		17.6		
02/21/07	7:15 AM	1380	23.00		13.6		
	8:20 AM	1445	24.08	77.1	13.5		
	10:15 AM	1560	26.00		13.3		
	4:15 AM	1920	32.00		12.8		
02/22/07	8:45 AM	2910	48.50	76.10	12.00		
02/24/07	8:25 AM	5770	96.17	74.30	11.90		
02/28/07	9:35 AM	11600	193.33	72.20	11.40		
03/07/07	8:15 AM	21600	360.00		11.25		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	---									
Wet Sample + Tare Wt, g	129.95	130.22	120.03									
Dried Sample + Tare Wt, g	73.55	74.84	71.84									
Tare Wt, g	66.97	68.09	66.26									
Water Wt, g	56.4	55.38	48.19									
Dried Sample Wt, g	6.58	6.75	5.58									
Salt Wt, g	0.037	0.036	0.031									
Particulates Wt, g	6.543	6.714	5.549									
Particulates Conc. (g/L)	110.9	115.6	110.1									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2										
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7					
Tare No.	14	39	99A	103A	104	102	102A					
Wet Sample + Tare Wt, g	105.98	114.01	112.45	116.27	119.45	132.21	116.96					
Dried Sample + Tare Wt, g	66.58	68.16	67.17	68.25	67.31	68.29	67.94					
Tare Wt, g	66.49	68.05	67.07	68.14	67.19	68.13	67.84					
Water Wt, g	39.4	45.85	45.28	48.02	52.14	63.92	49.02					
Dried Sample Wt, g	0.09	0.11	0.1	0.11	0.12	0.16	0.1					
Salt Wt, g	0.026	0.030	0.029	0.031	0.034	0.042	0.032					
Particulates Wt, g	0.064	0.080	0.071	0.079	0.086	0.118	0.068					
Particulates Conc. (g/L)	1.6	1.7	1.6	1.6	1.7	1.9	1.4					

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a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	121	42	115	34	105A	83	57	101A	75			
Wet Sample + Tare Wt, g	110.69	111.64	108.87	113.54	135.92	119.31	110.92	108.73	118.72			
Dried Sample + Tare Wt, g	68.17	67.42	66.12	66.47	67.70	67.38	67.69	67.38	68.23			
Tare Wt, g	68.09	67.33	66.03	66.37	67.55	67.26	67.61	67.29	68.12			
Water Wt, g	42.52	44.22	42.75	47.07	68.22	51.93	43.23	41.35	50.49			
Dried Sample Wt, g	0.08	0.09	0.09	0.1	0.15	0.12	0.08	0.09	0.11			
Salt Wt, g	0.028	0.029	0.028	0.031	0.044	0.034	0.028	0.027	0.033			
Particulates Wt, g	0.052	0.061	0.062	0.069	0.106	0.086	0.052	0.063	0.077			
Particulates Conc. (g/L)	1.2	1.4	1.5	1.5	1.5	1.7	1.2	1.5	1.5			

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	120	107	122	113	99	100	63	109	114	119		
Wet Sample + Tare Wt, g	105.55	110.80	107.74	114.51	111.79	121.14	116.17	121.22	144	116.19		
Dried Sample + Tare Wt, g	66.24	66.37	67.38	65.47	67.93	68.48	67.60	68.30	68.35	67.68		
Tare Wt, g	66.15	66.28	67.28	65.38	67.83	68.39	67.50	68.17	68.18	67.57		
Water Wt, g	39.31	44.43	40.36	49.04	43.86	52.66	48.57	52.92	75.65	48.51		
Dried Sample Wt, g	0.09	0.09	0.1	0.09	0.1	0.09	0.1	0.13	0.17	0.11		
Salt Wt, g	0.026	0.029	0.026	0.032	0.028	0.034	0.032	0.034	0.049	0.032		
Particulates Wt, g	0.064	0.061	0.074	0.058	0.072	0.056	0.068	0.096	0.121	0.078		
Particulates Conc. (g/L)	1.6	1.4	1.8	1.2	1.6	1.1	1.4	1.8	1.6	1.6		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	48	55	59	69	81	95	96	97	98	111	117	
Wet Sample + Tare Wt, g	105.53	111.26	112.75	111.91	115.86	115.73	122.09	118.39	119.72	122.96	131.49	
Dried Sample + Tare Wt, g	68.06	67.31	67.87	68.16	67.69	66.11	68.26	67.45	67.53	65.54	66.92	
Tare Wt, g	67.98	67.21	67.76	68.08	67.57	65.99	68.14	67.35	67.41	65.4	66.77	
Water Wt, g	37.47	43.95	44.88	43.75	48.17	49.62	53.83	50.94	52.19	57.42	64.57	
Dried Sample Wt, g	0.08	0.1	0.11	0.08	0.12	0.12	0.12	0.1	0.12	0.14	0.15	
Salt Wt, g	0.024	0.029	0.029	0.028	0.031	0.032	0.035	0.033	0.034	0.037	0.042	
Particulates Wt, g	0.056	0.071	0.081	0.052	0.089	0.088	0.085	0.067	0.086	0.103	0.108	
Particulates Conc. (g/L)	1.5	1.6	1.8	1.2	1.8	1.8	1.6	1.3	1.6	1.8	1.7	

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Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	151	152	153	154	155	156	157	158	159	160	85
Wet Sample + Tare Wt, g	---	115.45	117.81	117.83	117.53	117.40	121.56	136.70	122.59	128.49	128.24	128.54
Dried Sample + Tare Wt, g	---	67.76	68.05	68.02	67.36	67.08	66.71	68.04	66.89	66.91	67.07	67.78
Tare Wt, g	---	67.67	67.97	67.94	67.27	66.98	66.60	67.90	66.79	66.80	66.96	67.64
Water Wt, g	---	47.69	49.76	49.81	50.17	50.32	54.85	68.66	55.7	61.58	61.17	60.76
Dried Sample Wt, g	---	0.09	0.08	0.08	0.09	0.1	0.11	0.14	0.1	0.11	0.11	0.14
Salt Wt, g	---	0.031	0.032	0.032	0.033	0.033	0.036	0.045	0.036	0.040	0.040	0.039
Particulates Wt, g	---	0.059	0.048	0.048	0.057	0.067	0.074	0.095	0.064	0.070	0.070	0.101
Particulates Conc. (g/L)	---	1.2	1.0	1.0	1.1	1.3	1.4	1.4	1.1	1.1	1.1	1.7

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	4	5	6	7	9	11	12	14	15	16	17
Wet Sample + Tare Wt, g	---	114.46	105.28	106.53	107.54	112.03	116.14	107.55	121.34	115.99	117.72	121.39
Dried Sample + Tare Wt, g	---	66.49	67.39	68.17	68.18	67.65	65.90	66.32	66.61	68.20	67.43	66.92
Tare Wt, g	---	66.39	67.31	68.09	68.10	67.59	65.79	66.27	66.49	68.10	67.32	66.81
Water Wt, g	---	47.97	37.89	38.36	39.36	44.38	50.24	41.23	54.73	47.79	50.29	54.47
Dried Sample Wt, g	---	0.10	0.08	0.08	0.08	0.06	0.11	0.05	0.12	0.10	0.11	0.11
Salt Wt, g	---	0.031	0.025	0.025	0.026	0.029	0.033	0.027	0.036	0.031	0.033	0.035
Particulates Wt, g	---	0.069	0.055	0.055	0.054	0.031	0.077	0.023	0.084	0.069	0.077	0.075
Particulates Conc. (g/L)	---	1.4	1.5	1.4	1.4	0.7	1.5	0.6	1.5	1.4	1.5	1.4

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	41	42	43	44	45	46	48	49	52	55	57
Wet Sample + Tare Wt, g	---	108.82	104.86	108.47	111.18	119.19	112.19	115.25	111.87	113.63	119.03	128.07
Dried Sample + Tare Wt, g	---	66.11	67.41	67.62	65.97	67.93	66.08	68.10	67.59	67.75	67.34	67.74
Tare Wt, g	---	66.02	67.33	67.55	65.88	67.81	65.98	67.99	67.50	67.66	67.22	67.60
Water Wt, g	---	42.71	37.45	40.85	45.21	51.26	46.11	47.15	44.28	45.88	51.69	60.33
Dried Sample Wt, g	---	0.09	0.08	0.07	0.09	0.12	0.10	0.11	0.09	0.09	0.12	0.14
Salt Wt, g	---	0.028	0.024	0.027	0.029	0.033	0.030	0.031	0.029	0.030	0.034	0.039
Particulates Wt, g	---	0.062	0.056	0.043	0.061	0.087	0.070	0.079	0.061	0.060	0.086	0.101
Particulates Conc. (g/L)	---	1.5	1.5	1.1	1.3	1.7	1.5	1.7	1.4	1.3	1.7	1.7

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	57	58	59	63	64	65	67	69	52	72
Wet Sample + Tare Wt, g	---	---	106.09	109.38	111.4	122.29	119.81	125.86	114.48	115.34	128.06	128.98
Dried Sample + Tare Wt, g	---	---	67.69	67.47	67.87	67.61	67.39	67.65	68.02	68.19	67.78	67.69
Tare Wt, g	---	---	67.6	67.37	67.78	67.5	67.25	67.52	67.91	68.08	67.65	67.56
Water Wt, g	---	---	38.4	41.91	43.53	54.68	52.42	58.21	46.46	47.15	60.28	61.29
Dried Sample Wt, g	---	---	0.09	0.1	0.09	0.11	0.14	0.13	0.11	0.11	0.13	0.13
Salt Wt, g	---	---	0.025	0.027	0.028	0.036	0.034	0.038	0.030	0.031	0.039	0.040
Particulates Wt, g	---	---	0.065	0.073	0.062	0.074	0.106	0.092	0.080	0.079	0.091	0.090
Particulates Conc. (g/L)	---	---	1.7	1.7	1.4	1.4	2.0	1.6	1.7	1.7	1.5	1.5

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Project Location:	Syracuse, NY		
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Test Start Date:	2/20/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	5	6	7	9	12	14	15	16	17	61
Wet Sample + Tare Wt, g	---	---	114.63	115.15	113.67	122.41	121.42	123.75	145.03	124.49	128.80	128.98
Dried Sample + Tare Wt, g	---	---	67.41	68.18	68.22	67.71	66.35	66.60	68.27	67.45	66.94	68.10
Tare Wt, g	---	---	67.32	68.10	68.11	67.59	66.24	66.50	68.10	67.33	66.82	67.98
Water Wt, g	---	---	47.22	46.97	45.45	54.70	55.07	57.15	76.76	57.04	61.86	60.88
Dried Sample Wt, g	---	---	0.09	0.08	0.11	0.12	0.11	0.10	0.17	0.12	0.12	0.12
Salt Wt, g	---	---	0.031	0.031	0.030	0.036	0.036	0.037	0.050	0.037	0.040	0.040
Particulates Wt, g	---	---	0.059	0.049	0.080	0.084	0.074	0.063	0.120	0.083	0.080	0.080
Particulates Conc. (g/L)	---	---	1.3	1.1	1.8	1.5	1.3	1.1	1.6	1.5	1.3	1.3

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Project Location:	Syracuse, NY		
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Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	111	12	123	117	118	5	105					
Dry Particulates + Filter Paper Wt, g	0.0795	0.0848	0.0858	0.0850	0.0837	0.1008	0.0975					
Filter Paper Wt, g	0.0694	0.0747	0.0731	0.0702	0.0705	0.0877	0.0829					
Dry Particulates Wt, g	0.0101	0.0101	0.0127	0.0148	0.0132	0.0131	0.0146					
Volume (mL)	134	135	140	139	140	136	150					
Particulates TSS Conc. (mg/L)	75.373	74.815	90.714	106.475	94.286	96.324	97.333					
Turbidity (NTU)	75	70	85	85	70	70	70					

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Test Start Date:	2/20/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	48	29	46	33	30	97	55	36	7			
Dry Particulates + Filter Paper Wt, g	0.0890	0.0816	0.0769	0.0898	0.0889	0.0891	0.0945	0.0886	0.0810			
Filter Paper Wt, g	0.0826	0.0748	0.0700	0.0824	0.0828	0.0832	0.0877	0.0816	0.0727			
Dry Particulates Wt, g	0.0064	0.0068	0.0069	0.0074	0.0061	0.0059	0.0068	0.0070	0.0083			
Volume (mL)	135	136	140	141	140	138	145	142	137			
Particulates TSS Conc. (mg/L)	47.407	50.000	49.286	52.482	43.571	42.754	46.897	49.296	60.584			
Turbidity (NTU)	45	55	55	50	39	39	40	40	39			

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	100A	44	92	70	9	67	74	45	59	116		
Dry Particulates + Filter Paper Wt, g	0.0872	0.0801	0.0767	0.0876	0.0822	0.0751	0.0798	0.0757	0.0871	0.0803		
Filter Paper Wt, g	0.0818	0.0744	0.0706	0.0822	0.0774	0.0702	0.0742	0.0706	0.0824	0.0728		
Dry Particulates Wt, g	0.0054	0.0057	0.0061	0.0054	0.0048	0.0049	0.0056	0.0051	0.0047	0.0075		
Volume (mL)	134	130	132	137	136	146	145	135	142	134		
Particulates TSS Conc. (mg/L)	40.299	43.846	46.212	39.416	35.294	33.562	38.621	37.778	33.099	55.970		
Turbidity (NTU)	37	38	34	36	18	25	26	22	23	35		

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	5	12	15	17	18	25	26	29	33	36	46	
Dry Particulates + Filter Paper Wt, g	0.0925	0.0749	0.0877	0.0751	0.0737	0.0867	0.0776	0.0863	0.0863	0.0923	0.0766	
Filter Paper Wt, g	0.0877	0.0698	0.0827	0.0704	0.0695	0.0825	0.0732	0.0813	0.0809	0.0878	0.0703	
Dry Particulates Wt, g	0.0048	0.0051	0.0050	0.0047	0.0042	0.0042	0.0044	0.0050	0.0054	0.0045	0.0063	
Volume (mL)	133	138	135	134	140	138	140	142	138	141	150	
Particulates TSS Conc. (mg/L)	36.090	36.957	37.037	35.075	30.000	30.435	31.429	35.211	39.130	31.915	42.000	
Turbidity (NTU)	25	22	24	25	16	16	15	17	15	15	22	

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	162	163	164	165	166	167	168	169	170	79	161
Dry Particulates + Filter Paper Wt, g	---	0.0777	0.0768	0.0824	0.0841	0.0835	0.0826	0.0821	0.0823	0.0800	0.0794	0.0807
Filter Paper Wt, g	---	0.0746	0.0730	0.0786	0.0809	0.0808	0.0802	0.0789	0.0787	0.0775	0.0767	0.0772
Dry Particulates Wt, g	---	0.0031	0.0038	0.0038	0.0032	0.0027	0.0024	0.0032	0.0036	0.0025	0.0027	0.0035
Volume (mL)	---	137	138	136	136	138	141	143	136	142	138	136
Particulates TSS Conc. (mg/L)	---	22.628	27.536	27.941	23.529	19.565	17.021	22.378	26.471	17.606	19.565	25.735
Turbidity (NTU)	---	19	18	17	11	11	11	8.6	10	8.9	6.9	8.9

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Test Start Date:	2/20/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	19	21	24	25	26	27	28	29	30	33	34
Dry Particulates + Filter Paper Wt, g	---	0.0784	0.0741	0.0832	0.0763	0.0799	0.0827	0.0768	0.0814	0.0832	0.0887	0.1273
Filter Paper Wt, g	---	0.0770	0.0729	0.0811	0.0743	0.0777	0.0802	0.0739	0.0779	0.0780	0.0804	0.0828
Dry Particulates Wt, g	---	0.0014	0.0012	0.0021	0.002	0.0022	0.0025	0.0029	0.0035	0.0052	0.0083	0.0445
Volume (mL)	---	136	125	133	117	127	131	131	134	144	131	138
Particulates TSS Conc. (mg/L)	---	10.294	9.600	15.789	17.094	17.323	19.084	22.137	26.119	36.111	63.359	322.464
Turbidity (NTU)	---	9.9	9.2	10	8.9	9.7	10	13	16	27	45	220

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12	13
Tare No.	---	61	62	63	64	70	71	72	58	74	75	79	81
Dry Particulates + Filter Paper Wt, g	---	0.0802	0.0816	0.0797	0.0785	0.0801	0.0818	0.0814	0.0828	0.0831	0.0835	0.0860	0.1248
Filter Paper Wt, g	---	0.0795	0.0810	0.0790	0.0776	0.0786	0.0804	0.0786	0.0809	0.0802	0.0805	0.0790	0.0803
Dry Particulates Wt, g	---	0.0007	0.0006	0.0007	0.0009	0.0015	0.0014	0.0028	0.0019	0.0029	0.0030	0.0070	0.0445
Volume (mL)	---	134	130	131	135	137	137	141	134	135	137	145	143
Particulates TSS Conc. (mg/L)	---	5.224	4.615	5.344	6.667	10.949	10.219	19.858	14.179	21.481	21.898	48.276	311.189
Turbidity (NTU)	---	7.3	5.7	6.2	6.5	6.6	6.7	7.8	8.0	11	15	30	190

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Test Start Date:	2/20/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12	13
Tare No.	---	---	38	39	40	41	42	43	44	45	46	48	81
Dry Particulates + Filter Paper Wt, g	---	---	0.0816	0.0817	0.0817	0.0821	0.0806	0.0819	0.0816	0.0832	0.0826	0.0834	0.0978
Filter Paper Wt, g	---	---	0.0809	0.0806	0.0805	0.0811	0.0801	0.0804	0.0806	0.0819	0.0812	0.0807	0.0797
Dry Particulates Wt, g	---	---	0.0007	0.0011	0.0012	0.0010	0.0005	0.0015	0.0010	0.0013	0.0014	0.0027	0.0181
Volume (mL)	---	---	137	137	140	142	140	151	132	143	149	140	128
Particulates TSS Conc. (mg/L)	---	---	5.109	8.029	8.571	7.042	3.571	9.934	7.576	9.091	9.396	19.286	141.406
Turbidity (NTU)	---	---	3.0	2.6	3.0	2.7	2.6	3.3	3.6	4.4	6.2	14	85

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10114	CST Test #:	4
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	8:15	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12	13
Tare No.	---	---	122	152	176	178	180	183	184	192	207	74	41
Dry Particulates + Filter Paper Wt, g	---	---	0.0813	0.0826	0.081	0.0812	0.0809	0.0815	0.0808	0.0817	0.0807	0.0824	0.0829
Filter Paper Wt, g	---	---	0.0802	0.0814	0.0804	0.0805	0.0804	0.0808	0.0798	0.0805	0.0791	0.0799	0.0802
Dry Particulates Wt, g	---	---	0.0011	0.0012	0.0006	0.0007	0.0005	0.0007	0.001	0.0012	0.0016	0.0025	0.0027
Volume (mL)	---	---	139	139	142	142	142	148	149	145	142	145	143
Particulates TSS Conc. (mg/L)	---	---	7.914	8.633	4.225	4.930	3.521	4.730	6.711	8.276	11.268	17.241	18.881
Turbidity (NTU)	---	---	2.6	2.5	1.9	2.1	2.2	1.9	1.9	2.1	3.8	4.4	28

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10114		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50269		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10114	---	Moist, yellow silt	73.2

Notes: Temperature of Drying : 110° Celsius

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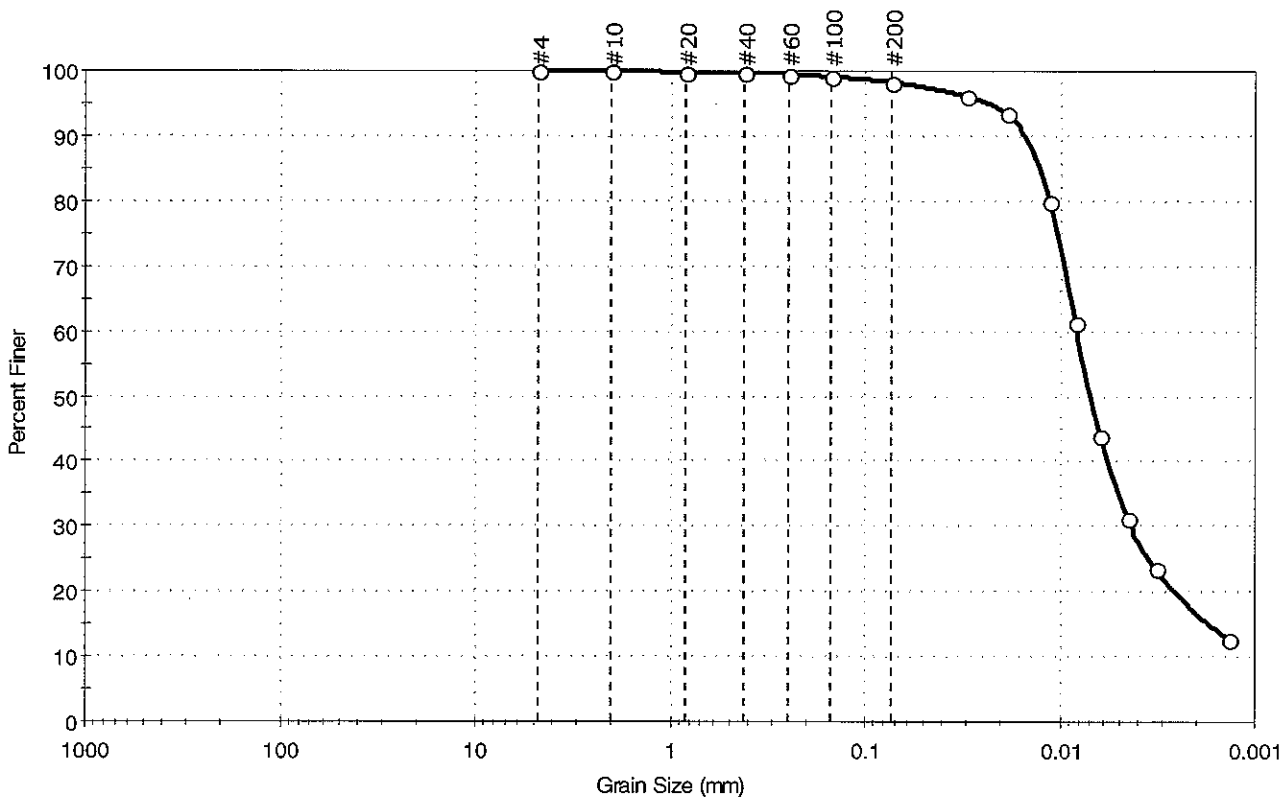
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-10114	Test Date:	04/04/07	Checked By:	jdt
Depth :	---	Test Id:	109693		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.7	98.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0304	96		
---	0.0190	93		
---	0.0114	80		
---	0.0084	61		
---	0.0062	44		
---	0.0045	31		
---	0.0033	24		
---	0.0014	13		

Coefficients

D_{85} = 0.0137 mm	D_{30} = 0.0043 mm
D_{60} = 0.0082 mm	D_{15} = 0.0016 mm
D_{50} = 0.0069 mm	D_{10} = 0.0011 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (31))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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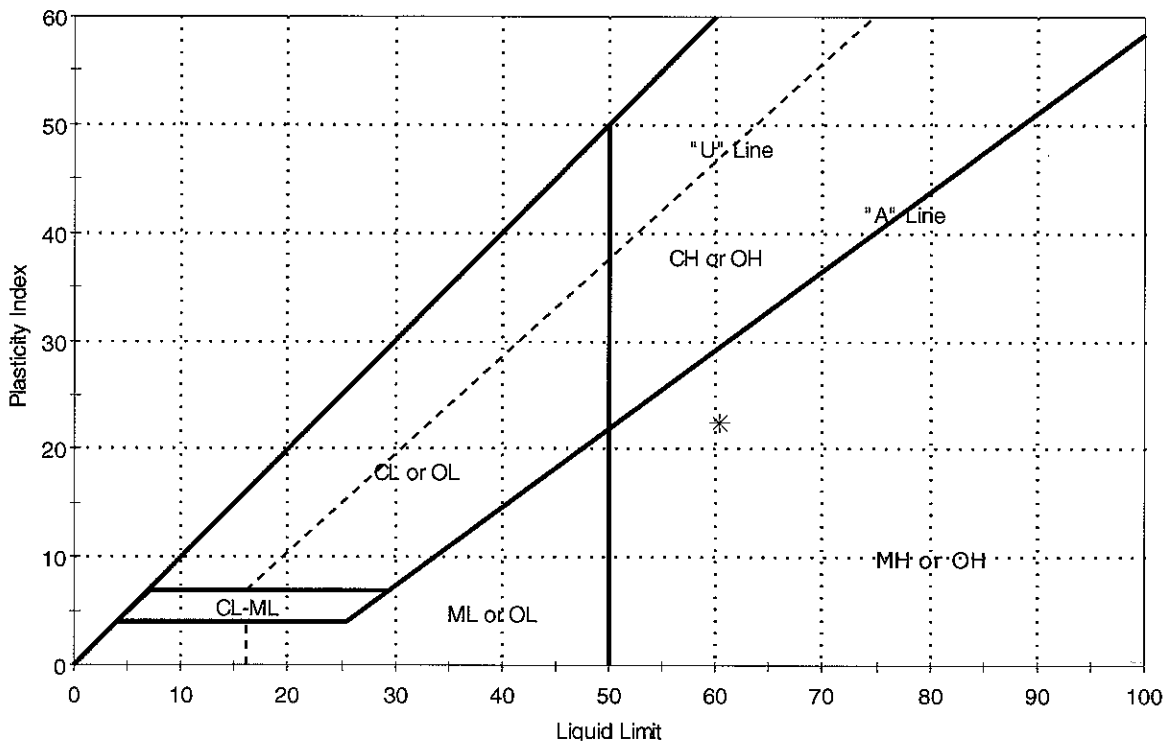
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-10114		Test Date:	05/03/07	Checked By:	jdt
Depth : ---		Test Id:	109710		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10114	---	---	73	60	38	22	2	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-10114	Test Date:	04/09/07	Checked By:	jdt
Depth :	---	Test Id:	109744		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10114	---	Moist, yellow silt	2.56

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

GeoTesting express
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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	03/12/07
Tested by:	md
Checked by:	jdt

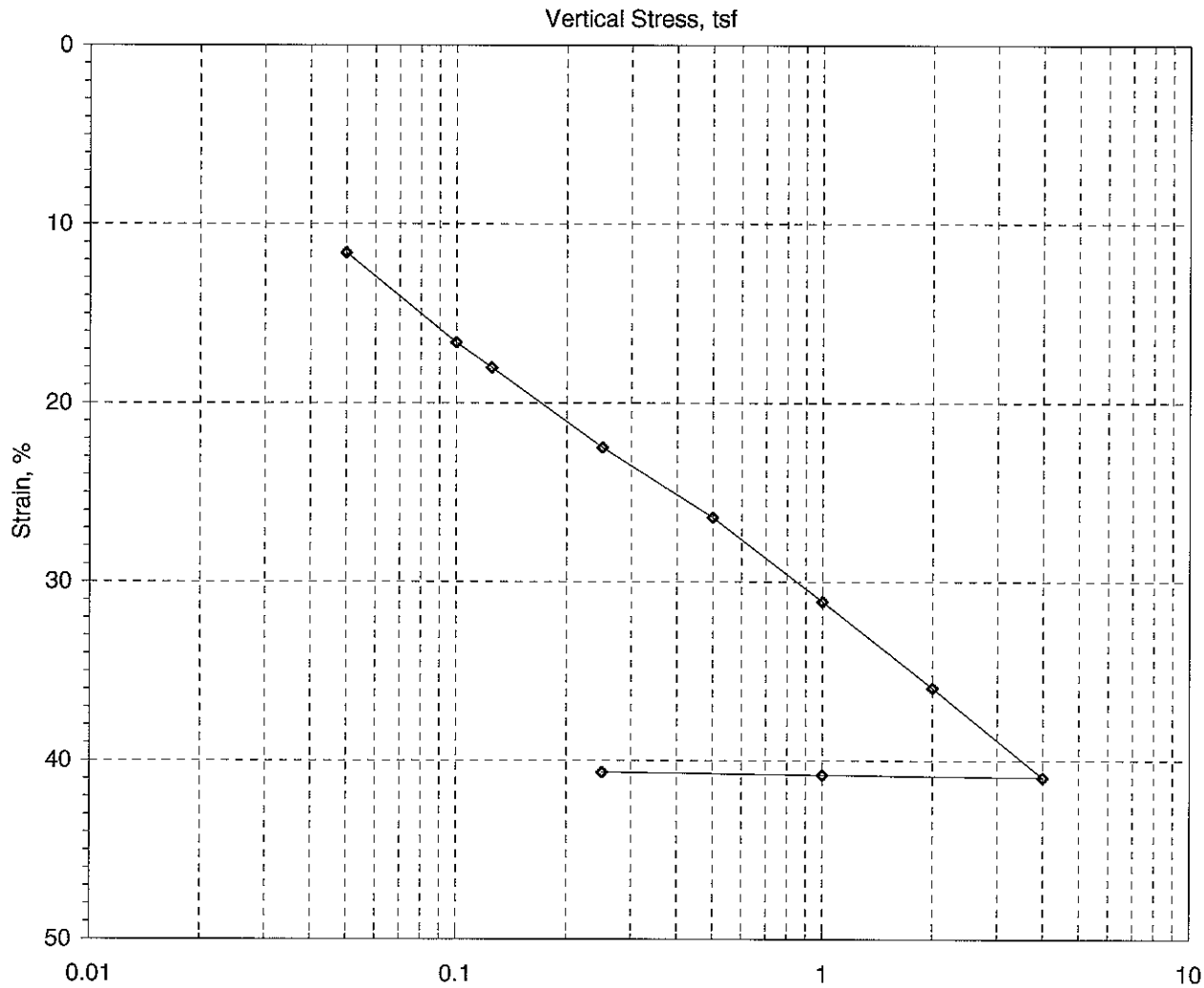
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10114	Moist, yellow silt	0.31	0.33	0.34	0.33	0.33

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	297	64
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	35.0	59.0
Compression Index:	---			Saturation, %	97.9	95.5
Diameter:	11.0 in	Initial Height:	9.65 in	Void Ratio	3.57	1.71
LL: 60	PL: 38	PI: 22	GS: 2.56			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10114
Test No.:CST 4 (LC-2)

Location: Syracuse, NY
Tested By: md
Test Date: 03/10/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, yellow silt
Remarks: System Q

Measured Specific Gravity: 2.56
Initial Void Ratio: 3.57
Final Void Ratio: 1.71

Liquid Limit: 60
Plastic Limit: 38
Plasticity Index: 22

Initial Height: 9.65 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		2763	RING		unknown
Wt. Container + Wet Soil,	gm	198.52	36140	30020	249.62
Wt. Container + Dry Soil,	gm	126	24648	24648	155.71
Wt. Container, gm		101.55	16220	16220	8.37
Wt. Dry Soil, gm		24.45	8428.2	8428.2	147.34
Water Content, %		296.6	136.4	63.7	63.7
Void Ratio		---	3.567	1.71	---
Degree of Saturation, %		---	97.9	95.5	---
Dry Unit Weight, pcf		---	35.0	59.0	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10114
Test No.: CST 4 (LC-2)

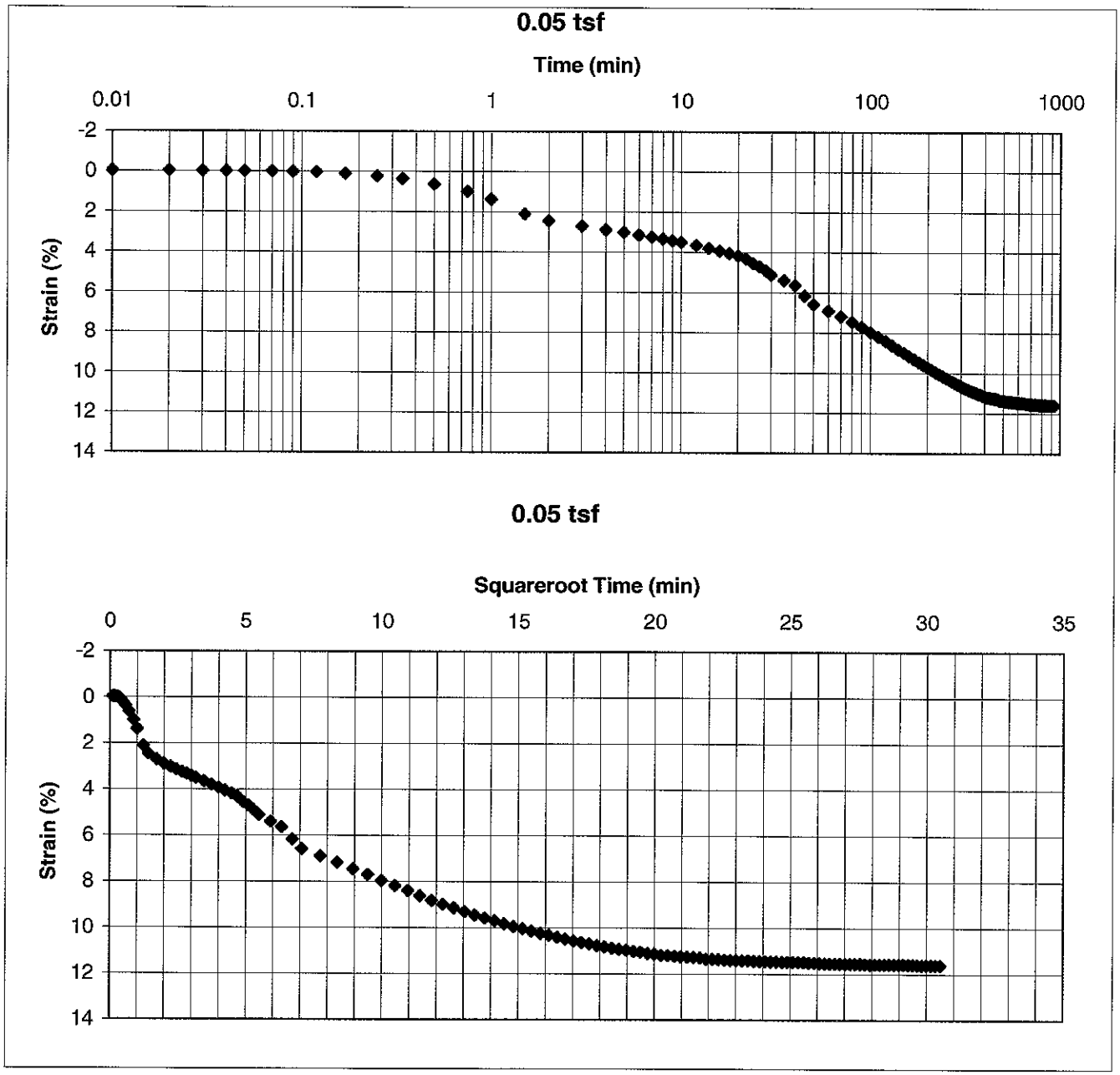
Location: Syracuse, NY
Tested By: md
Test Date: 03/10/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, yellow silt
Remarks: System Q

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	1.119	3.035	17.349	244.3	0	1.11E-03	0.00E+00	1.11E-03
	0.1	1.605	2.805	24.884	46.3	0	4.88E-03	0.00E+00	4.88E-03
3	0.125	1.74	2.741	26.977	43.1	40.5	4.86E-03	5.17E-03	5.01E-03
4	0.25	2.171	2.538	33.659	20.8	17.5	9.37E-03	1.12E-02	1.02E-02
5	0.5	2.5472	2.3596	39.491	49	0	1.03E-03	0.00E+00	1.03E-03
6	1	3.0011	2.1447	46.529	6	9.5	5.07E-02	3.20E-02	3.92E-02
7	2	3.468	1.9238	53.767	3.8	6.2	7.31E-02	4.42E-02	5.51E-02
8	4	3.9508	1.6953	61.253	3.3	4.4	7.58E-02	5.58E-02	6.43E-02
9	1	3.9388	1.701	61.067	0	0	7.02E+00	0.00E+00	7.02E+00
10	0.25	3.9238	1.7081	60.834	0.1	0.1	3.60E+00	4.23E+00	3.89E+00

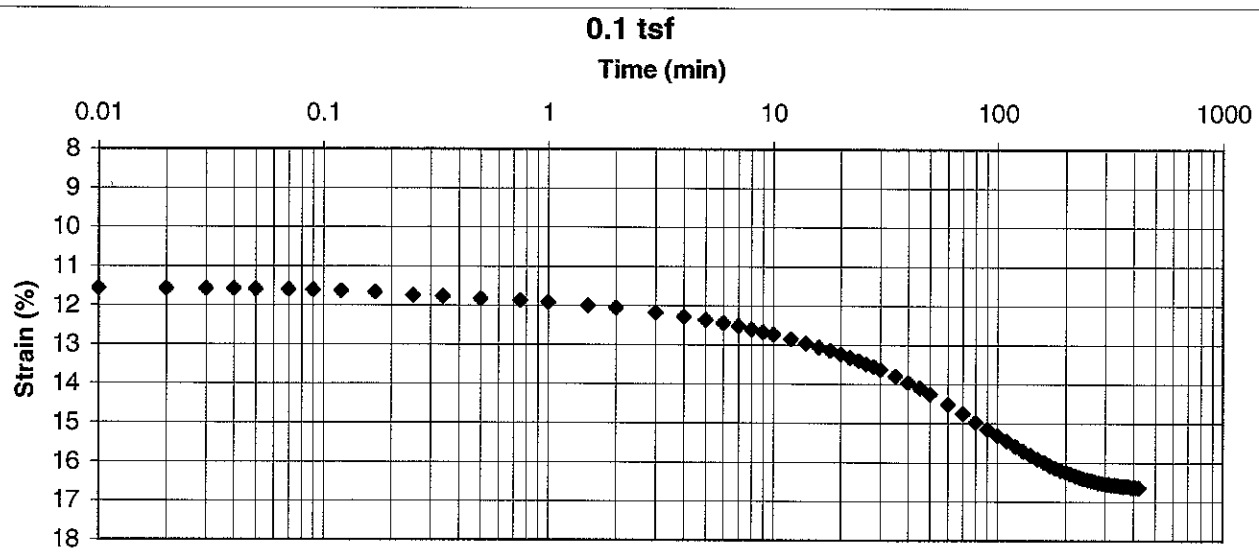
CONSOLIDATION TEST DATA
TIME CURVES

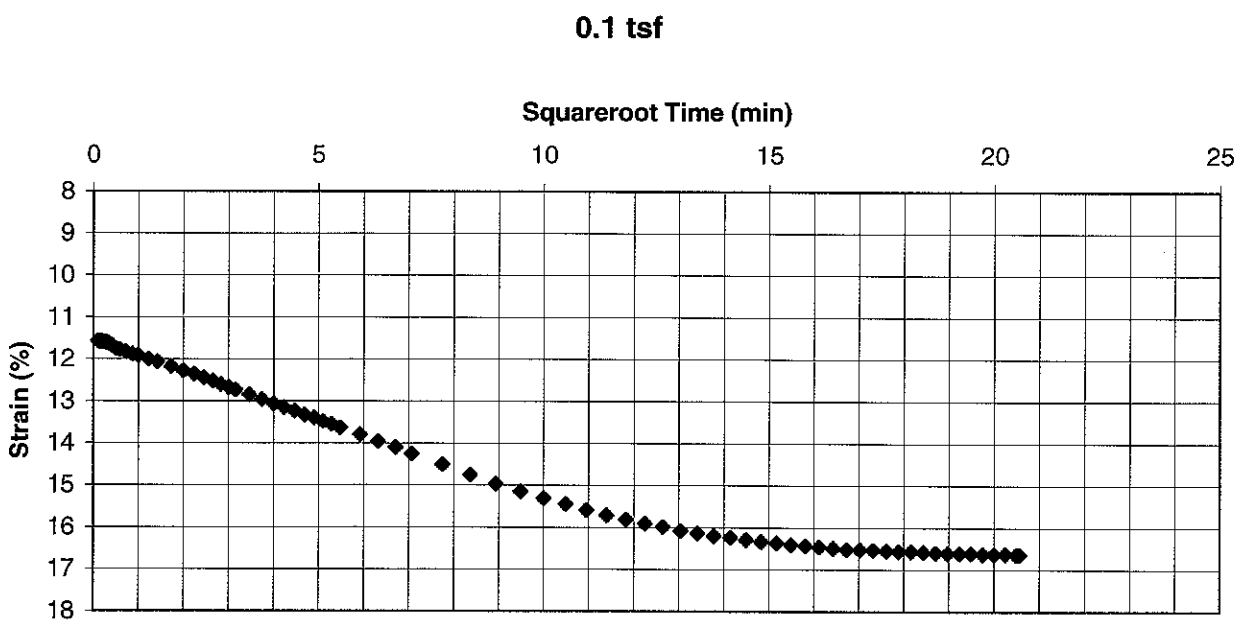


GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA

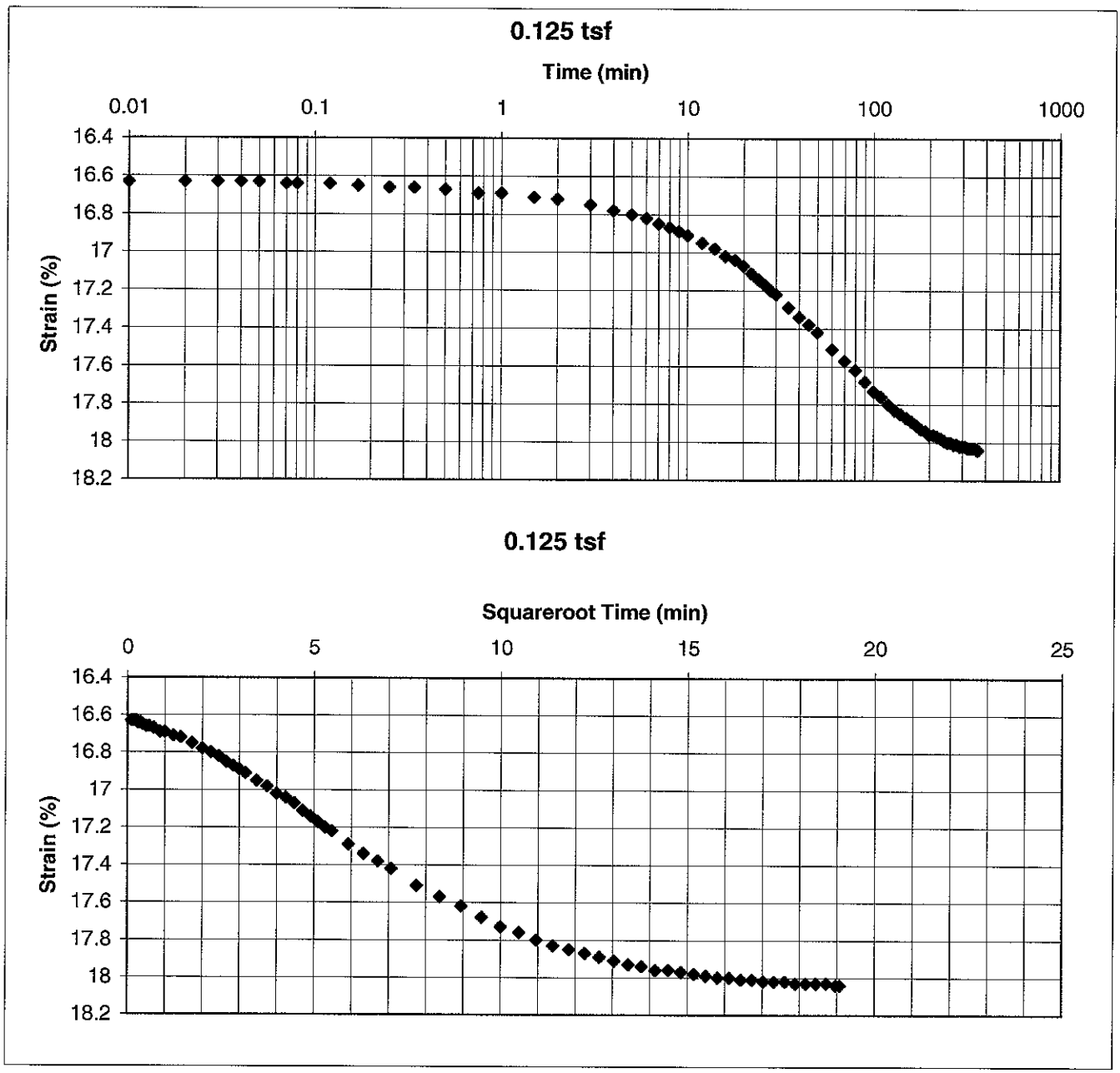
TIME CURVES





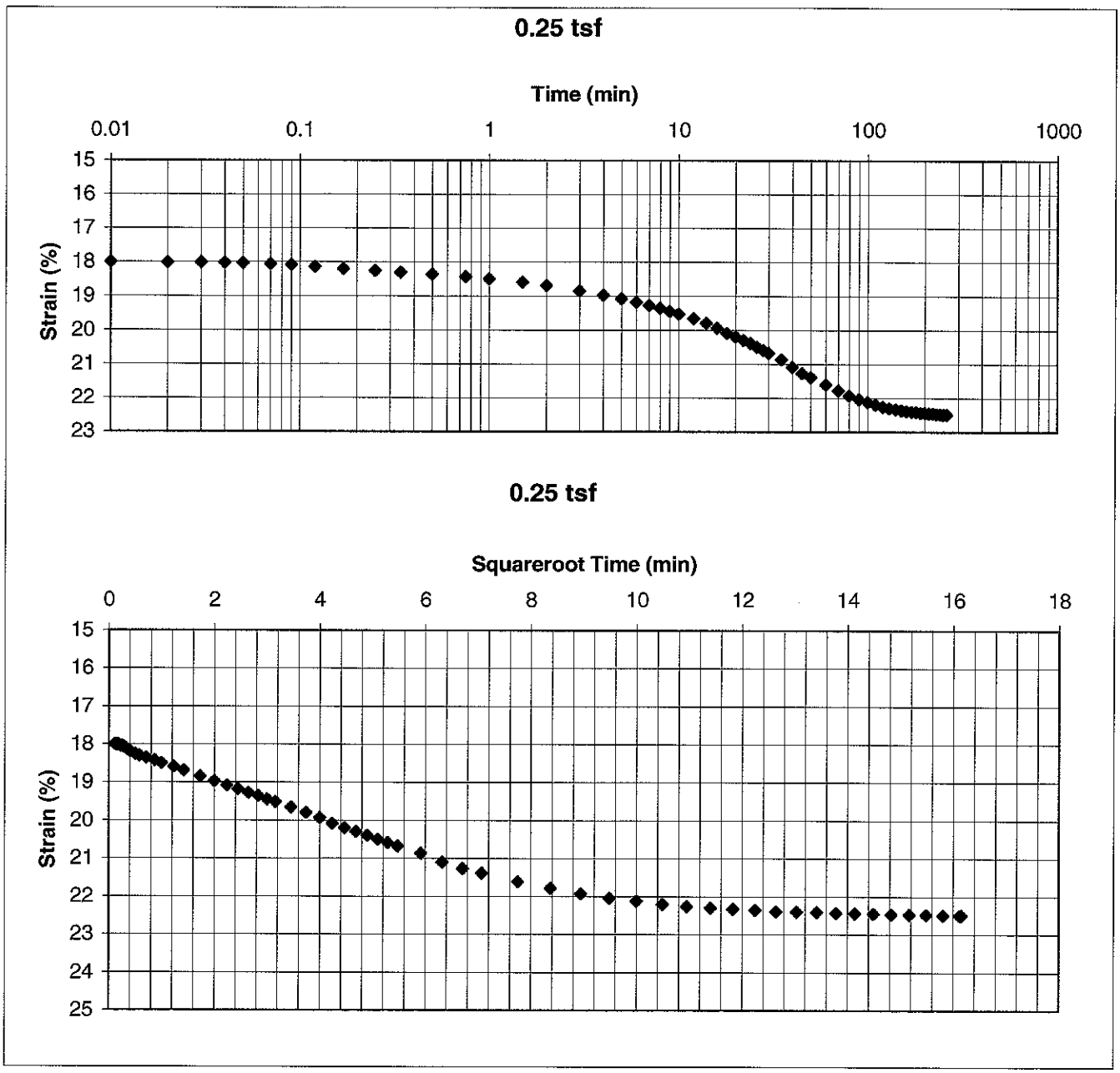
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



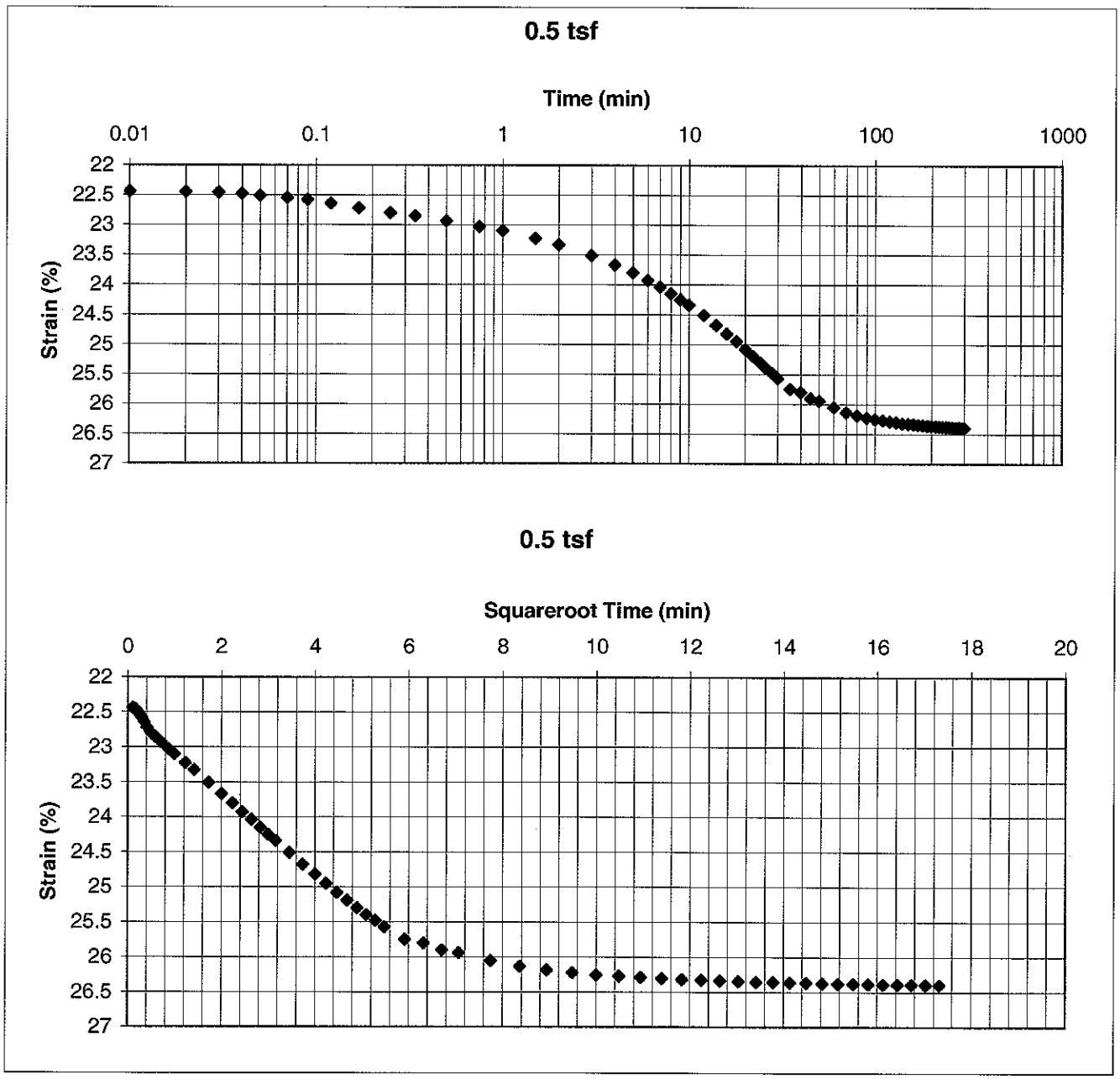
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

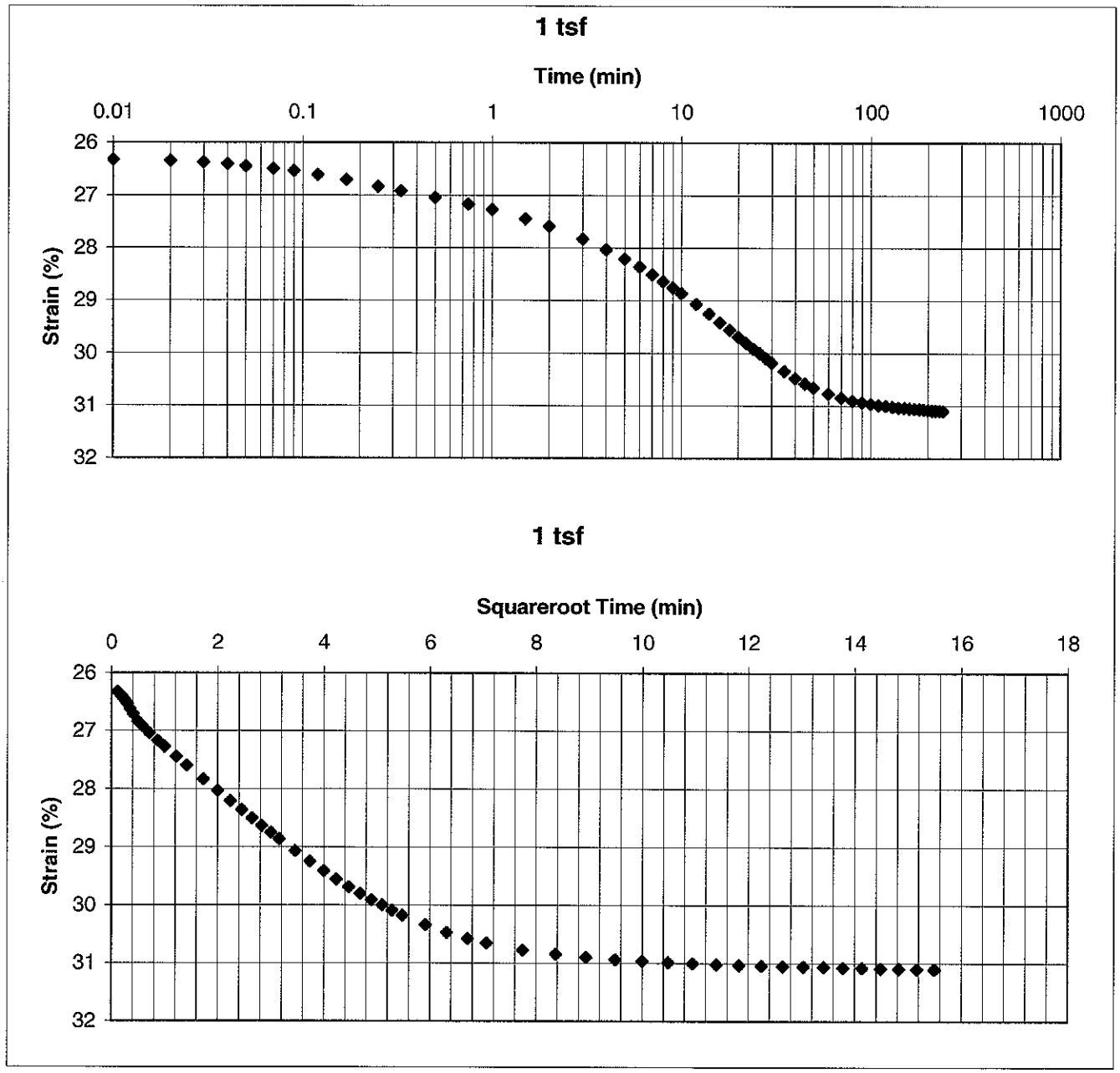
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

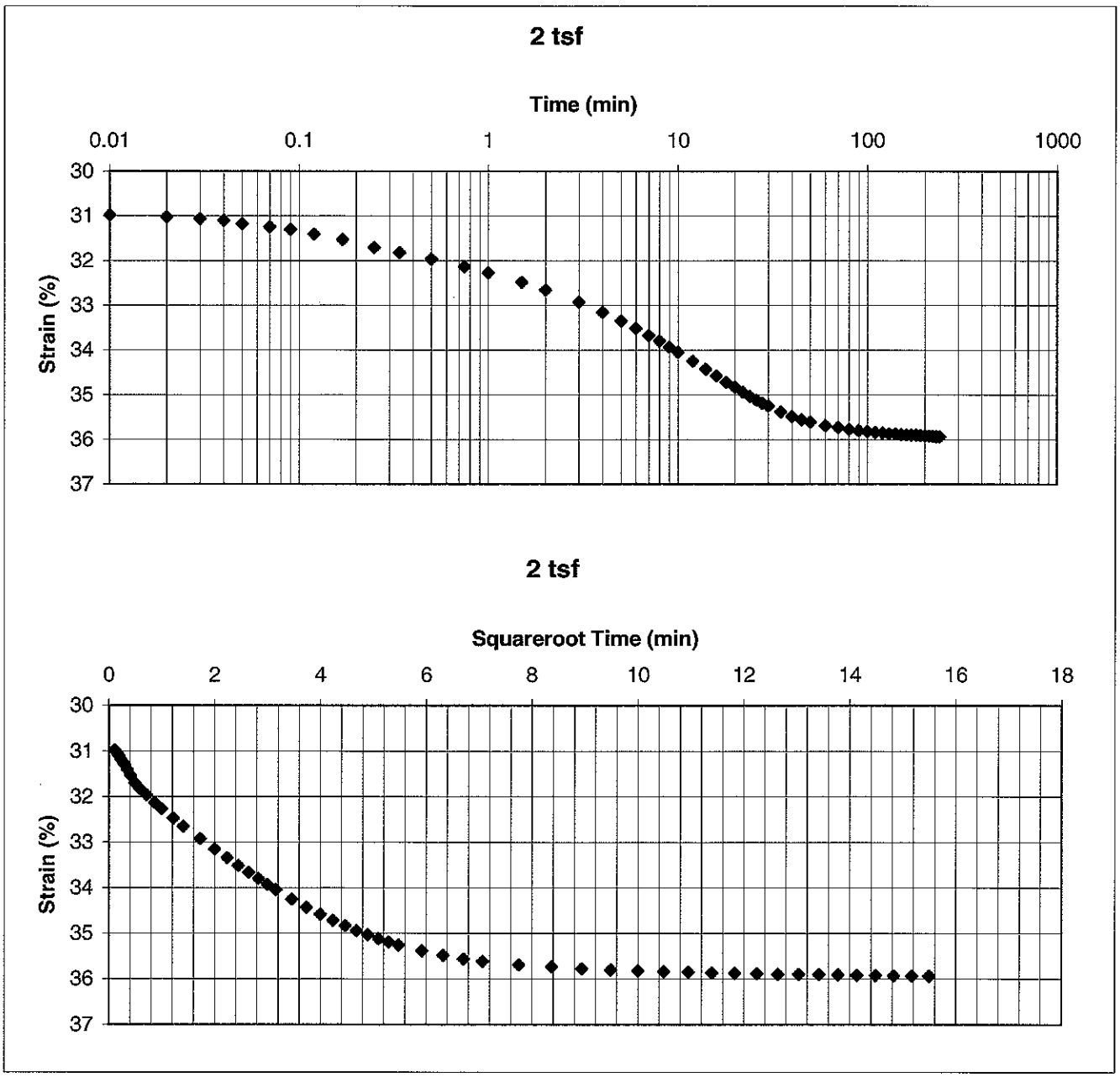
CONSOLIDATION TEST DATA

TIME CURVES



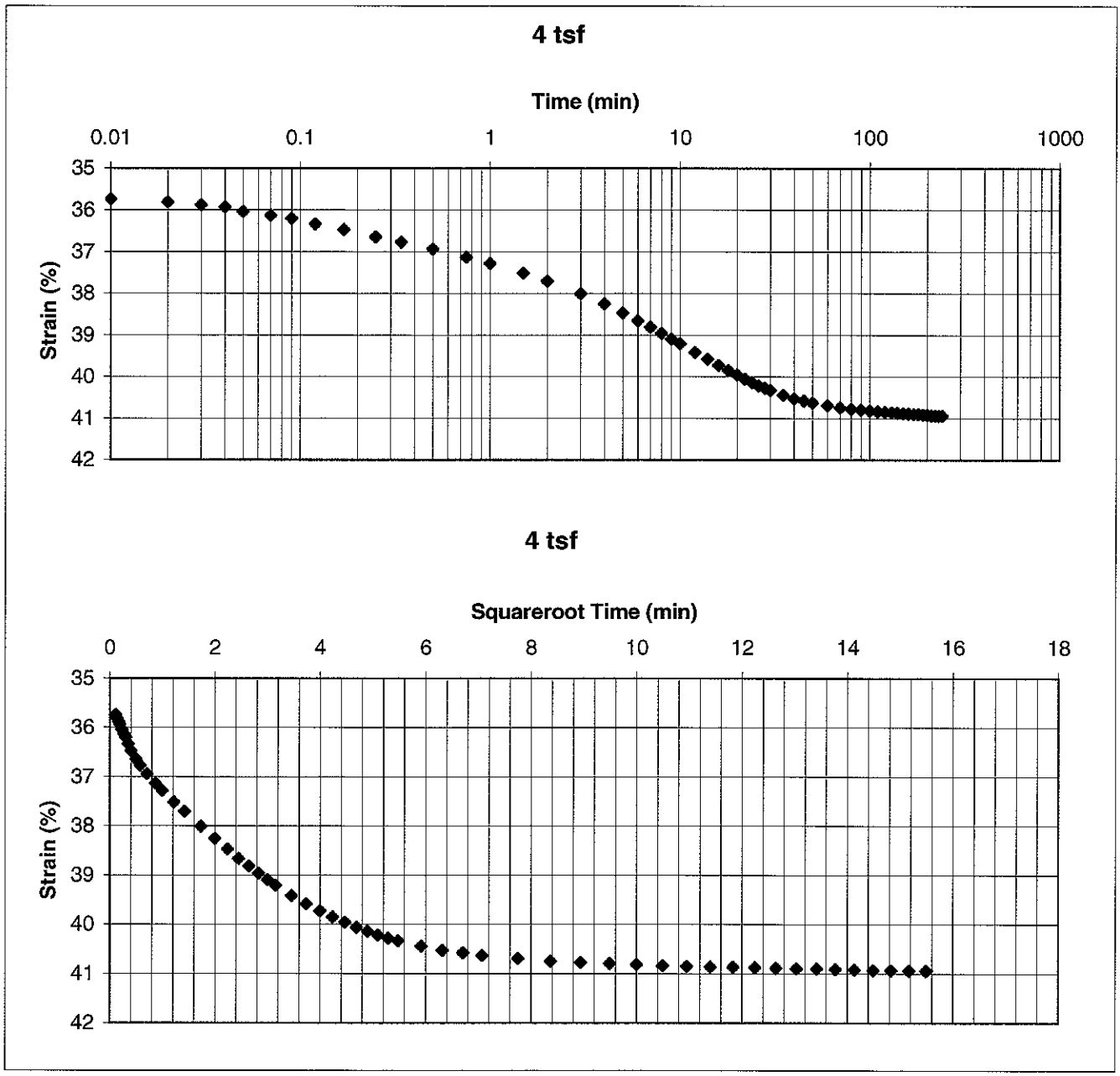
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



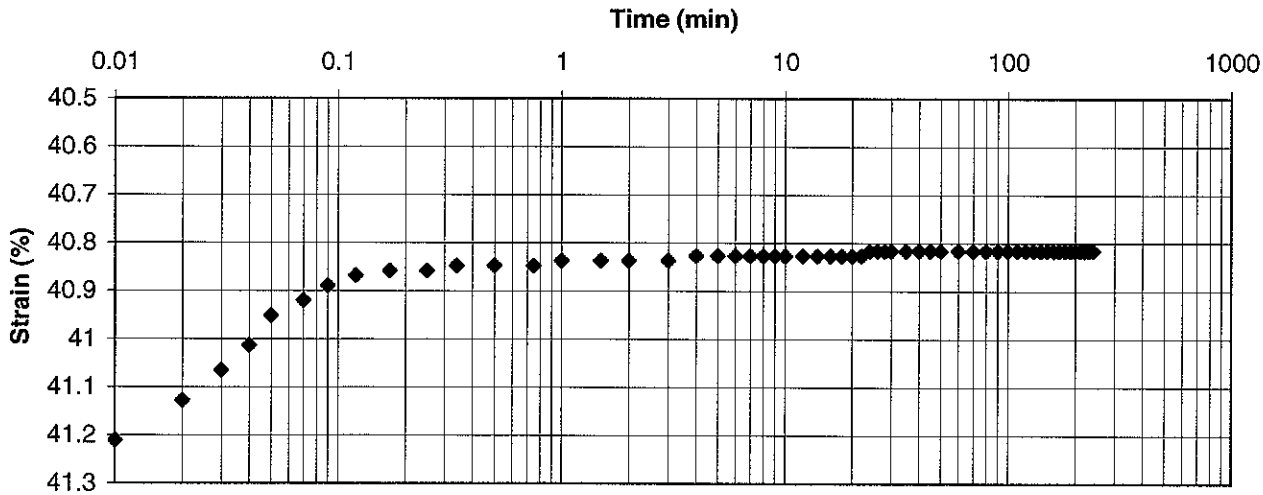
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

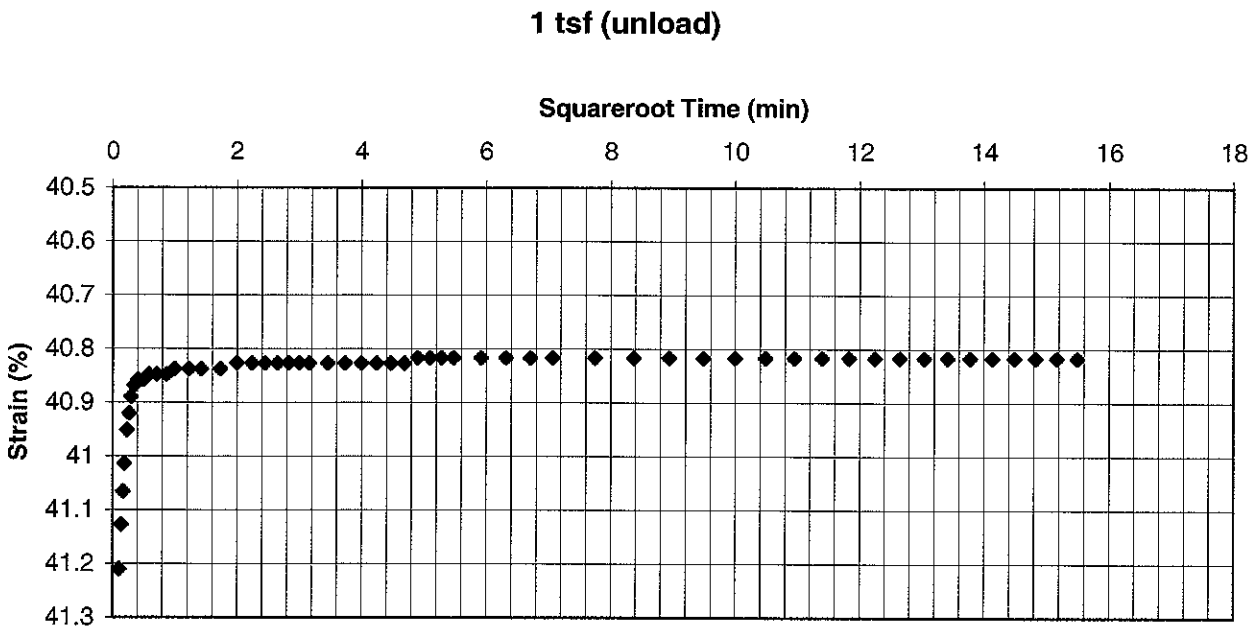
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

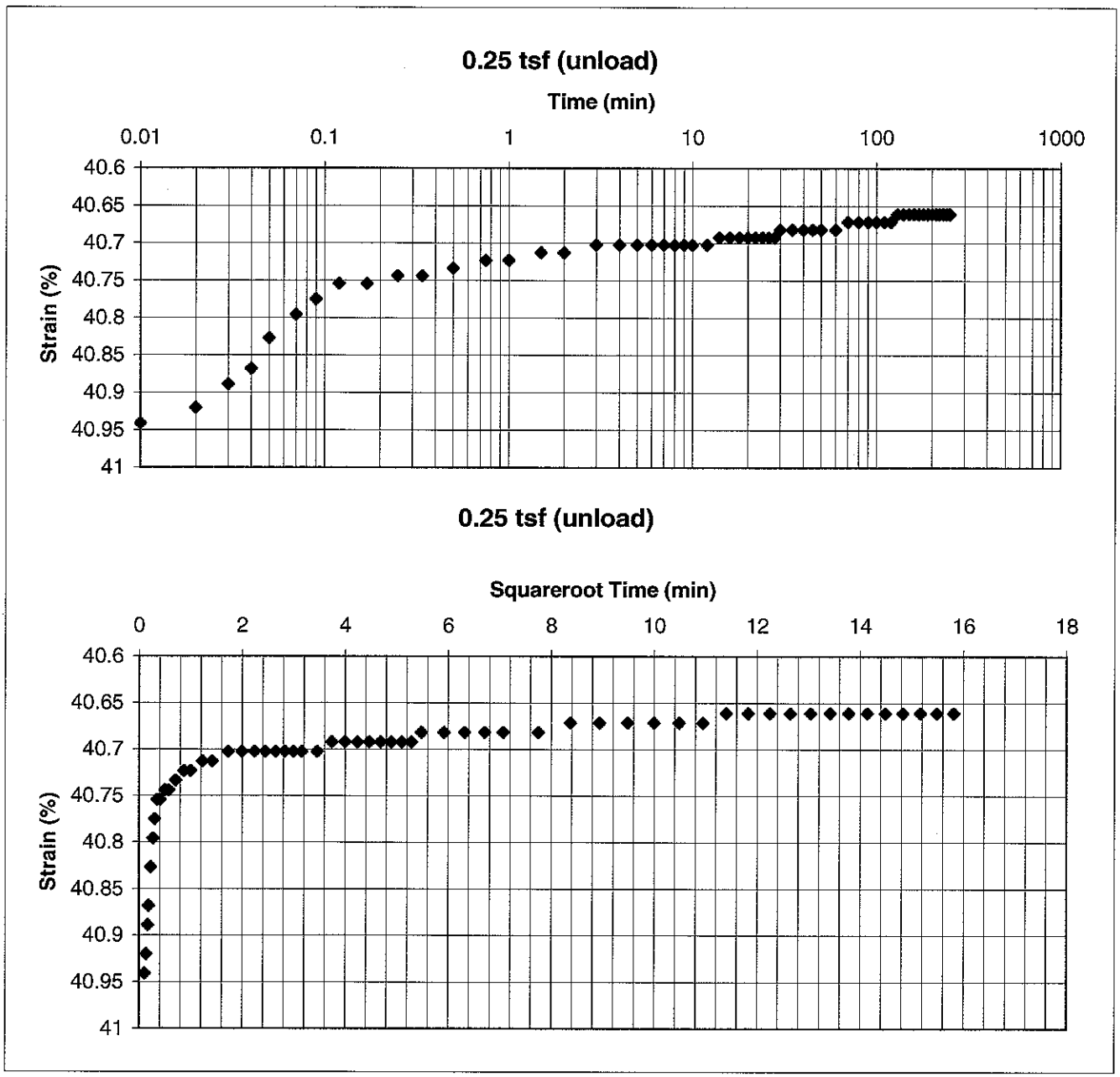
CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10114	Test Date:	3/10/2007	Depth:	---
	Test No.: CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



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Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	10114	Test Date:	3/10/2007	Depth:	---
Test No.:	CST 4 (LC-2)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, yellow silt					
Remarks:					

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
02/22/07	9:02 AM	0	0.00	85.50	85.50		
	9:05 AM	3	0.05		84.50		
	9:10 AM	8	0.13		82.25		
	9:15 AM	13	0.22		79.60		
	9:20 AM	18	0.30		77.00		
	9:25 AM	23	0.38		74.50		
	9:40 AM	38	0.63		69.50		
	9:45 AM	43	0.72		67.60		
	9:50 AM	48	0.80		65.75		
	9:58 AM	56	0.93		64.60		
	10:00 AM	58	0.97		63.25		
	10:10 AM	68	1.13	85.00	60.50		
	10:15 AM	73	1.22		59.25		
	10:20 AM	78	1.30		58.00		
	10:25 AM	83	1.38		56.75		
	10:30 AM	88	1.47		55.50		
	10:35 AM	93	1.55		54.25		
	10:40 AM	98	1.63		53.10		
	10:45 AM	103	1.72		51.90		
	10:50 AM	108	1.80		50.75		
	10:55 AM	113	1.88		49.40		
	11:00 AM	118	1.97		48.50		
	11:05 AM	123	2.05		47.50		
	11:10 AM	128	2.13	84.40	46.25		
	11:15 AM	133	2.22		45.25		
	11:20 AM	138	2.30		44.30		
	11:25 AM	143	2.38		43.40		
	11:30 AM	148	2.47		42.40		
	11:35 AM	153	2.55		41.60		
	11:45 AM	163	2.72		39.80		
	11:50 AM	168	2.80		38.90		
	11:55 AM	173	2.88		38.00		
	12:00 PM	178	2.97		37.40		
	12:05 PM	183	3.05		36.50		
	12:20 PM	198	3.30		64.50		
	12:25 PM	203	3.38		33.80		
	12:35 PM	213	3.55		32.40		
	12:45 PM	223	3.72		31.25		
	12:55 PM	233	3.88		30.25		
	1:15 PM	253	4.22	82.90	29.00		
	3:00 PM	358	5.97		26.25		
	3:20 PM	378	6.30	81.75	25.90		
	3:50 PM	408	6.80		25.60		
	4:20 PM	438	7.30		25.25		
02/23/07	9:05 AM	1443	24.05		18.90		

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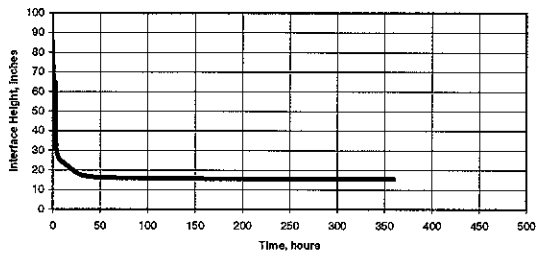
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
	12:47 PM	1665	27.75		17.90		
	3:00 PM	1798	29.97		17.40		
	4:10 PM	1868	31.13		17.25		
	5:15 PM	1933	32.22		17.10		
	6:25 PM	2003	33.38		17.00		
	7:25 PM	2063	34.38		16.90		
02/24/07	9:05 AM	2883	48.05		16.20		
	9:30 AM	2908	48.47	78.90	16.20		
	1:00 PM	3118	51.97		16.10		
02/26/07	9:02 AM	5760	96.00	77.20	15.80		
03/02/07	9:02 AM	11520	192.00	75.70	15.50		
03/09/07	9:02 AM	21600	360.00	74.00	15.40		



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Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	---	---	---										
Tare No.	---	---	---										
Wet Sample + Tare Wt, g	165.95	174.27	195.02										
Dried Sample + Tare Wt, g	109.22	109.38	122.98										
Tare Wt, g	102.64	101.52	114.11										
Water Wt, g	56.73	64.89	72.04										
Dried Sample Wt, g	6.58	7.86	8.87										
Salt Wt, g	0.034	0.039	0.043										
Particulates Wt, g	6.546	7.821	8.827										
Particulates Conc. (g/L)	110.3	115.0	116.8										

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	98A	99									
Wet Sample + Tare Wt, g	---	81.26	69.85									
Dried Sample + Tare Wt, g	---	68.19	67.96									
Tare Wt, g	---	67.38	67.83									
Water Wt, g	---	13.07	1.89									
Dried Sample Wt, g	---	0.81	0.13									
Salt Wt, g	---	0.008	0.001									
Particulates Wt, g	---	0.802	0.129									
Particulates Conc. (g/L)	---	59.9	66.4									

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	101A	102	102A	104A								
Wet Sample + Tare Wt, g	106.75	110.00	116.18	119.04								
Dried Sample + Tare Wt, g	67.37	68.21	67.94	67.06								
Tare Wt, g	67.29	68.13	67.84	66.96								
Water Wt, g	39.38	41.79	48.24	51.98								
Dried Sample Wt, g	0.08	0.08	0.10	0.10								
Salt Wt, g	0.024	0.025	0.029	0.031								
Particulates Wt, g	0.056	0.055	0.071	0.069								
Particulates Conc. (g/L)	1.4	1.3	1.5	1.3								

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	103	103A	105	105A	106	107						
Wet Sample + Tare Wt, g	93.63	114.42	108.62	110.84	119.97	113.88						
Dried Sample + Tare Wt, g	67.62	68.23	66.21	67.63	67.31	66.37						
Tare Wt, g	67.58	68.15	66.14	67.55	67.21	66.29						
Water Wt, g	26.01	46.19	42.41	43.21	52.66	47.51						
Dried Sample Wt, g	0.04	0.08	0.07	0.08	0.10	0.08						
Salt Wt, g	0.016	0.028	0.025	0.026	0.032	0.029						
Particulates Wt, g	0.024	0.052	0.045	0.054	0.068	0.051						
Particulates Conc. (g/L)	0.9	1.1	1.0	1.3	1.3	1.1						

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	115	116	117	118	119	120	121	122	123			
Wet Sample + Tare Wt, g	109.64	110.54	112.84	114.05	113.13	111.05	122.54	111.90	109.66			
Dried Sample + Tare Wt, g	66.10	68.34	66.86	66.07	67.66	66.24	68.19	67.35	65.72			
Tare Wt, g	66.03	68.26	66.78	65.98	67.59	66.17	68.08	67.29	65.64			
Water Wt, g	43.54	42.20	45.98	47.98	45.47	44.81	54.35	44.55	43.94			
Dried Sample Wt, g	0.07	0.08	0.08	0.09	0.07	0.07	0.11	0.06	0.08			
Salt Wt, g	0.026	0.025	0.028	0.029	0.027	0.027	0.033	0.027	0.026			
Particulates Wt, g	0.044	0.055	0.052	0.061	0.043	0.043	0.077	0.033	0.054			
Particulates Conc. (g/L)	1.0	1.3	1.1	1.3	0.9	1.0	1.4	0.7	1.2			

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	49	52	55	57	59	61	62	63	64			
Wet Sample + Tare Wt, g	109.66	110.81	108.08	106.40	113.70	108.51	114.97	116.22	107.59			
Dried Sample + Tare Wt, g	67.58	67.74	67.30	67.67	67.86	68.06	67.55	67.60	67.34			
Tare Wt, g	67.49	67.67	67.23	67.61	67.79	68.00	67.47	67.51	67.27			
Water Wt, g	42.08	43.07	40.78	38.73	45.84	40.45	47.42	48.62	40.25			
Dried Sample Wt, g	0.09	0.07	0.07	0.06	0.07	0.06	0.08	0.09	0.07			
Salt Wt, g	0.025	0.026	0.024	0.023	0.028	0.024	0.028	0.029	0.024			
Particulates Wt, g	0.065	0.044	0.046	0.037	0.042	0.036	0.052	0.061	0.046			
Particulates Conc. (g/L)	1.5	1.0	1.1	0.9	0.9	0.9	1.1	1.2	1.1			

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	194	195	196	197	198	199	200	201	202	203	204	
Wet Sample + Tare Wt, g	106.73	113.04	113.48	108.63	112.81	113.04	107.57	111.27	113.43	111.36	111.35	
Dried Sample + Tare Wt, g	68.21	68.15	67.56	67.92	67.91	66.88	67.62	66.71	67.40	67.21	67.47	
Tare Wt, g	68.14	68.07	67.47	67.84	67.82	66.78	67.54	66.61	67.30	67.10	67.37	
Water Wt, g	38.52	44.89	45.92	40.71	44.90	46.16	39.95	44.56	46.03	44.15	43.88	
Dried Sample Wt, g	0.07	0.08	0.09	0.08	0.09	0.10	0.08	0.10	0.10	0.11	0.10	
Salt Wt, g	0.023	0.027	0.028	0.024	0.027	0.028	0.024	0.027	0.028	0.027	0.026	
Particulates Wt, g	0.047	0.053	0.062	0.056	0.063	0.072	0.056	0.073	0.072	0.083	0.074	
Particulates Conc. (g/L)	1.2	1.2	1.4	1.4	1.4	1.6	1.4	1.6	1.6	1.9	1.7	

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Test Start Date:	2/22/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	107	108	109	111	113	114	115	116	117	118	119	
Wet Sample + Tare Wt, g	101.65	111.91	111.53	105.14	107.74	117.64	108.73	107.27	112.52	111.66	115.20	
Dried Sample + Tare Wt, g	66.37	67.75	68.27	65.48	65.47	68.29	66.12	68.33	66.89	66.08	67.69	
Tare Wt, g	66.28	67.67	68.18	65.43	65.37	68.18	66.02	68.25	66.78	65.98	67.57	
Water Wt, g	35.28	44.16	43.26	39.66	42.27	49.35	42.61	38.94	45.63	45.58	47.51	
Dried Sample Wt, g	0.09	0.08	0.09	0.05	0.10	0.11	0.10	0.08	0.11	0.10	0.12	
Salt Wt, g	0.021	0.027	0.026	0.024	0.025	0.030	0.026	0.023	0.027	0.027	0.029	
Particulates Wt, g	0.069	0.053	0.064	0.026	0.075	0.080	0.074	0.057	0.083	0.073	0.091	
Particulates Conc. (g/L)	1.9	1.2	1.5	0.7	1.8	1.6	1.7	1.5	1.8	1.6	1.9	

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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	210	178	207	209	179	208	176	74	61	62	
Wet Sample + Tare Wt, g	---	111.56	113.91	114.93	116.23	119.24	121.48	122.22	130.69	120.43	122.42	
Dried Sample + Tare Wt, g	---	66.91	67.30	67.49	67.14	67.87	67.17	67.58	67.98	68.09	67.57	
Tare Wt, g	---	66.82	67.20	67.38	67.03	67.75	67.06	67.48	67.83	67.94	67.43	
Water Wt, g	---	44.65	46.61	47.44	49.09	51.37	54.31	54.64	62.71	52.34	54.85	
Dried Sample Wt, g	---	0.09	0.10	0.11	0.11	0.12	0.11	0.10	0.15	0.15	0.14	
Salt Wt, g	---	0.027	0.028	0.028	0.029	0.031	0.033	0.033	0.038	0.031	0.033	
Particulates Wt, g	---	0.063	0.072	0.082	0.081	0.089	0.077	0.067	0.112	0.119	0.107	
Particulates Conc. (g/L)	---	1.4	1.5	1.7	1.6	1.7	1.4	1.2	1.8	2.3	2.0	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	81	153	191	202	203	204	205	206	48	46	
Wet Sample + Tare Wt, g	---	112.62	107.68	113.69	111.31	110.18	115.59	114.45	116.50	118.67	116.67	
Dried Sample + Tare Wt, g	---	67.67	68.02	66.92	67.38	67.19	67.45	66.62	67.57	68.09	66.11	
Tare Wt, g	---	67.57	67.92	66.83	67.31	67.10	67.36	66.52	67.49	67.99	65.97	
Water Wt, g	---	44.95	39.66	46.77	43.93	42.99	48.14	47.83	48.93	50.58	50.56	
Dried Sample Wt, g	---	0.10	0.10	0.09	0.07	0.09	0.09	0.10	0.08	0.10	0.14	
Salt Wt, g	---	0.027	0.024	0.028	0.026	0.026	0.029	0.029	0.029	0.030	0.030	
Particulates Wt, g	---	0.073	0.076	0.062	0.044	0.064	0.061	0.071	0.051	0.070	0.110	
Particulates Conc. (g/L)	---	1.6	1.9	1.3	1.0	1.5	1.3	1.5	1.0	1.4	2.2	

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Project Location:	Syracuse, NY		
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Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	188	189	190	193	194	195	196	197	198	201	
Wet Sample + Tare Wt, g	---	110.22	112.25	111.31	111.94	110.54	112.21	112.89	114.53	122.25	113.89	
Dried Sample + Tare Wt, g	---	66.84	67.27	67.94	66.92	68.22	68.13	67.55	67.94	67.93	66.70	
Tare Wt, g	---	66.75	67.19	67.85	66.86	68.14	68.06	67.47	67.83	67.82	66.60	
Water Wt, g	---	43.38	44.98	43.37	45.02	42.32	44.08	45.34	46.59	54.32	47.19	
Dried Sample Wt, g	---	0.09	0.08	0.09	0.06	0.08	0.07	0.08	0.11	0.11	0.10	
Salt Wt, g	---	0.026	0.027	0.026	0.027	0.025	0.026	0.027	0.028	0.033	0.028	
Particulates Wt, g	---	0.064	0.053	0.064	0.033	0.055	0.044	0.053	0.082	0.077	0.072	
Particulates Conc. (g/L)	---	1.5	1.2	1.5	0.7	1.3	1.0	1.2	1.8	1.4	1.5	

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	100	100A	101	99A								
Dry Particulates + Filter Paper Wt, g	0.0886	0.0957	0.0939	0.0932								
Filter Paper Wt, g	0.0747	0.0792	0.0852	0.0806								
Dry Particulates Wt, g	0.0139	0.0165	0.0087	0.0126								
Volume (mL)	124	116	101	108								
Particulates TSS Conc. (mg/L)	112.097	142.241	86.139	116.667								
Turbidity (NTU)	34	50	55	60								

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	108	109	110	111	112	113						
Dry Particulates + Filter Paper Wt, g	0.0797	0.0836	0.0869	0.0818	0.0833	0.0832						
Filter Paper Wt, g	0.0747	0.0777	0.0793	0.0730	0.0736	0.0730						
Dry Particulates Wt, g	0.0050	0.0059	0.0076	0.0088	0.0097	0.0102						
Volume (mL)	128	139	138	135	138	141						
Particulates TSS Conc. (mg/L)	39.062	42.446	55.072	65.185	70.290	72.340						
Turbidity (NTU)	20	24	26	33	33	38						

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Test Start Date:	2/22/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	161	162	163	164	165	166	167	168	169			
Dry Particulates + Filter Paper Wt, g	0.0755	0.0812	0.0770	0.0770	0.0850	0.0855	0.0911	0.0821	0.0824			
Filter Paper Wt, g	0.0736	0.0790	0.0735	0.0730	0.0798	0.0797	0.0848	0.0743	0.0744			
Dry Particulates Wt, g	0.0019	0.0022	0.0035	0.0040	0.0052	0.0058	0.0063	0.0078	0.0080			
Volume (mL)	132	136	145	140	142	141	143	149	133			
Particulates TSS Conc. (mg/L)	14.394	16.176	24.138	28.571	36.620	41.135	44.056	52.349	60.150			
Turbidity (NTU)	9.1	12	12	17	17	19	19	19	33			

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	171	172	173	174	186	187	188	189	190			
Dry Particulates + Filter Paper Wt, g	0.0783	0.0856	0.0854	0.0842	0.0816	0.0791	0.0797	0.0752	0.0845			
Filter Paper Wt, g	0.0770	0.0835	0.0837	0.0822	0.0794	0.0769	0.0775	0.0731	0.0822			
Dry Particulates Wt, g	0.0013	0.0021	0.0017	0.002	0.0022	0.0022	0.0022	0.0021	0.0023			
Volume (mL)	133	139	138	136	134	143	140	132	123			
Particulates TSS Conc. (mg/L)	9.774	15.108	12.319	14.706	16.418	15.385	15.714	15.909	18.699			
Turbidity (NTU)	5.8	5.1	6.2	7.8	8.5	7.7	8.0	10	13			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	206	207	208	209	210	35	18	98	114	192	191	
Dry Particulates + Filter Paper Wt, g	0.0824	0.0802	0.0750	0.0872	0.0867	0.0804	0.0827	0.0767	0.0823	0.0977	0.0994	
Filter Paper Wt, g	0.0806	0.0784	0.0738	0.0856	0.0849	0.0785	0.0809	0.0745	0.0786	0.0833	0.0775	
Dry Particulates Wt, g	0.0018	0.0018	0.0012	0.0016	0.0018	0.0019	0.0018	0.0022	0.0037	0.0144	0.0219	
Volume (mL)	137	140	129	135	137	137	138	132	133	137	135	
Particulates TSS Conc. (mg/L)	13.139	12.857	9.302	11.852	13.139	13.869	13.043	16.667	27.820	105.109	162.222	
Turbidity (NTU)	7.3	5.4	5.0	5.6	5.2	5.1	5.6	7.0	15	65	120	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	120	121	122	123	151	152	153	154	155	156	157	
Dry Particulates + Filter Paper Wt, g	0.0843	0.0822	0.0842	0.0830	0.0825	0.0833	0.0836	0.0828	0.0837	0.0890	0.0959	
Filter Paper Wt, g	0.0816	0.0795	0.0818	0.0800	0.0797	0.0805	0.0803	0.0788	0.0786	0.0769	0.0767	
Dry Particulates Wt, g	0.0027	0.0027	0.0024	0.0030	0.0028	0.0028	0.0033	0.0040	0.0051	0.0121	0.0192	
Volume (mL)	132	135	137	136	138	138	135	144	138	134	142	
Particulates TSS Conc. (mg/L)	20.455	20.000	17.518	22.059	20.290	20.290	24.444	27.778	36.957	90.299	135.211	
Turbidity (NTU)	10	10	9.7	9.8	11	12	13	18	25	65	110	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	177	81	75	71	70	58	72	63	64	79	
Dry Particulates + Filter Paper Wt, g	---	0.0825	0.0830	0.0802	0.0818	0.0829	0.0832	0.0814	0.0854	0.0848	0.0894	
Filter Paper Wt, g	---	0.0801	0.0802	0.0772	0.0789	0.0804	0.0801	0.0790	0.0807	0.0790	0.0800	
Dry Particulates Wt, g	---	0.0024	0.0028	0.0030	0.0029	0.0025	0.0031	0.0024	0.0047	0.0058	0.0094	
Volume (mL)	---	139	140	138	148	138	139	137	139	140	140	
Particulates TSS Conc. (mg/L)	---	17.266	20.000	21.739	19.595	18.116	22.302	17.518	33.813	41.429	67.143	
Turbidity (NTU)	---	7.0	8.3	9.5	7.5	9.3	12	11	15	27	45	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	35	36	38	39	40	41	42	43	44	18	
Dry Particulates + Filter Paper Wt, g	---	0.0798	0.0833	0.0825	0.0822	0.0838	0.0822	0.0820	0.0824	0.0826	0.0853	
Filter Paper Wt, g	---	0.0780	0.0825	0.0807	0.0808	0.0826	0.0802	0.0804	0.0802	0.0814	0.0813	
Dry Particulates Wt, g	---	0.0018	0.0008	0.0018	0.0014	0.0012	0.0020	0.0016	0.0022	0.0012	0.0040	
Volume (mL)	---	137	138	143	136	143	144	136	138	135	139	
Particulates TSS Conc. (mg/L)	---	13.139	5.797	12.587	10.294	8.392	13.889	11.765	15.942	8.889	28.777	
Turbidity (NTU)	---	7.7	4.9	4.8	5.0	5.0	5.3	6.5	6.9	10	20	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10115	CST Test #:	5
Test Start Date:	2/22/2007	Tested By:	md
Test Start Time:	9:02	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	123	151	159	161	162	163	166	185	199	200	
Dry Particulates + Filter Paper Wt, g	---	0.0839	0.0795	0.0841	0.0785	0.0797	0.0834	0.0753	0.0759	0.0757	0.0886	
Filter Paper Wt, g	---	0.0817	0.0784	0.0827	0.0775	0.0784	0.0816	0.0734	0.0748	0.0731	0.0849	
Dry Particulates Wt, g	---	0.0022	0.0011	0.0014	0.0010	0.0013	0.0018	0.0019	0.0011	0.0026	0.0037	
Volume (mL)	---	135	141	142	135	134	141	141	144	145	142	
Particulates TSS Conc. (mg/L)	---	16.296	7.801	9.859	7.407	9.701	12.766	13.475	7.639	17.931	26.056	
Turbidity (NTU)	---	2.2	2.0	3.0	3.2	2.4	3.9	3.4	3.8	6.7	11	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10115		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50270		
Test Comment:	---				
Sample Description:	Moist, light gray silt with sand				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10115	---	Moist, light gray silt with sand	94.1

Notes: Temperature of Drying : 110° Celsius

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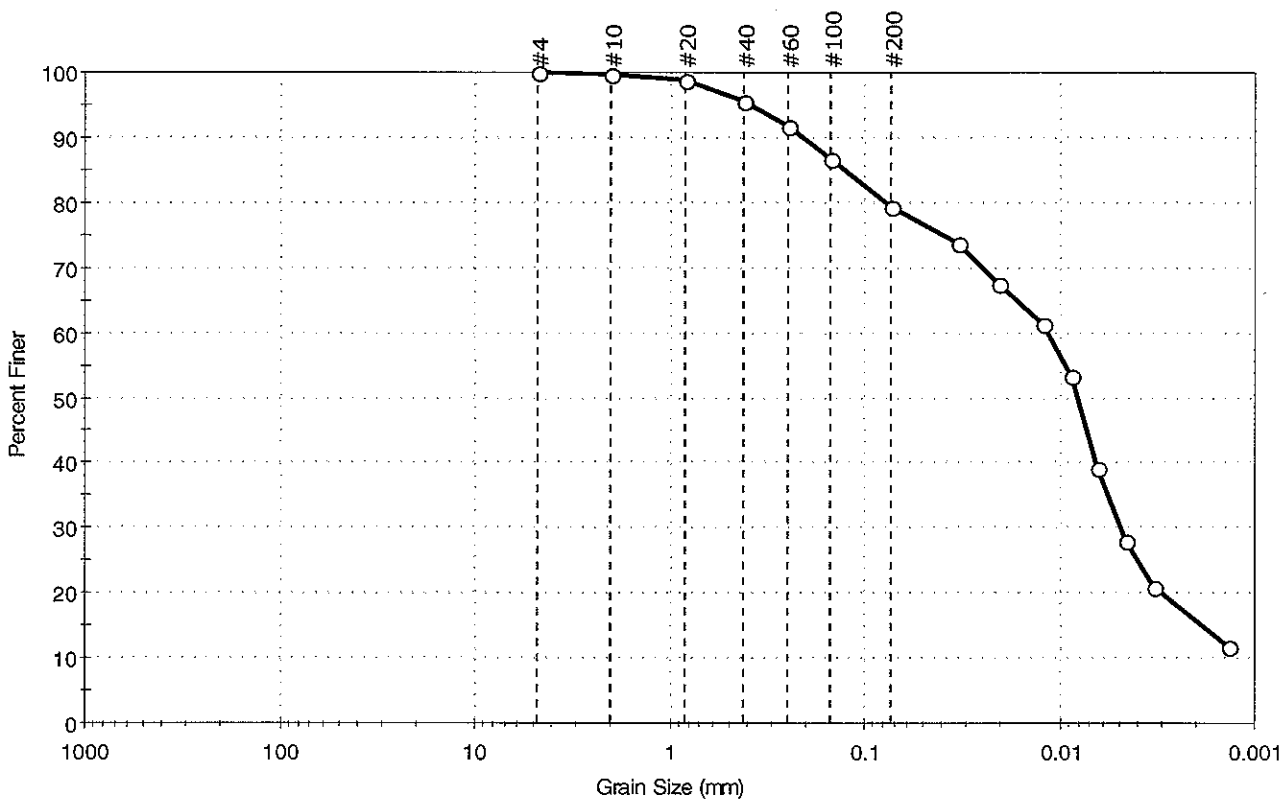
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10115		Test Date:	04/04/07	Checked By:	jdt
Depth : ---		Test Id:	109694		
Test Comment:	---				
Sample Description:	Moist, light gray silt with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	20.7	79.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	96		
#60	0.25	92		
#100	0.15	87		
#200	0.074	79		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0335	74		
---	0.0208	68		
---	0.0122	61		
---	0.0088	53		
---	0.0064	39		
---	0.0046	28		
---	0.0033	21		
---	0.0014	12		

Coefficients

D_{85} = 0.1279 mm D_{30} = 0.0049 mm
D_{60} = 0.0115 mm D_{15} = 0.0019 mm
D_{50} = 0.0081 mm D_{10} = 0.0012 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt with sand (MH)

AASHTO Clayey Soils (A-7-5 (28))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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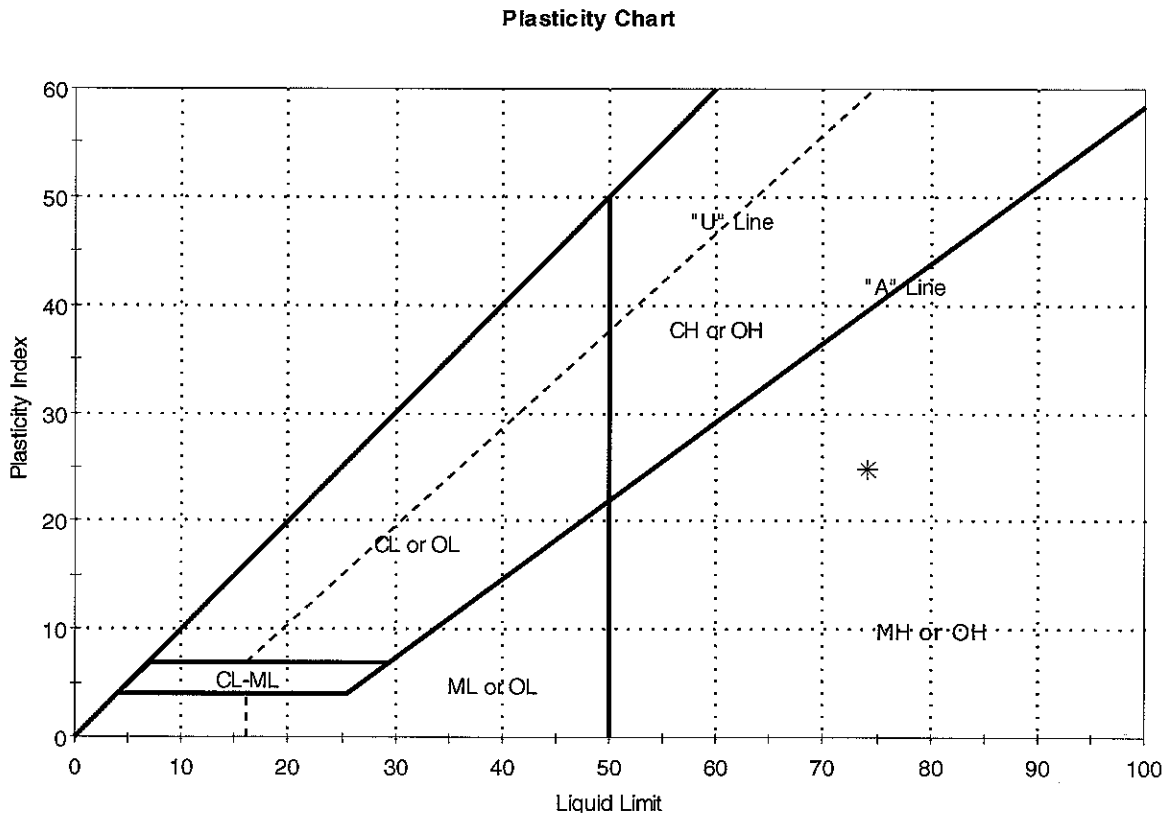
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-10115		Test Date:	04/20/07	Checked By:	jdt
Depth : ---		Test Id:	109711		
Test Comment:	---				
Sample Description:	Moist, light gray silt with sand				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10115	---	---	94	74	49	25	2	elastic silt with sand (MH)

Sample Prepared using the WET method
4% Retained on #40 Sieve
Dry Strength: MEDIUM
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-10115	Test Date:	04/06/07	Checked By:	jdt
Depth :	---	Test Id:	109745		
Test Comment:	---				
Sample Description:	Moist, light gray silt with sand				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10115	---	Moist, light gray silt with sand	2.58

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	03/16/07
Tested by:	md
Checked by:	jdt

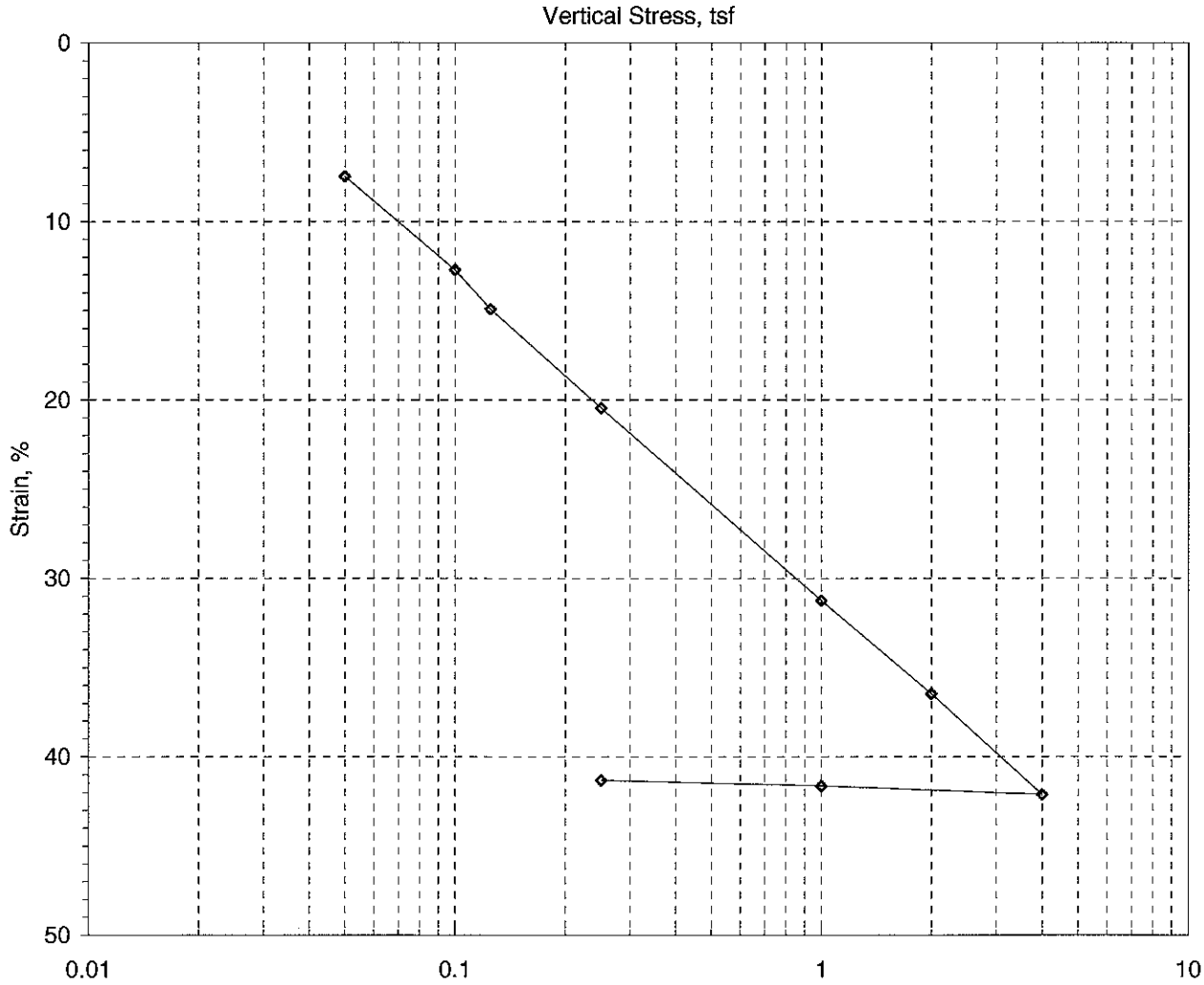
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10115	Moist, light gray silt with sand	0.33	0.43	0.30	0.30	0.34

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:		----		Water Content, %	177	79
Preconsolidation Pressure, psf:		---		Dry Unit Weight, pcf	31.1	53.1
Compression Index:		---		Saturation, %	99.2	100.0
Diameter:	11.0 in	Initial Height: 9.4 in		Void Ratio	4.17	2.04
LL: 74	PL: 49	PI: 25	GS: 2.58			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks: Unable to report data for 0.5 tsf load increment				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10115
Test No.:CST 5 (LC-3)

Location: Syracuse, NY
Tested By: md
Test Date: 03/13/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, light gray silt with sand
Remarks: System Q

Measured Specific Gravity: 2.58
Initial Void Ratio:
Final Void Ratio:

Liquid Limit: 74
Plastic Limit: 49
Plasticity Index: 25

Initial Height: 9.4 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		151	RING		unknown
Wt. Container + Wet Soil,	gm	136.09	35440	29480	214.46
Wt. Container + Dry Soil,	gm	92.4	23721	23721	123.46
Wt. Container, gm		67.65	16420	16420	8.09
Wt. Dry Soil, gm		24.75	7301.1	7301.1	115.37
Water Content, %		176.5	160.5	78.9	78.9
Void Ratio		---	4.17	2.04	---
Degree of Saturation, %		---	99.2	100.0	---
Dry Unit Weight, pcf		---	31.1	53.1	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10115
Test No.: CST 5 (LC-3)

Location: Syracuse, NY
Tested By: md
Test Date: 03/13/07
Sample Type: Column

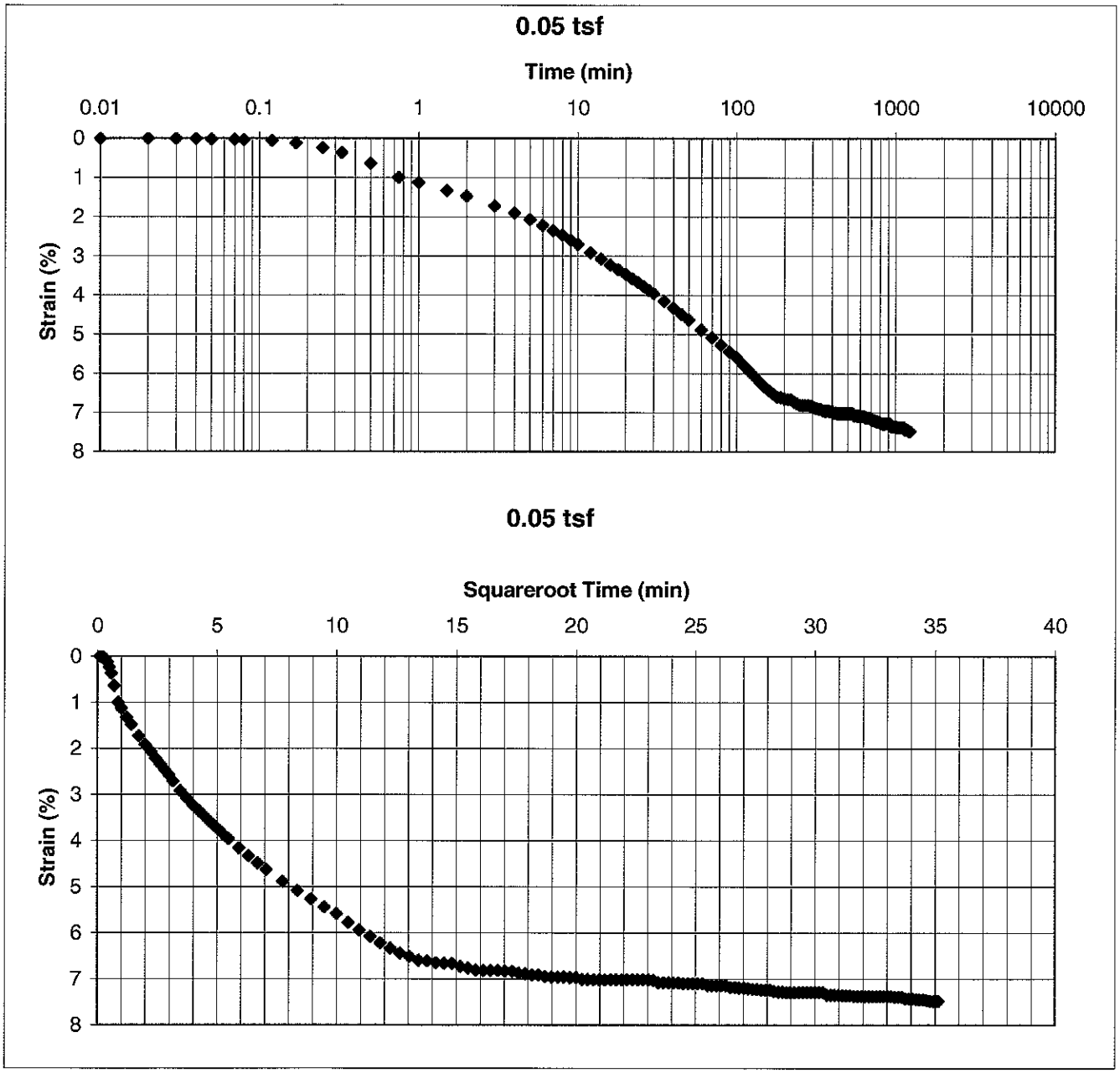
Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, light gray silt with sand
Remarks: System Q

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0.7033	3.786	7.482	15.6	0	1.72E-02	0.00E+00	1.72E-02
2	0.1	1.196	3.515	12.723	18.5	0	1.27E-02	0.00E+00	1.27E-02
3	0.125	1.402	3.401	14.915	41.6	0	5.19E-03	0.00E+00	5.19E-03
4	0.25	1.923	3.114	20.457	19.2	21.5	1.02E-02	9.15E-03	9.66E-03
6	1	2.9375	2.556	31.250	7	0	4.44E-02	0.00E+00	4.44E-02
7	2	3.4282	2.286	36.470	4.8	6.3	5.54E-02	4.27E-02	4.82E-02
8	4	3.9587	1.995	42.114	3.8	5.7	6.31E-02	4.19E-02	5.04E-02
9	1	3.9137	2.019	41.635	0	0	6.70E+00	5.85E+00	6.25E+00
10	0.25	3.8847	2.035	41.327	0.1	0.1	2.95E+00	4.10E+00	3.43E+00

CONSOLIDATION TEST DATA

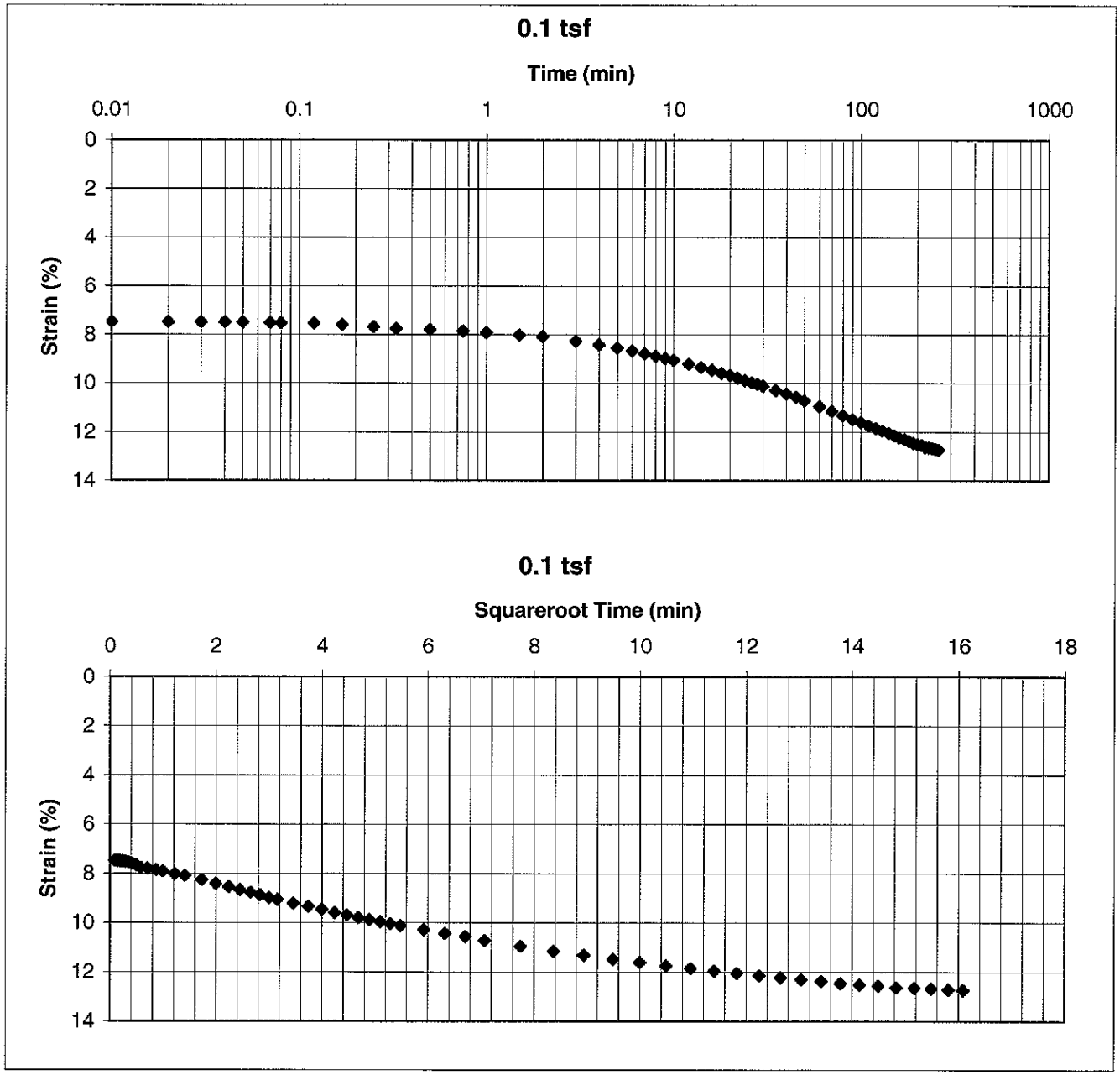
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

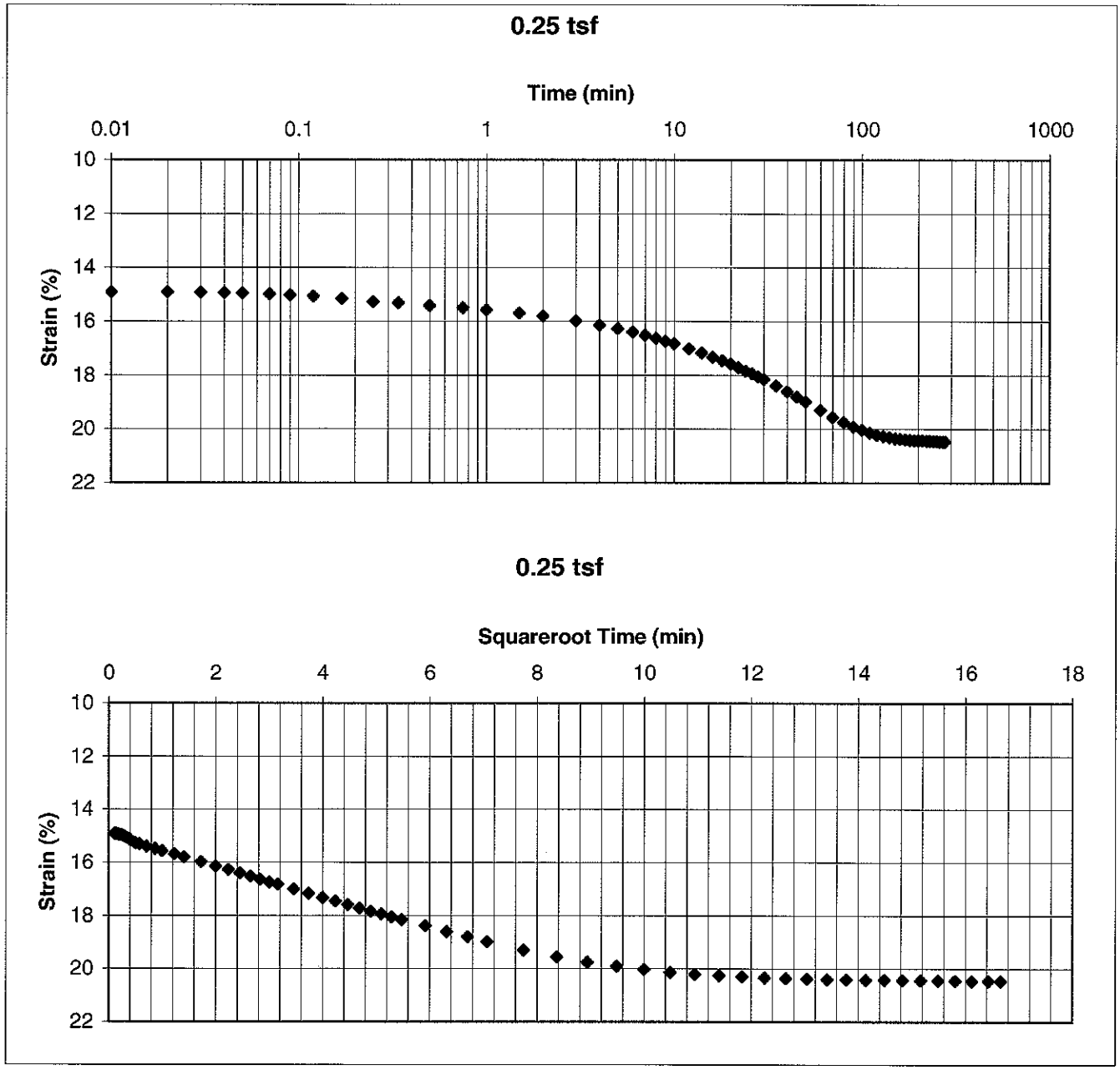
CONSOLIDATION TEST DATA

TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

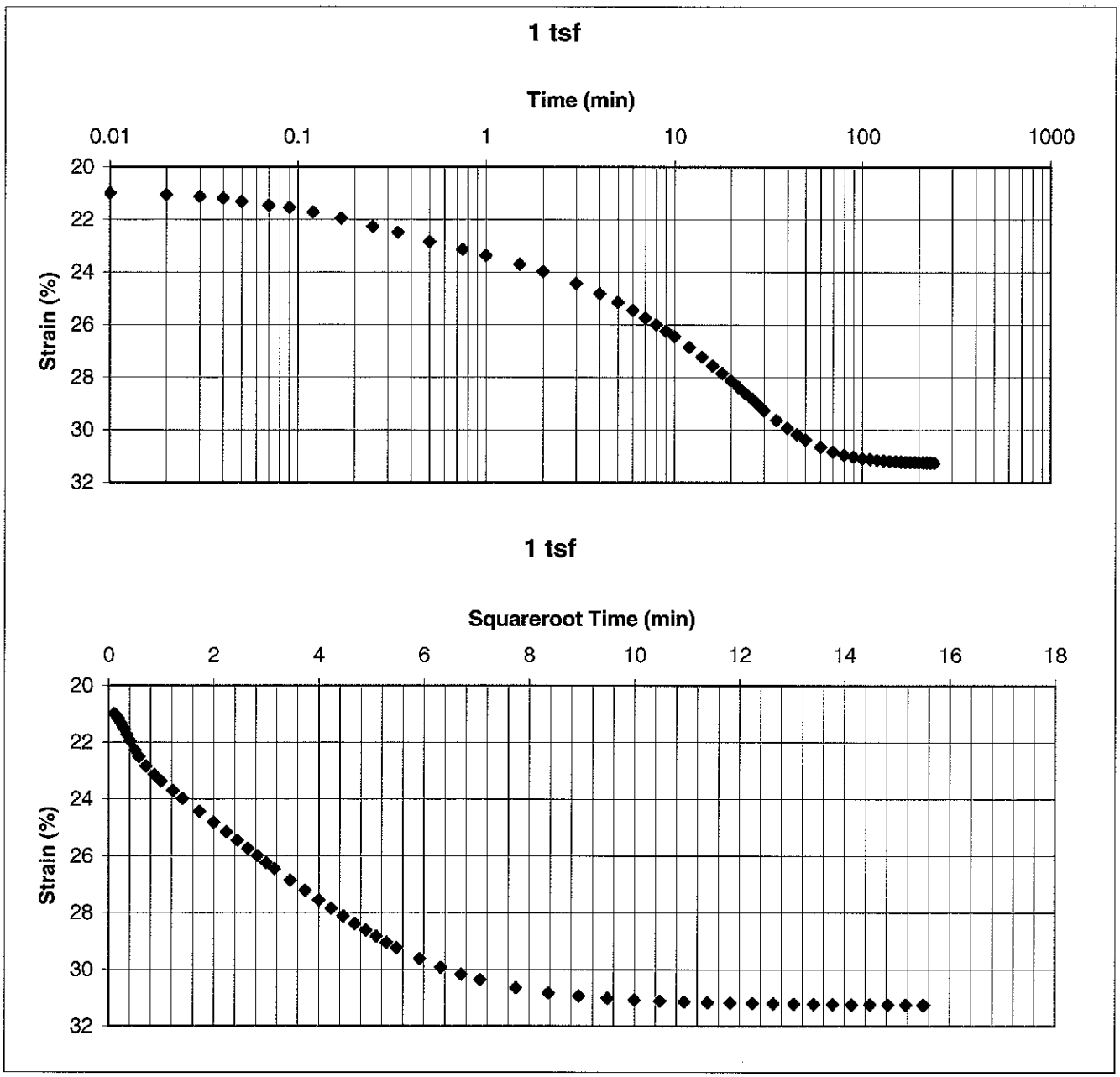
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

CONSOLIDATION TEST DATA

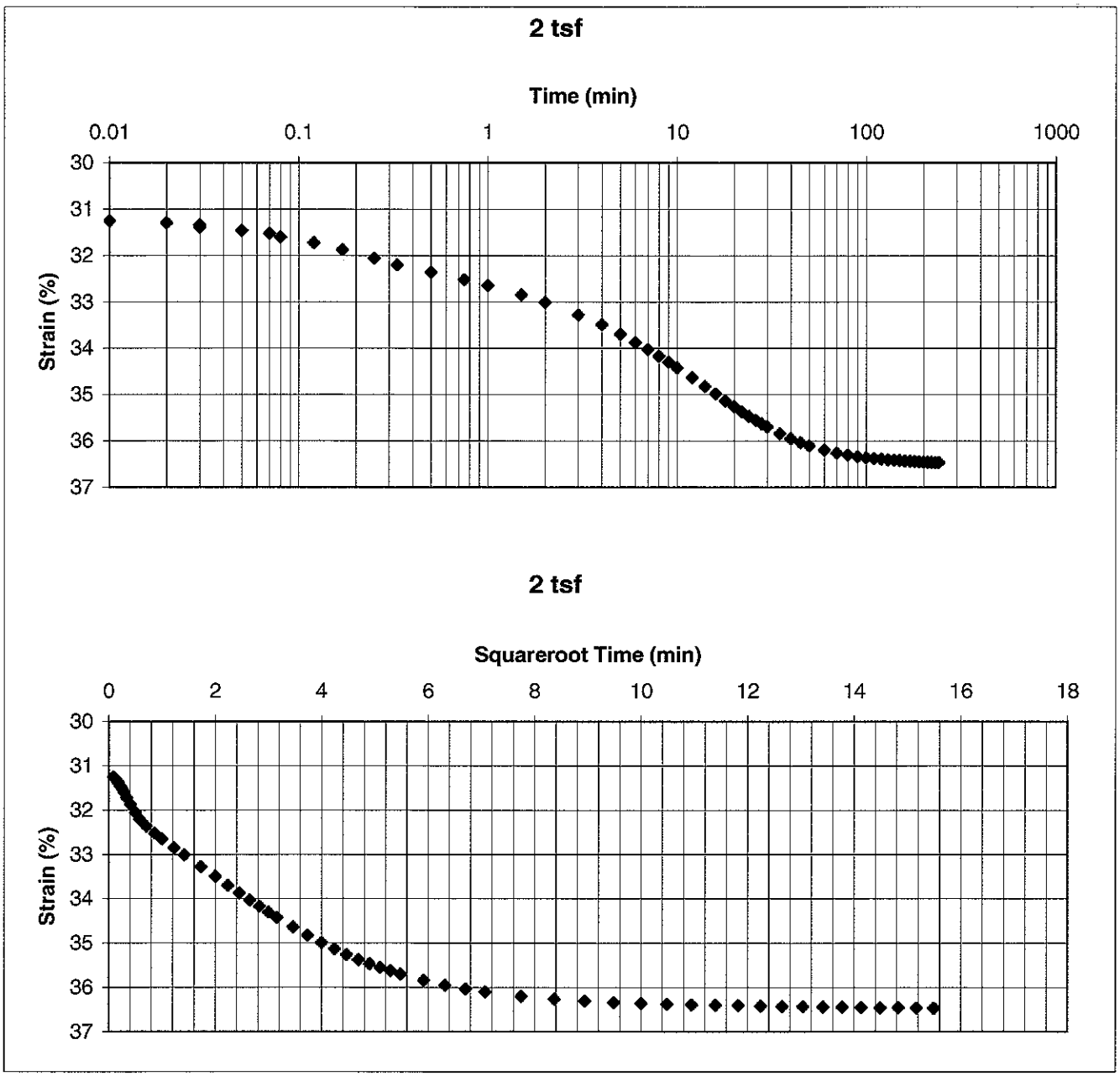
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

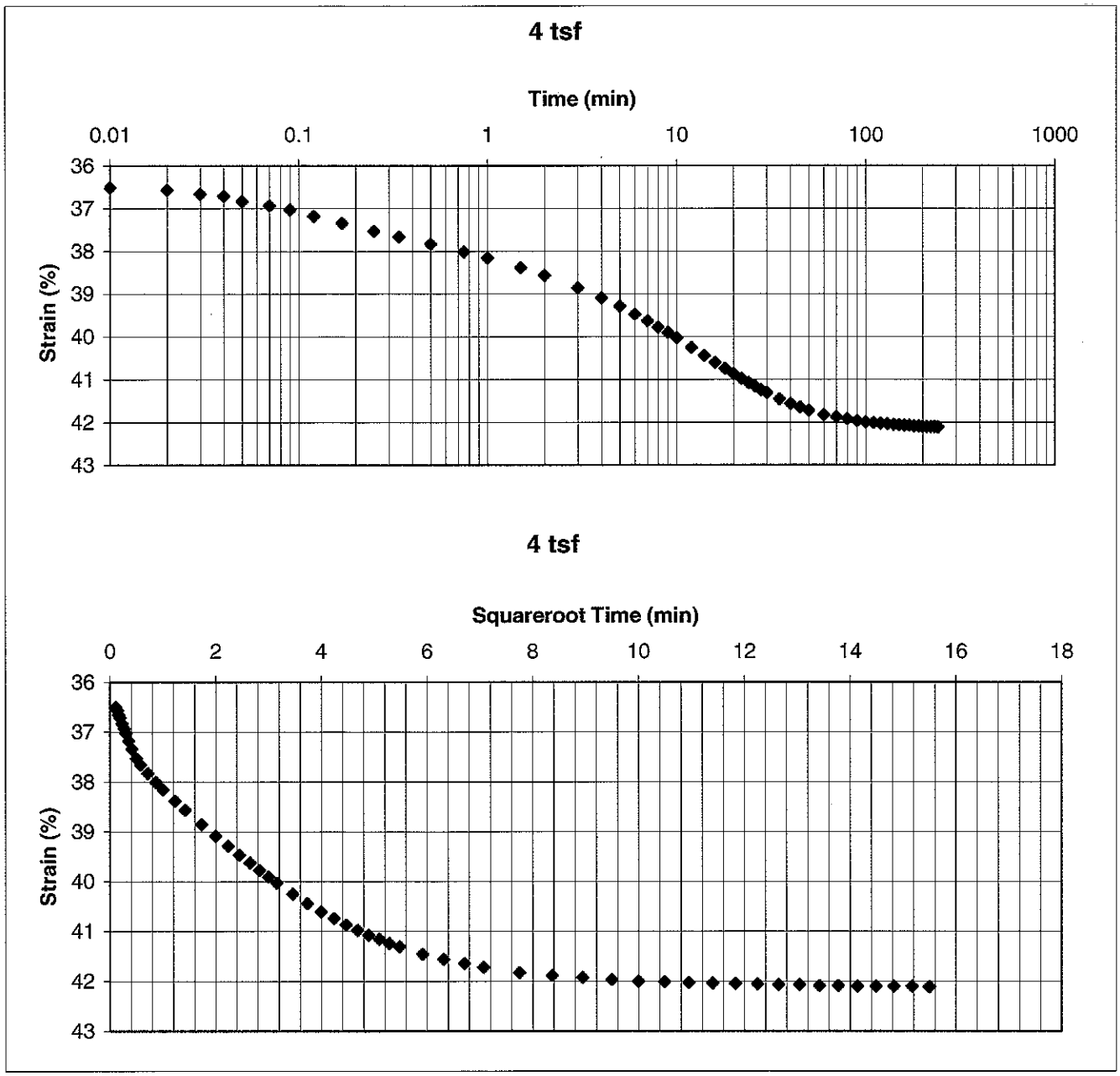
CONSOLIDATION TEST DATA

TIME CURVES



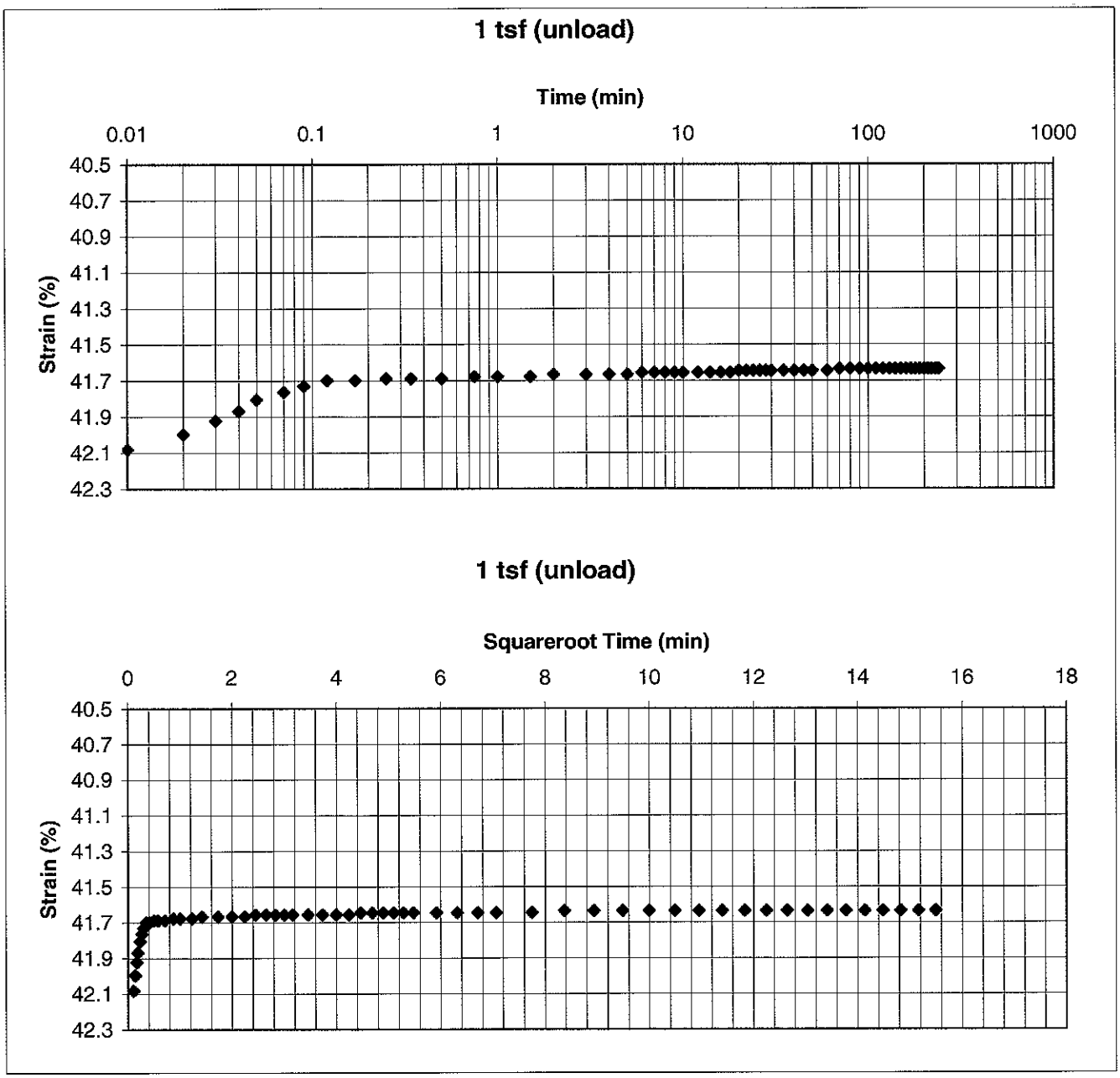
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



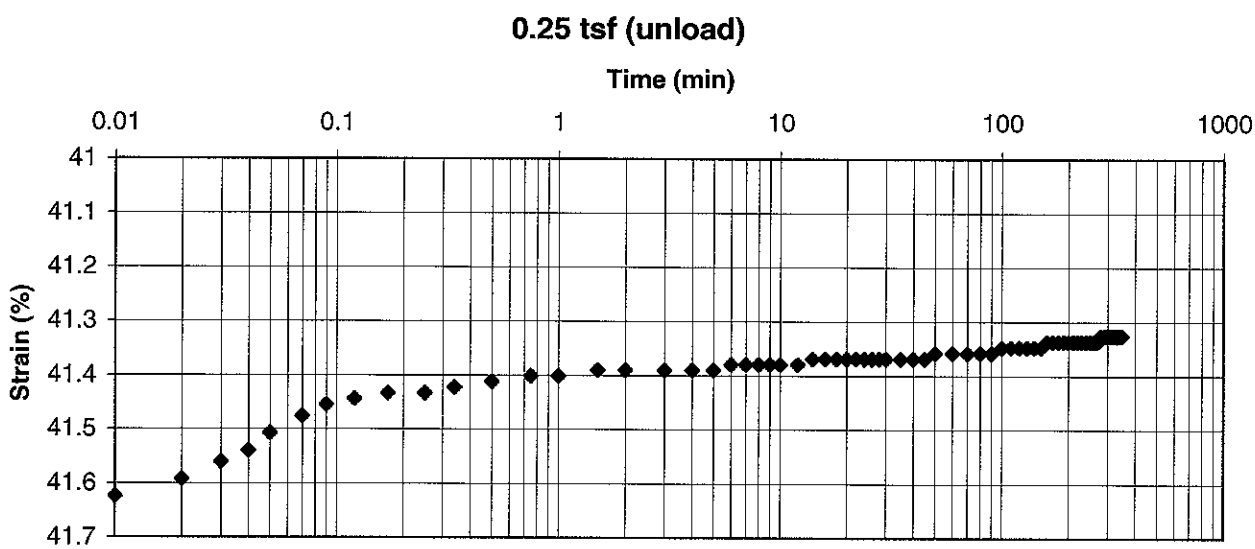
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

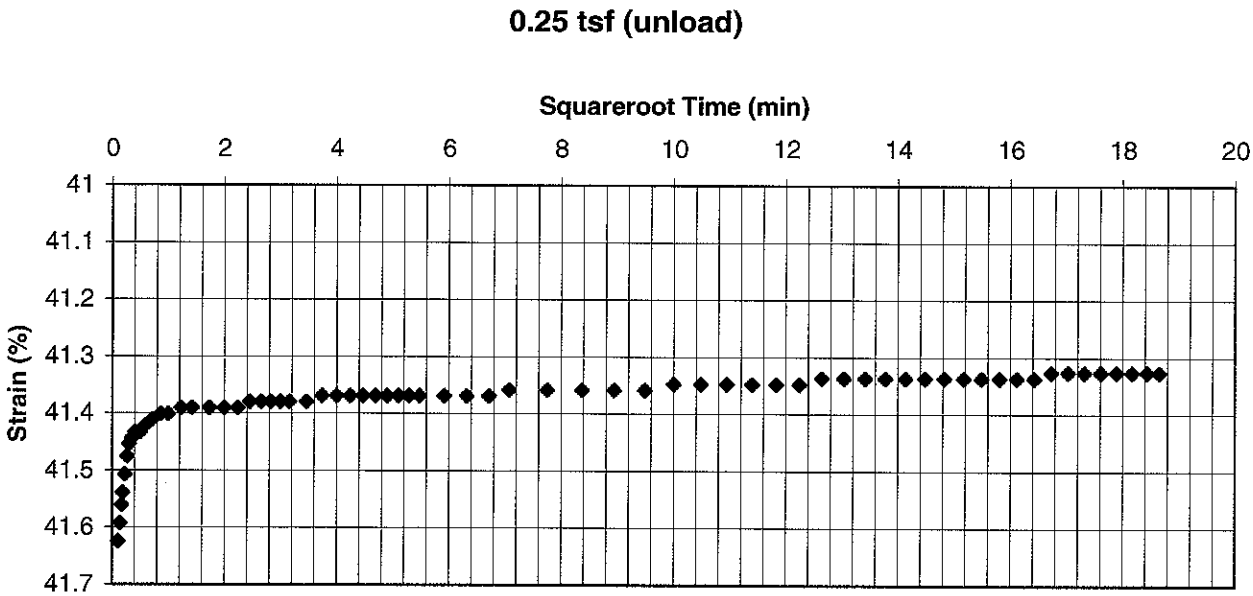
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





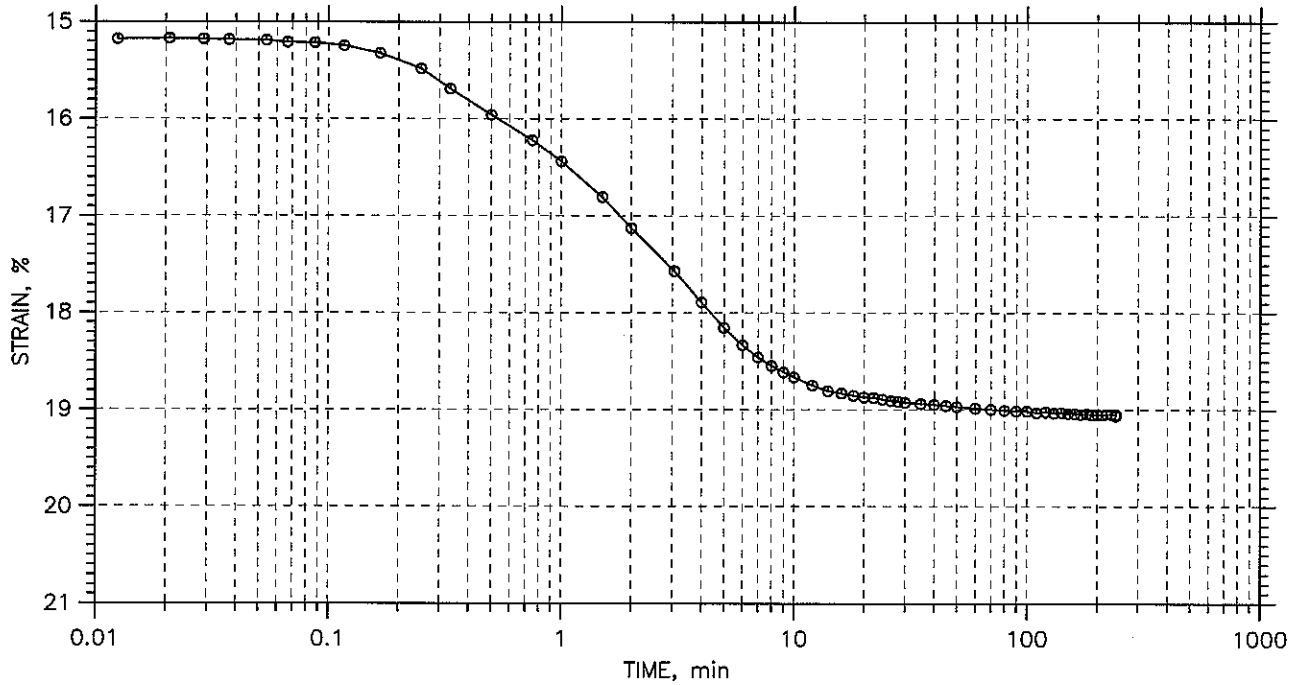
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10115	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 5 (LC-3)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, light gray silt with sand				
	Remarks:				

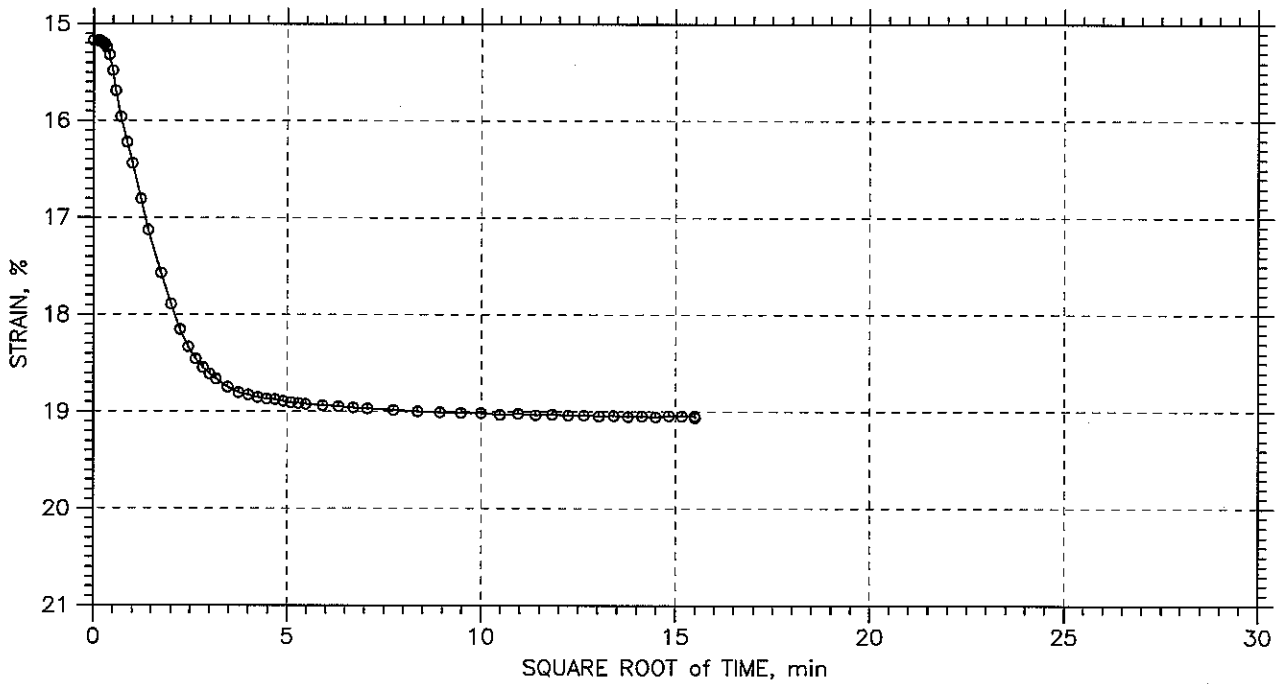
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

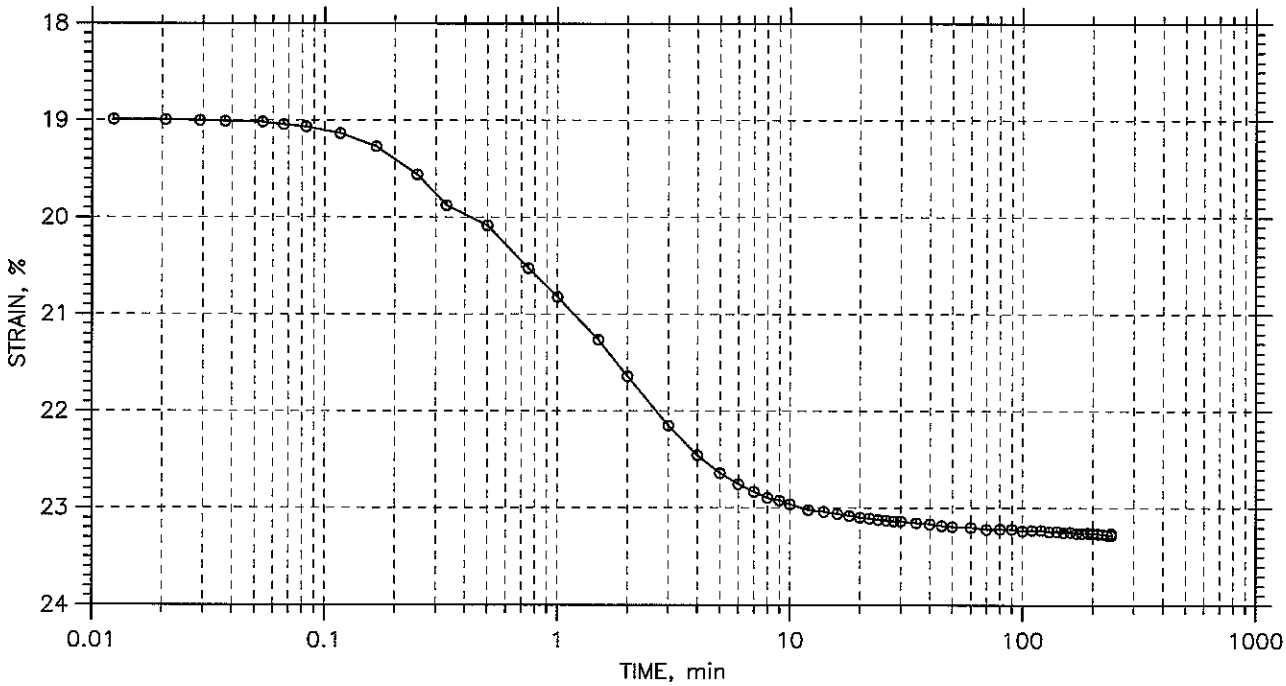
Fri, 04-MAY-2007 13:26:38

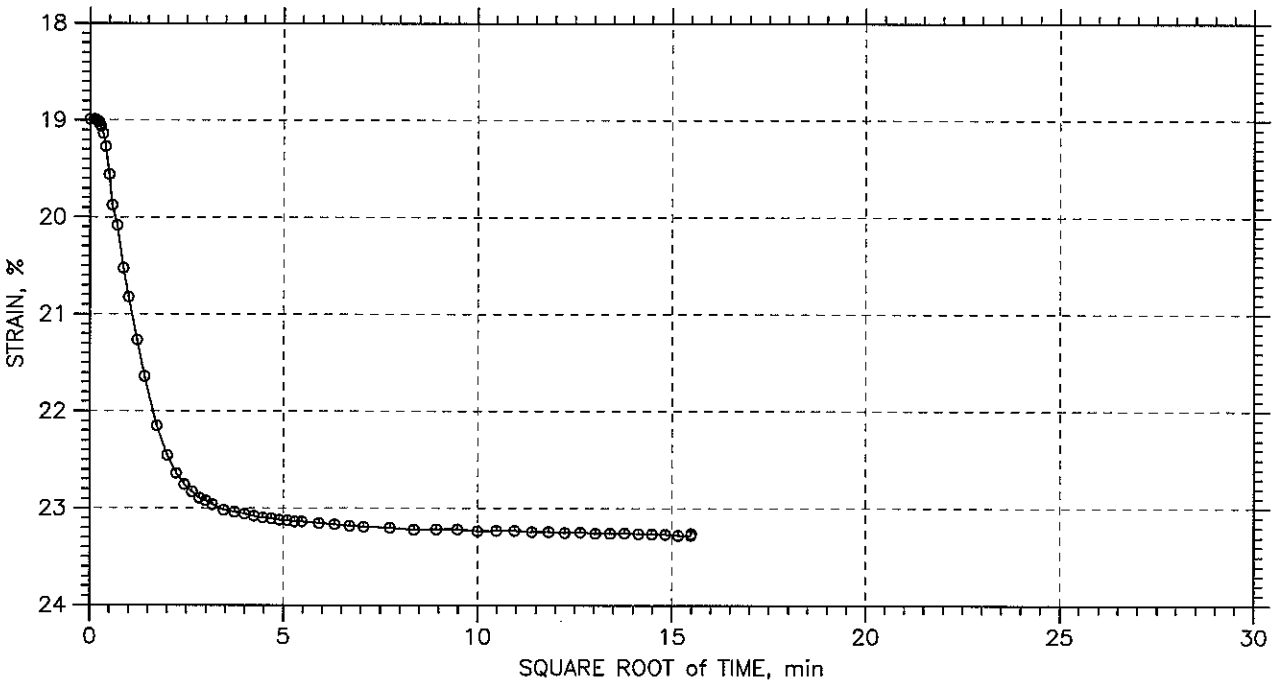
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

Fri, 04-MAY-2007 13:26:41

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:	9:20 AM	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
02/23/07	9:20 AM	0	0.00	85.25	85.25		
	9:25 AM	5	0.08		81.80		
	9:33 AM	13	0.22		76.00		
	9:35 AM	15	0.25		74.40		
	9:43 AM	23	0.38		68.75		
	9:45 AM	25	0.42		67.40		
	9:50 AM	30	0.50		64.10		
	9:55 AM	35.0	0.58		61.90		
	10:00 AM	40.0	0.67		60.25		
	10:05 AM	45	0.75		58.75		
	10:10 AM	50	0.83		57.30		
	10:15 AM	55	0.92		55.90		
	10:20 AM	60	1.00		54.40		
	10:26 AM	66	1.10	84.60	52.90		
	10:31 AM	71	1.18		51.60		
	10:35 AM	75	1.25		50.60		
	10:41 AM	81	1.35		49.10		
	10:50 AM	90	1.50		47.00		
	11:00 AM	100	1.67		44.50		
	11:10 AM	110	1.83		42.25		
	11:33 AM	133	2.22	83.60	37.50		
	11:45 AM	145	2.42		35.25		
	12:00 PM	160	2.67		32.90		
	12:21 PM	181	3.02		29.80		
	12:31 PM	191	3.18		28.50		
	12:45 PM	205	3.42		26.75		
	1:00 PM	220	3.67		25.00		
	1:15 PM	235	3.92		23.80		
	1:35 PM	255	4.25	82.25	23.10		
	2:00 PM	280	4.67		22.40		
	2:15 PM	295	4.92		22.10		
	3:00 PM	340	5.67		21.40		
	3:20 PM	360	6.00		21.10		
	3:33 PM	373	6.22	80.90	20.90		
	4:10 PM	410	6.83		20.50		
	5:15 PM	475	7.92		19.80		
	6:25 PM	545	9.08		19.20		
02/24/07	9:20 AM	1440	24.00		14.90		
	9:30 AM	1450	24.17	79.40	14.90		
	11:00 AM	1540	25.67		14.70		
	1:00 PM	1660	27.67		14.50		
	1:45 PM	1705	28.42		14.40		
02/25/07	8:45 AM	2845	47.42	79.20	13.60		

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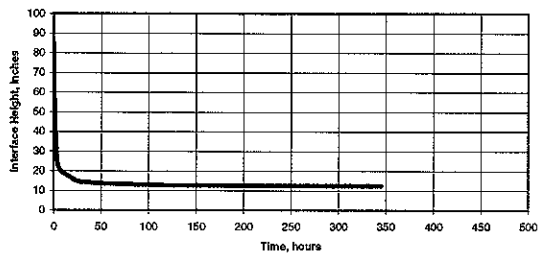
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:	9:20 AM	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
02/28/07	9:30 AM	7210	120.17	76.25	12.70		
03/03/07	9:50 AM	11550	192.50	74.50	12.50		
03/06/07	9:00 AM	14920	248.67	73.10	12.40		
03/10/07	10:00 AM	20680	344.67	73.10	12.40		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	691	2705	1898									
Wet Sample + Tare Wt, g	186.12	180.03	177.37									
Dried Sample + Tare Wt, g	120.67	116.60	117.73									
Tare Wt, g	110.89	107.42	109.52									
Water Wt, g	65.45	63.43	59.64									
Dried Sample Wt, g	9.78	9.179	8.21									
Salt Wt, g	0.032	0.031	0.029									
Particulates Wt, g	9.748	9.148	8.181									
Particulates Conc. (g/L)	140.6	136.4	130.0									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	19	21	24	25	26							
Wet Sample + Tare Wt, g	114.02	104.24	110.74	117.81	123.23							
Dried Sample + Tare Wt, g	66.88	66.11	67.68	67.91	67.16							
Tare Wt, g	66.77	66.02	67.57	67.77	67.02							
Water Wt, g	47.14	38.13	43.06	49.90	56.07							
Dried Sample Wt, g	0.11	0.09	0.11	0.14	0.14							
Salt Wt, g	0.023	0.018	0.021	0.024	0.027							
Particulates Wt, g	0.087	0.072	0.089	0.116	0.113							
Particulates Conc. (g/L)	1.9	1.9	2.1	2.3	2.0							

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	65	67	69	88	89	90	92					
Wet Sample + Tare Wt, g	110.38	104.67	107.29	111.71	112.12	123.09	120.17					
Dried Sample + Tare Wt, g	67.62	67.98	68.16	67.82	66.42	68.20	67.80					
Tare Wt, g	67.52	67.91	68.09	67.71	66.31	68.08	67.67					
Water Wt, g	42.76	36.69	39.13	43.89	45.70	54.89	52.37					
Dried Sample Wt, g	0.10	0.07	0.07	0.11	0.11	0.12	0.13					
Salt Wt, g	0.021	0.018	0.019	0.021	0.022	0.026	0.025					
Particulates Wt, g	0.079	0.052	0.051	0.089	0.088	0.094	0.105					
Particulates Conc. (g/L)	1.9	1.4	1.3	2.0	1.9	1.7	2.0					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	174	112	171	99A	189	186	188	110	190	170		
Wet Sample + Tare Wt, g	109.10	109.26	101.44	109.83	110.08	113.85	117.31	114.29	120.47	116.55		
Dried Sample + Tare Wt, g	67.14	67.79	66.77	67.17	67.29	67.11	66.86	66.31	67.98	68.20		
Tare Wt, g	67.05	67.72	66.71	67.08	67.17	67.01	66.76	66.20	67.86	68.09		
Water Wt, g	41.96	41.47	34.67	42.66	42.79	46.74	50.45	47.98	52.49	48.35		
Dried Sample Wt, g	0.09	0.07	0.06	0.09	0.12	0.10	0.10	0.11	0.12	0.11		
Salt Wt, g	0.020	0.020	0.017	0.021	0.021	0.023	0.024	0.023	0.025	0.023		
Particulates Wt, g	0.070	0.050	0.043	0.069	0.099	0.077	0.076	0.087	0.095	0.087		
Particulates Conc. (g/L)	1.7	1.2	1.2	1.6	2.3	1.7	1.5	1.8	1.8	1.8		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	205	193	166	100A	167	169	27	162	97	164		
Wet Sample + Tare Wt, g	105.59	110.71	107.74	111.63	103.45	118.16	112.66	124.96	114.04	124.32		
Dried Sample + Tare Wt, g	66.62	66.96	66.72	67.58	66.82	67.08	65.88	66.83	67.46	67.21		
Tare Wt, g	66.51	66.85	66.62	67.48	66.72	66.95	65.75	66.68	67.34	67.08		
Water Wt, g	38.97	43.75	41.02	44.05	36.63	51.08	46.78	58.13	46.58	57.11		
Dried Sample Wt, g	0.11	0.11	0.10	0.10	0.10	0.13	0.13	0.15	0.12	0.13		
Salt Wt, g	0.019	0.021	0.020	0.021	0.018	0.025	0.023	0.028	0.022	0.027		
Particulates Wt, g	0.091	0.089	0.080	0.079	0.082	0.105	0.107	0.122	0.098	0.103		
Particulates Conc. (g/L)	2.3	2.0	2.0	1.8	2.2	2.1	2.3	2.1	2.1	1.8		

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	4	5	6	7	9	11	12	14	15	16	17	
Wet Sample + Tare Wt, g	106.40	105.28	109.94	109.08	106.82	115.77	115.42	106.42	119.91	120.10	121.27	
Dried Sample + Tare Wt, g	66.48	67.39	68.18	68.21	67.67	65.91	66.34	66.59	68.23	67.45	66.94	
Tare Wt, g	66.38	67.32	68.07	68.09	67.57	65.79	66.23	66.49	68.10	67.32	66.81	
Water Wt, g	39.92	37.89	41.76	40.87	39.15	49.86	49.08	39.83	51.68	52.65	54.33	
Dried Sample Wt, g	0.10	0.07	0.11	0.12	0.10	0.12	0.11	0.10	0.13	0.13	0.13	
Salt Wt, g	0.019	0.018	0.020	0.020	0.019	0.024	0.024	0.019	0.025	0.025	0.026	
Particulates Wt, g	0.081	0.052	0.090	0.100	0.081	0.096	0.086	0.081	0.105	0.105	0.104	
Particulates Conc. (g/L)	2.0	1.4	2.2	2.5	2.1	1.9	1.8	2.0	2.0	2.0	1.9	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	158	159	160	161	163	165	168	172	173	175	
Wet Sample + Tare Wt, g	---	112.40	115.08	115.19	115.19	123.17	120.87	124.79	120.11	125.36	124.15	
Dried Sample + Tare Wt, g	---	66.87	66.89	67.07	66.55	68.40	68.20	68.06	66.90	68.60	67.46	
Tare Wt, g	---	66.77	66.78	66.95	66.45	68.28	68.07	67.93	66.78	68.46	67.36	
Water Wt, g	---	45.53	48.19	48.12	48.64	54.77	52.67	56.73	53.21	56.76	56.69	
Dried Sample Wt, g	---	0.10	0.11	0.12	0.10	0.12	0.13	0.13	0.12	0.14	0.10	
Salt Wt, g	---	0.022	0.023	0.023	0.023	0.026	0.025	0.027	0.026	0.027	0.027	
Particulates Wt, g	---	0.078	0.087	0.097	0.077	0.094	0.105	0.103	0.094	0.113	0.073	
Particulates Conc. (g/L)	---	1.7	1.8	2.0	1.6	1.7	2.0	1.8	1.8	2.0	1.3	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	4	5	6	7	9	11	12	14	15	16	17
Wet Sample + Tare Wt, g	---	110.19	105.67	116.98	117.44	124.33	120.21	115.21	125.04	123.24	126.23	122.18
Dried Sample + Tare Wt, g	---	66.47	67.38	68.19	68.20	67.74	65.90	66.33	66.61	68.21	67.45	66.93
Tare Wt, g	---	66.39	67.31	68.08	68.09	67.57	65.78	66.23	66.49	68.10	67.31	66.81
Water Wt, g	---	43.72	38.29	48.79	49.24	56.59	54.31	48.88	58.43	55.03	58.78	55.25
Dried Sample Wt, g	---	0.08	0.07	0.11	0.11	0.17	0.12	0.10	0.12	0.11	0.14	0.12
Salt Wt, g	---	0.021	0.018	0.023	0.024	0.027	0.026	0.024	0.028	0.026	0.028	0.027
Particulates Wt, g	---	0.059	0.052	0.087	0.086	0.143	0.094	0.076	0.092	0.084	0.112	0.093
Particulates Conc. (g/L)	---	1.3	1.3	1.8	1.8	2.5	1.7	1.6	1.6	1.5	1.9	1.7

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	98	99	99A	98A	96	101	154	103A	164	165	167
Wet Sample + Tare Wt, g	---	111.04	108.66	109.12	110.34	113.60	109.75	111.77	110.01	119.69	118.53	120.36
Dried Sample + Tare Wt, g	---	67.50	67.91	67.17	67.44	68.24	68.17	67.35	68.22	67.19	68.14	66.83
Tare Wt, g	---	67.43	67.83	67.07	67.37	68.14	68.06	67.26	68.14	65.09	68.08	66.73
Water Wt, g	---	43.54	40.75	41.95	42.90	45.36	41.58	44.42	41.79	52.50	50.39	53.53
Dried Sample Wt, g	---	0.07	0.08	0.10	0.07	0.10	0.11	0.09	0.08	2.10	0.06	0.10
Salt Wt, g	---	0.021	0.020	0.020	0.021	0.022	0.020	0.021	0.020	0.025	0.024	0.026
Particulates Wt, g	---	0.049	0.060	0.080	0.049	0.078	0.090	0.069	0.060	2.075	0.036	0.074
Particulates Conc. (g/L)	---	1.1	1.5	1.9	1.1	1.7	2.2	1.5	1.4	38.9	0.7	1.4

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	98	98A	99	99A	101	101A	102	102A	103	103A	109
Wet Sample + Tare Wt, g	---	109.26	110.26	108.48	119.9	111.22	109.5	108.66	118.48	109.14	104.6	117.11
Dried Sample + Tare Wt, g	---	67.49	67.46	67.91	67.18	68.14	67.39	68.21	67.93	67.67	68.24	68.28
Tare Wt, g	---	67.42	67.38	67.77	67.09	68.04	67.24	68.06	67.87	67.57	68.14	68.09
Water Wt, g	---	41.77	42.8	40.57	52.72	43.08	42.11	40.45	50.55	41.47	36.36	48.83
Dried Sample Wt, g	---	0.07	0.08	0.14	0.09	0.1	0.15	0.15	0.06	0.1	0.1	0.19
Salt Wt, g	---	0.020	0.021	0.020	0.025	0.021	0.020	0.019	0.024	0.020	0.018	0.024
Particulates Wt, g	---	0.050	0.059	0.120	0.065	0.079	0.130	0.131	0.036	0.080	0.082	0.166
Particulates Conc. (g/L)	---	1.2	1.4	3.0	1.2	1.8	3.1	3.2	0.7	1.9	2.3	3.4

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	27	28	29	30	33							
Dry Particulates + Filter Paper Wt, g	0.0932	0.1016	0.1061	0.0937	0.1122							
Filter Paper Wt, g	0.0835	0.0800	0.0837	0.0785	0.0795							
Dry Particulates Wt, g	0.0097	0.0216	0.0224	0.0152	0.0327							
Volume (mL)	137	135	128	131	137							
Particulates TSS Conc. (mg/L)	70.803	160.000	175.000	116.031	238.686							
Turbidity (NTU)	45	85	100	70	120							

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	34	95	96	97	100A	193	205					
Dry Particulates + Filter Paper Wt, g	0.0825	0.0857	0.0813	0.0908	0.0872	0.0923	0.0872					
Filter Paper Wt, g	0.0794	0.0795	0.0773	0.0826	0.0789	0.0815	0.0761					
Dry Particulates Wt, g	0.0031	0.0062	0.0040	0.0082	0.0083	0.0108	0.0111					
Volume (mL)	133	137	135	133	138	141	141					
Particulates TSS Conc. (mg/L)	23.308	45.255	29.630	61.654	60.145	76.596	78.723					
Turbidity (NTU)	17	28	40	38	40	50	50					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	187	173	109	100	113	172	108	111	101	28		
Dry Particulates + Filter Paper Wt, g	0.0797	0.0805	0.0755	0.0852	0.0815	0.0820	0.0860	0.0838	0.0888	0.0805		
Filter Paper Wt, g	0.0790	0.0790	0.0738	0.0825	0.0781	0.0786	0.0823	0.0802	0.0841	0.0741		
Dry Particulates Wt, g	0.0007	0.0015	0.0017	0.0027	0.0034	0.0034	0.0037	0.0036	0.0047	0.0064		
Volume (mL)	142	140	133	132	141	153	140	139	134	140		
Particulates TSS Conc. (mg/L)	4.930	10.714	12.782	20.455	24.113	22.222	26.429	25.899	35.075	45.714		
Turbidity (NTU)	7.8	7.4	12	16	16	17	18	20	21	31		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	168	207	58	98	208	33	34	29	163	46		
Dry Particulates + Filter Paper Wt, g	0.0788	0.0850	0.0817	0.0842	0.0824	0.0789	0.0796	0.0830	0.0837	0.0837		
Filter Paper Wt, g	0.0778	0.0839	0.0802	0.0804	0.0803	0.0768	0.0771	0.0802	0.0808	0.0805		
Dry Particulates Wt, g	0.001	0.0011	0.0015	0.0038	0.0021	0.0021	0.0025	0.0028	0.0029	0.0032		
Volume (mL)	133	136	136	136	134	135	135	139	130	133		
Particulates TSS Conc. (mg/L)	7.519	8.088	11.029	27.941	15.672	15.556	18.519	20.144	22.308	24.060		
Turbidity (NTU)	6.9	6.7	6.3	8.1	8.9	9.8	11	13	14	15		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	18	28	29	30	33	34	35	36	38	39	40	
Dry Particulates + Filter Paper Wt, g	0.0815	0.0795	0.0814	0.0813	0.0796	0.0812	0.0786	0.0791	0.0805	0.0805	0.0797	
Filter Paper Wt, g	0.0805	0.0787	0.0810	0.0804	0.0789	0.0804	0.0777	0.0787	0.0795	0.0790	0.0784	
Dry Particulates Wt, g	0.0010	0.0008	0.0004	0.0009	0.0007	0.0008	0.0009	0.0004	0.0010	0.0015	0.0013	
Volume (mL)	128	135	132	130	132	136	131	133	142	142	150	
Particulates TSS Conc. (mg/L)	7.813	5.926	3.030	6.923	5.303	5.882	6.870	3.008	7.042	10.563	8.667	
Turbidity (NTU)	2.8	2.9	2.1	3.3	2.6	3.4	4.0	2.5	2.5	3.8	5.5	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	206	192	191	187	185	184	183	182	181	180	
Dry Particulates + Filter Paper Wt, g	---	0.0813	0.0810	0.0813	0.0796	0.0811	0.0780	0.0804	0.0817	0.0805	0.0884	
Filter Paper Wt, g	---	0.0800	0.0800	0.0804	0.0787	0.0802	0.0766	0.0788	0.0788	0.0762	0.0801	
Dry Particulates Wt, g	---	0.0013	0.0010	0.0009	0.0009	0.0009	0.0014	0.0016	0.0029	0.0043	0.0083	
Volume (mL)	---	139	143	139	140	142	140	144	135	137	138	
Particulates TSS Conc. (mg/L)	---	9.353	6.993	6.475	6.429	6.338	10.000	11.111	21.481	31.387	60.145	
Turbidity (NTU)	---	3.1	3.3	3.0	3.5	5.2	7.2	9.0	14	25	45	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	19	21	24	25	26	27	28	29	30	33	34
Dry Particulates + Filter Paper Wt, g	---	0.0813	0.0825	0.0832	0.0818	0.0834	0.0831	0.0839	0.0838	0.0817	0.0886	0.1005
Filter Paper Wt, g	---	0.0792	0.0799	0.0804	0.0792	0.0803	0.0803	0.0803	0.0801	0.0766	0.0801	0.0806
Dry Particulates Wt, g	---	0.0021	0.0026	0.0028	0.0026	0.0031	0.0028	0.0036	0.0037	0.0051	0.0085	0.0199
Volume (mL)	---	124	140	139	140	134	141	144	148	139	140	142
Particulates TSS Conc. (mg/L)	---	16.935	18.571	20.144	18.571	23.134	19.858	25.000	25.000	36.691	60.714	140.141
Turbidity (NTU)	---	8.2	8.4	6.7	7.6	8.0	8.4	11	11	18	34	95

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	105	107	120	97	121	151	105A	123	100	100A	104A
Dry Particulates + Filter Paper Wt, g	---	0.0830	0.0778	0.0784	0.0796	0.0800	0.0798	0.0820	0.0827	0.0806	0.0791	0.0837
Filter Paper Wt, g	---	0.0811	0.0770	0.0766	0.0782	0.0790	0.0788	0.0810	0.0815	0.0795	0.0767	0.0793
Dry Particulates Wt, g	---	0.0019	0.0008	0.0018	0.0014	0.0010	0.0010	0.0010	0.0012	0.0011	0.0024	0.0044
Volume (mL)	---	137	139	136	142	137	140	137	141	144	142	145
Particulates TSS Conc. (mg/L)	---	13.869	5.755	13.235	9.859	7.299	7.143	7.299	8.511	7.639	16.901	30.345
Turbidity (NTU)	---	4.5	4.9	4.8	4.4	4.2	5.0	5.6	5.7	7.5	9.3	23

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10116	CST Test #:	6
Test Start Date:	2/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	182	92	85	107	29	50	203	89	90	84	105
Dry Particulates + Filter Paper Wt, g	---	0.0782	0.0733	0.0861	0.0784	0.0790	0.0789	0.0791	0.0799	0.0794	0.0766	0.0790
Filter Paper Wt, g	---	0.0775	0.0717	0.0847	0.0777	0.0785	0.0781	0.0788	0.0793	0.0784	0.0759	0.0751
Dry Particulates Wt, g	---	0.0007	0.0016	0.0014	0.0007	0.0005	0.0008	0.0003	0.0006	0.0010	0.0007	0.0039
Volume (mL)	---	141	137	139	137	141	134	142	138	141	141	147
Particulates TSS Conc. (mg/L)	---	4.965	11.679	10.072	5.109	3.546	5.970	2.113	4.348	7.092	4.965	26.531
Turbidity (NTU)	---	2.2	2.9	2.3	2.2	2.1	2.3	2.2	2.2	2.9	6.4	14

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10116		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50271		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10116	---	Moist, gray silt	73.1

Notes: Temperature of Drying : 110° Celsius

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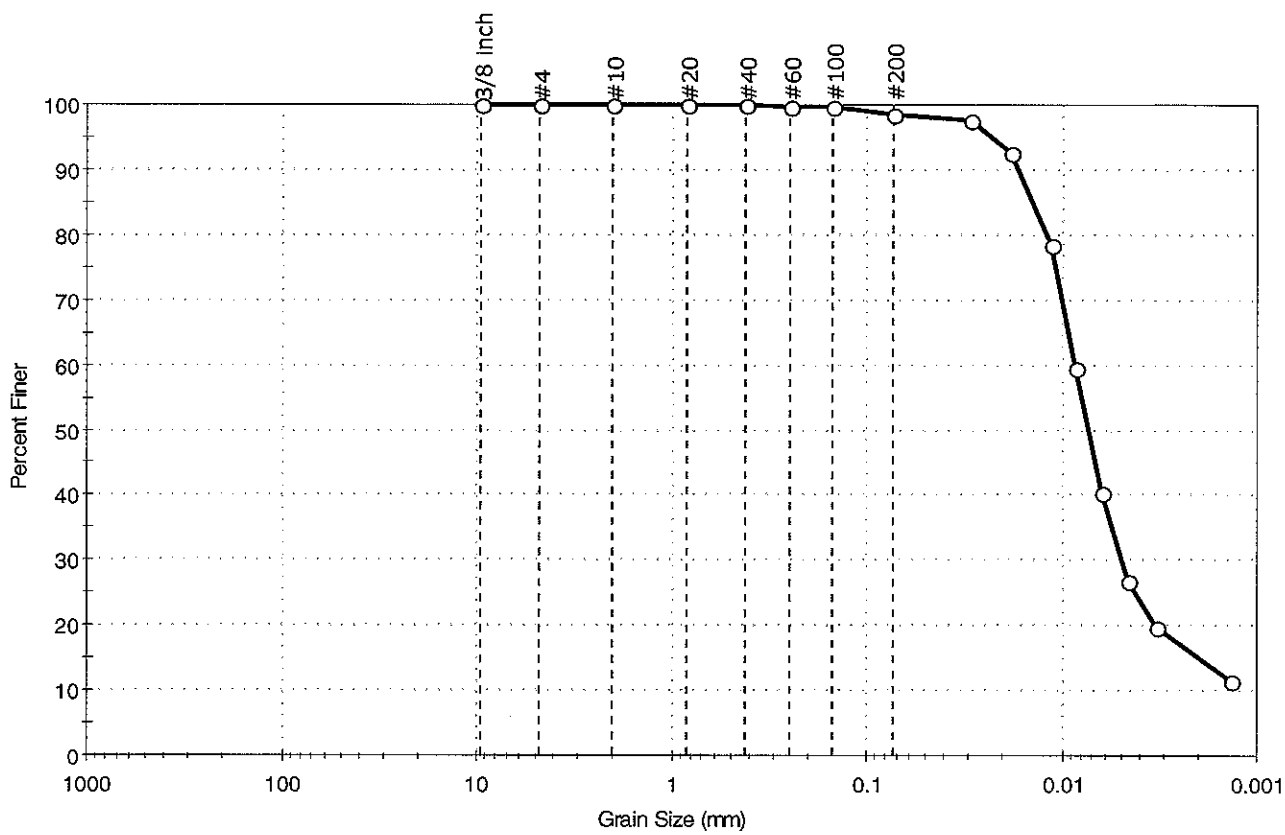
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10116		Test Date:	04/04/07	Checked By:	jdt
Depth : ---		Test Id:	109695		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	1.6	98.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0294	98		
---	0.0186	93		
---	0.0114	79		
---	0.0085	60		
---	0.0063	41		
---	0.0046	27		
---	0.0033	20		
---	0.0014	12		

Coefficients

D_{85} = 0.0142 mm D_{30} = 0.0049 mm
D_{60} = 0.0085 mm D_{15} = 0.0020 mm
D_{50} = 0.0073 mm D_{10} = 0.0012 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (30))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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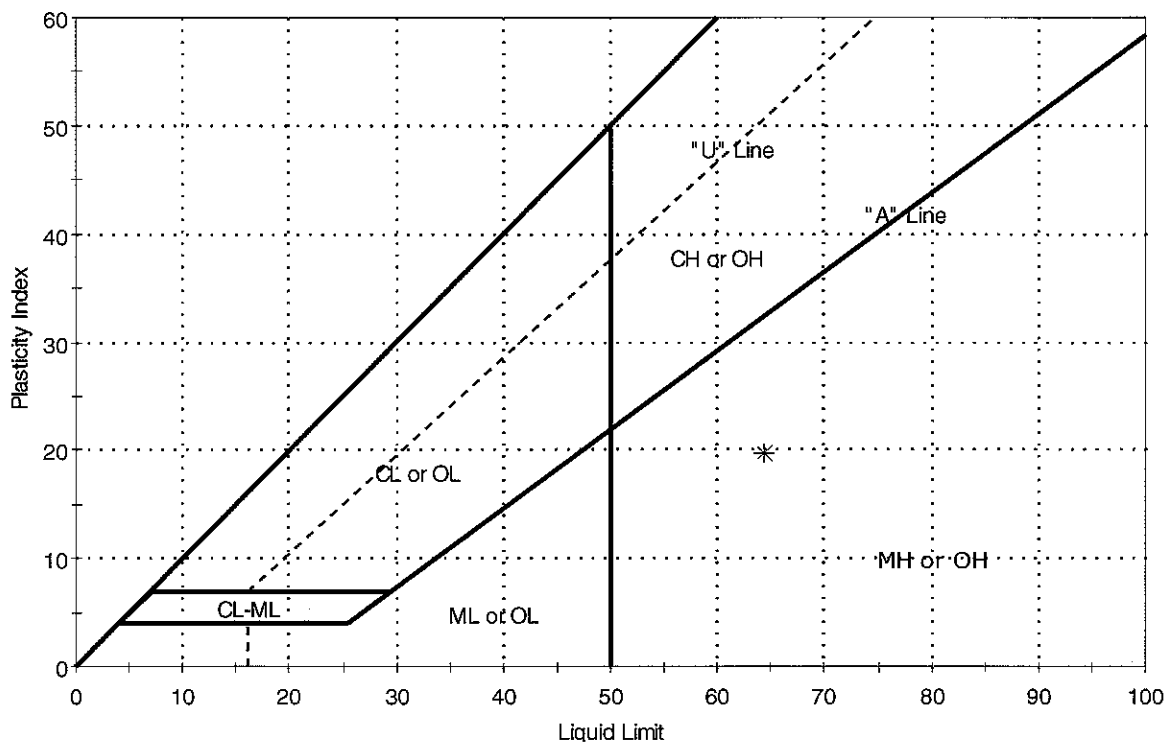
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-10116	Test Date:	04/27/07	Checked By:	jdt
Depth :	---	Test Id:	109712		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10116	---	---	73	64	45	19	1	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: MEDIUM
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-10116	Test Date:	04/10/07	Checked By:	jdt
Depth :	---	Test Id:	109746		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10116	---	Moist, gray silt	2.6

Notes: Specific Gravity performed by using method B (moist specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	03/16/07
Tested by:	md
Checked by:	jdt

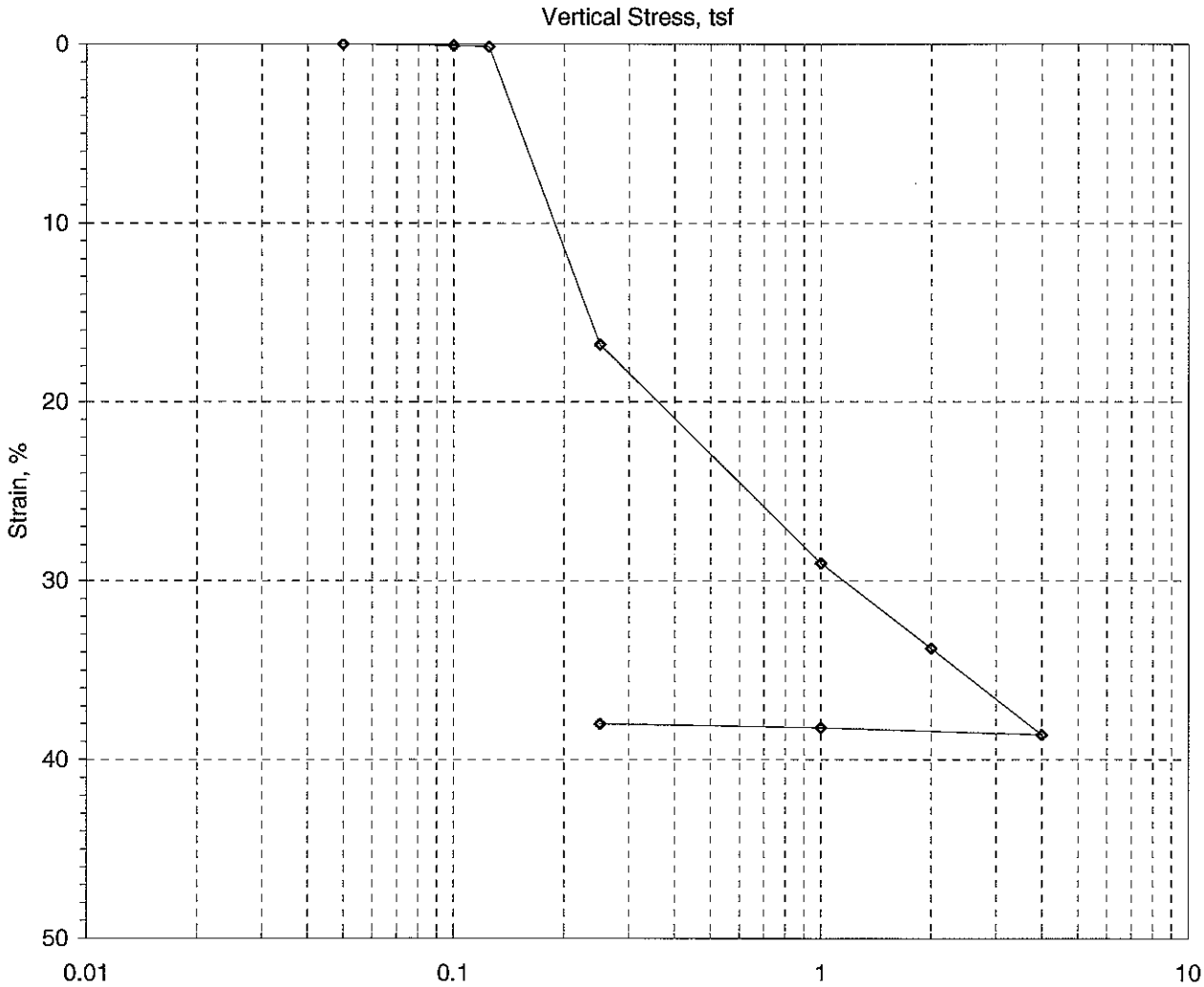
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10116	Moist, gray silt	0.24	0.25	0.28	0.24	0.25

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	174	75
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	34.0	54.8
Compression Index:	---			Saturation, %	99.4	100.0
Diameter:	11.0 in	Initial Height:	9.25 in	Void Ratio	3.77	1.96
LL: 64	PL: 45	PI: 19	GS: '2.60			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks: Unable to report data for 0.5 tsf load increment				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10116
Test No.:CST 6 (LC-4)

Location: Syracuse, NY
Tested By: md
Test Date: 03/13/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System P

Measured Specific Gravity: 2.60
Initial Void Ratio: 3.77
Final Void Ratio: 1.96

Liquid Limit: 64
Plastic Limit: 45
Plasticity Index: 19

Initial Height: 9.25 in
Specimen Diameter: 11.00 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	159	RING		valve
Wt. Container + Wet Soil, gm	112.68	35400	30000	184.35
Wt. Container + Dry Soil, gm	83.54	24086	24086	108.57
Wt. Container, gm	66.8	16240	16240	8.03
Wt. Dry Soil, gm	16.74	7846.1	7846.1	100.54
Water Content, %	174.1	144.2	75.4	75.4
Void Ratio	---	3.77	1.96	---
Degree of Saturation, %	---	99.4	100.0	---
Dry Unit Weight, pcf	---	34.0	54.8	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10116
Test No.: CST 6 (LC-4)

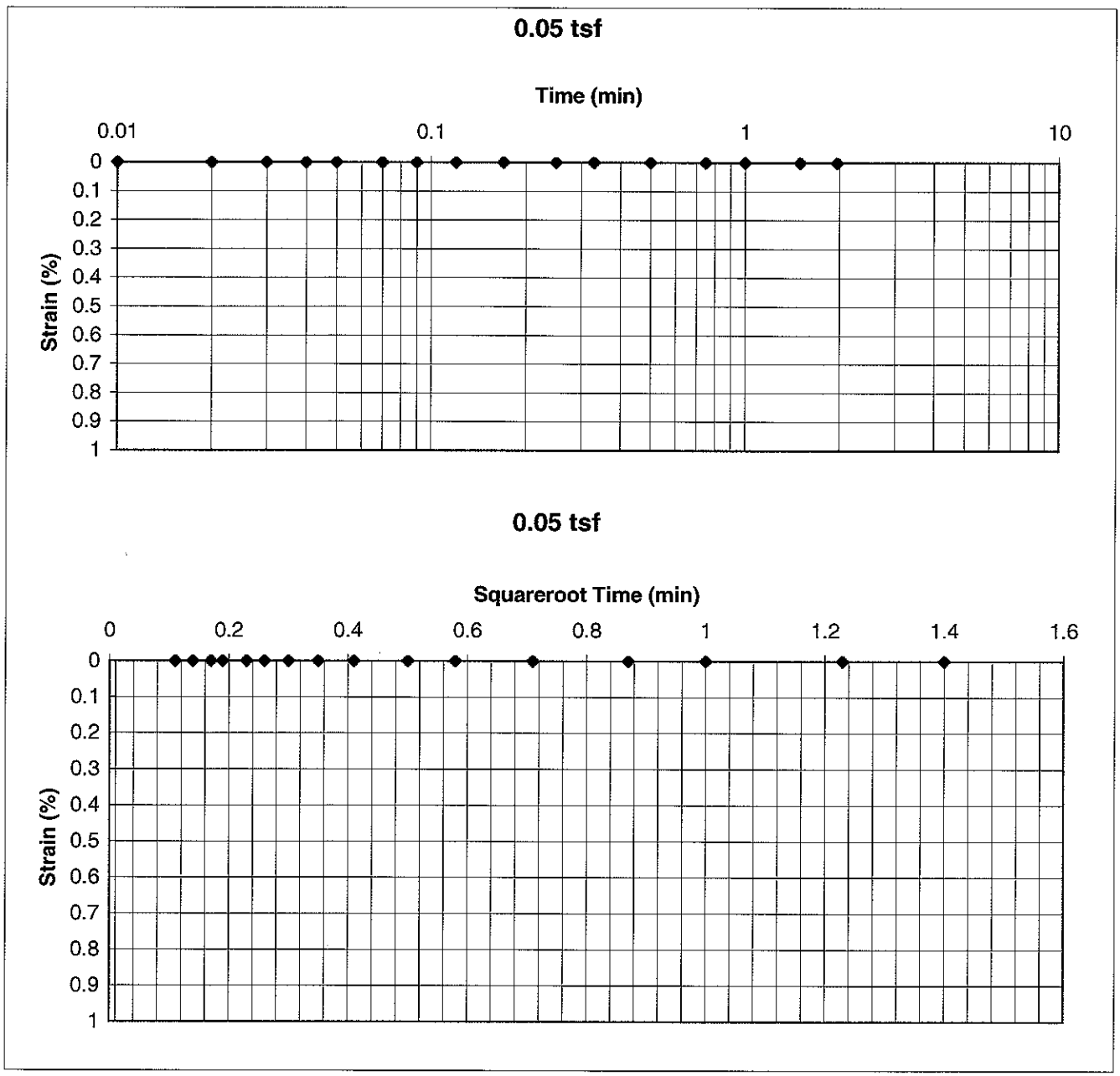
Location: Syracuse, NY
Tested By: md
Test Date: 03/13/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System P

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0	3.773	0.000	0	0	0.00E+00	0.00E+00	0.00E+00
2	0.1	0.007175	3.77	0.078	0.1	0	2.33E+00	0.00E+00	2.33E+00
3	0.125	0.01243	3.767	0.134	0.1	0	2.41E+00	0.00E+00	2.41E+00
4	0.25	1.555	2.971	16.811	22.4	0	1.05E-02	0.00E+00	1.05E-02
6	1	2.68391	2.388	29.015	5.1	9.7	6.24E-02	3.29E-02	4.31E-02
7	2	3.1247	2.161	33.781	2.8	4.7	9.64E-02	5.88E-02	7.30E-02
8	4	3.5707	1.931	38.602	2.3	3.2	1.07E-01	7.68E-02	8.94E-02
9	1	3.5351	1.949	38.217	0	0	7.37E+00	0.00E+00	7.37E+00
10	0.25	3.5142	1.960	37.991	0.1	0	4.25E+00	5.54E+00	4.81E+00

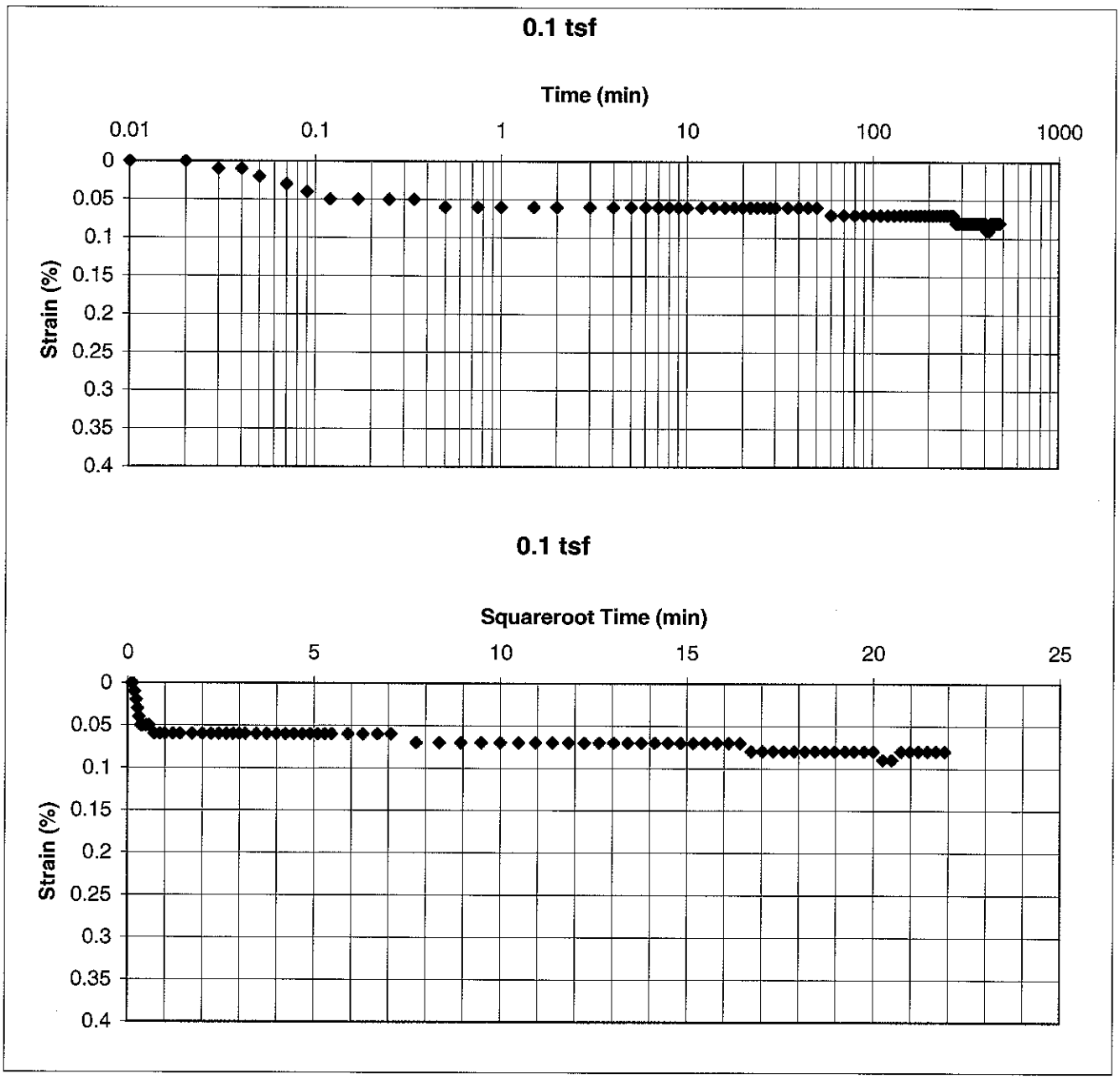
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA

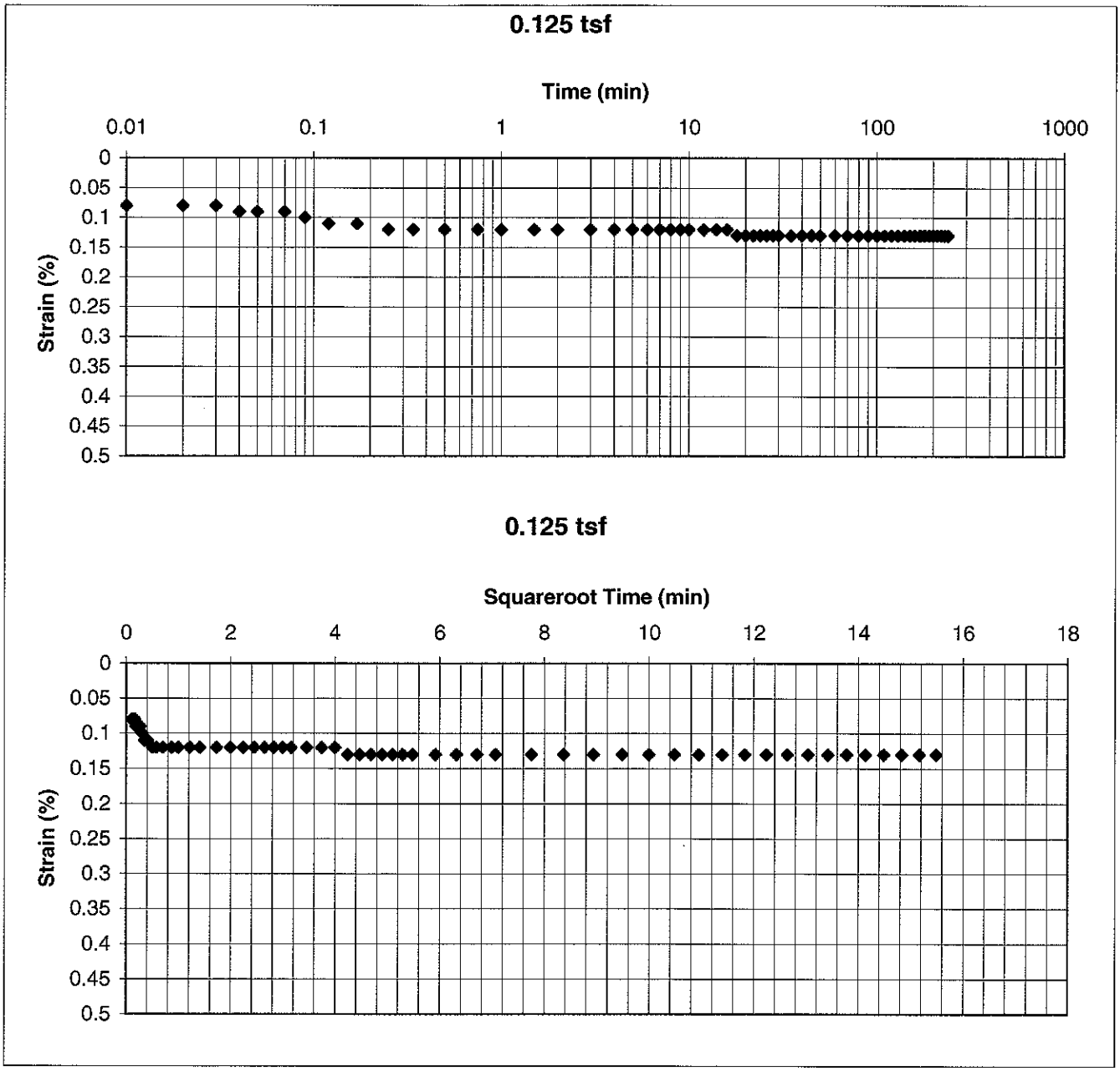
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

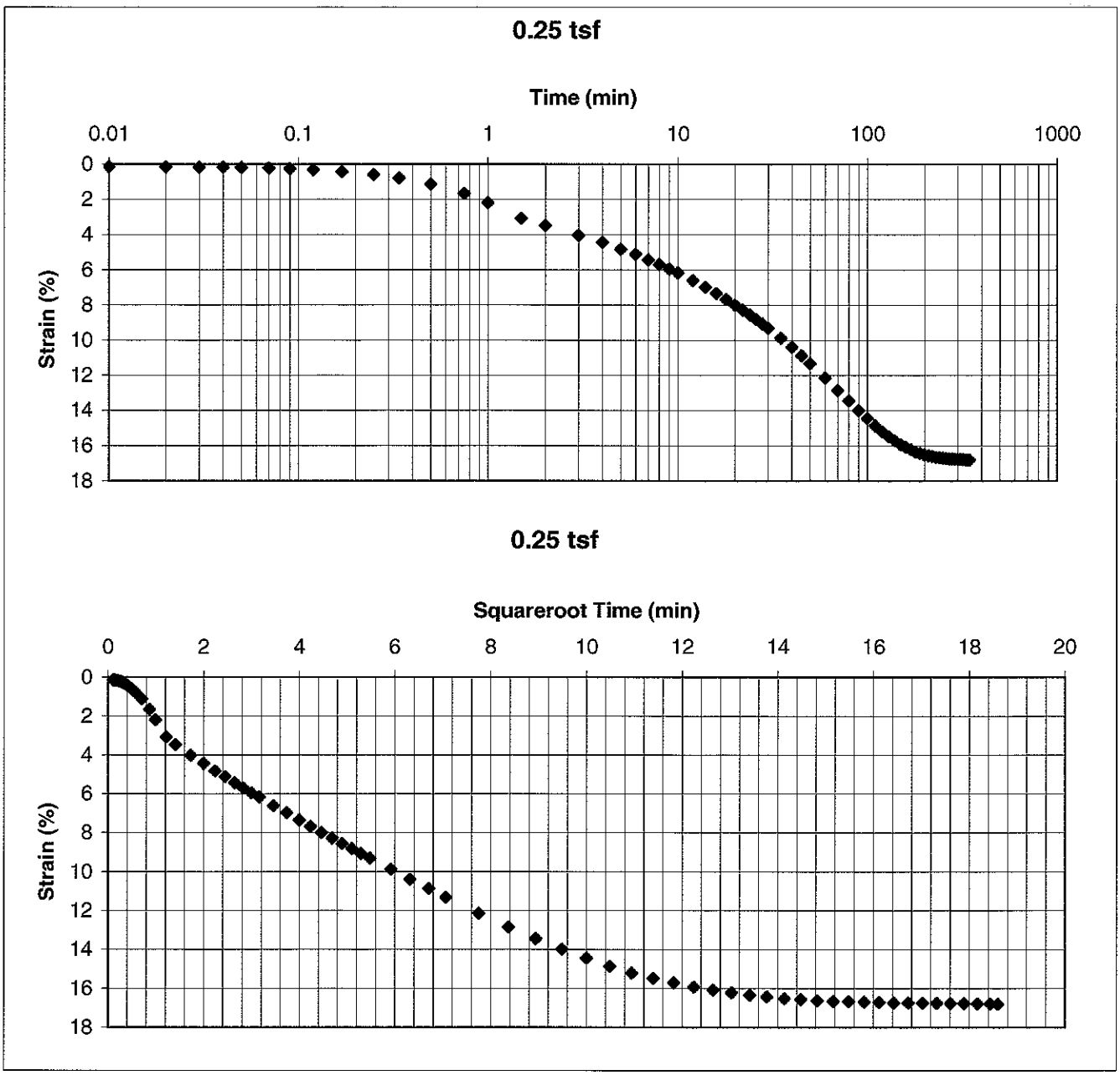
CONSOLIDATION TEST DATA

TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

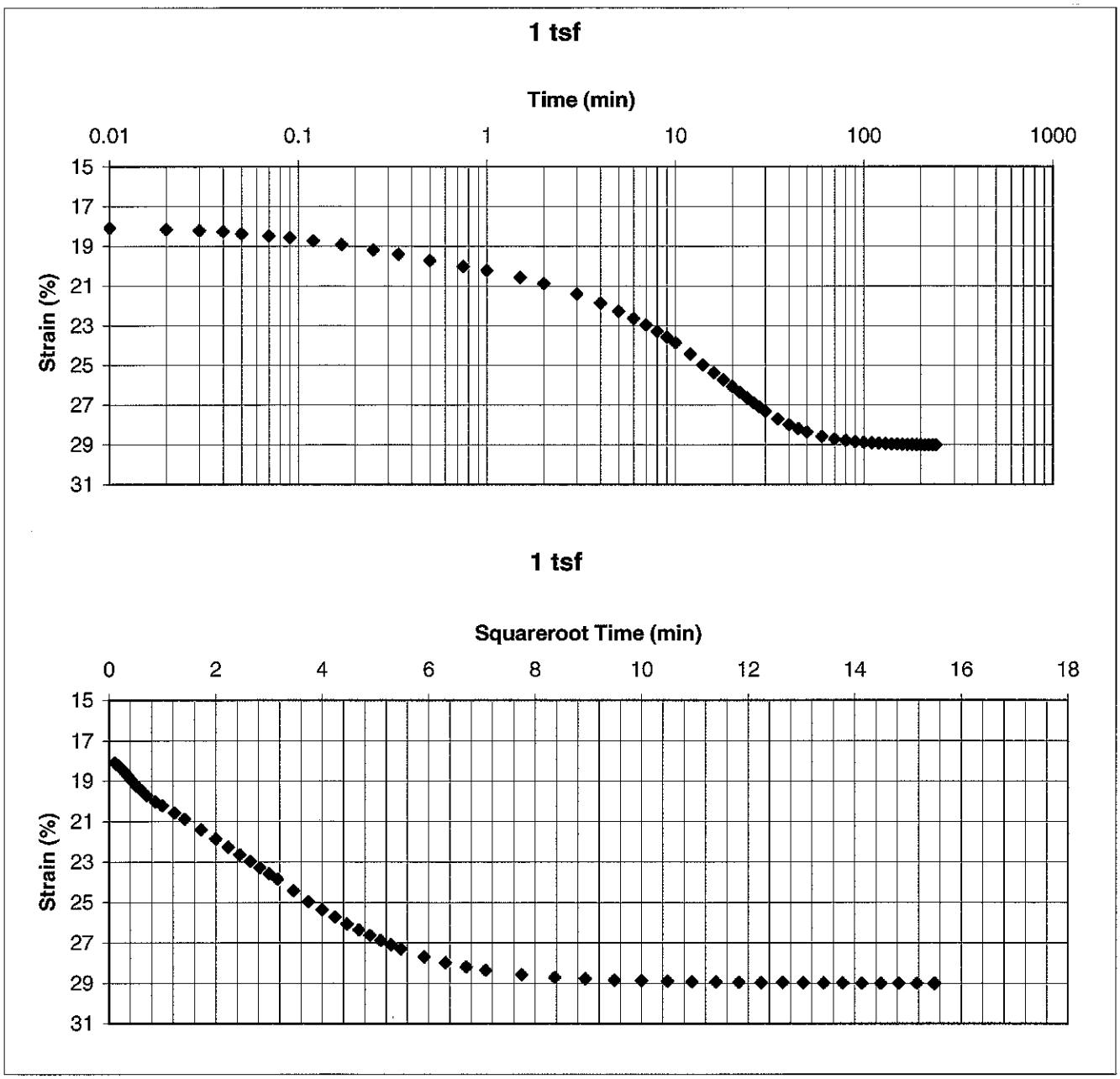
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

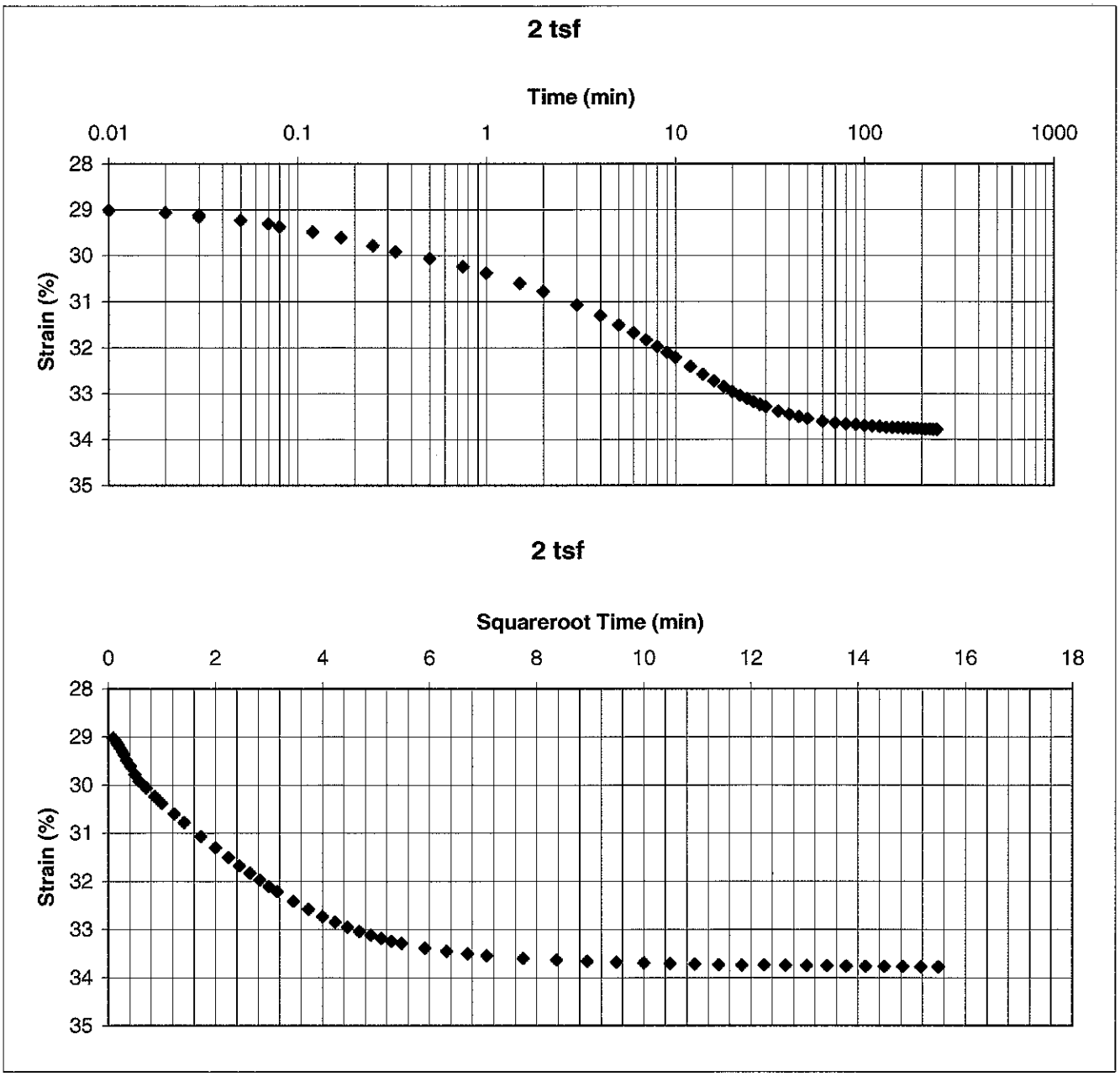
CONSOLIDATION TEST DATA

TIME CURVES



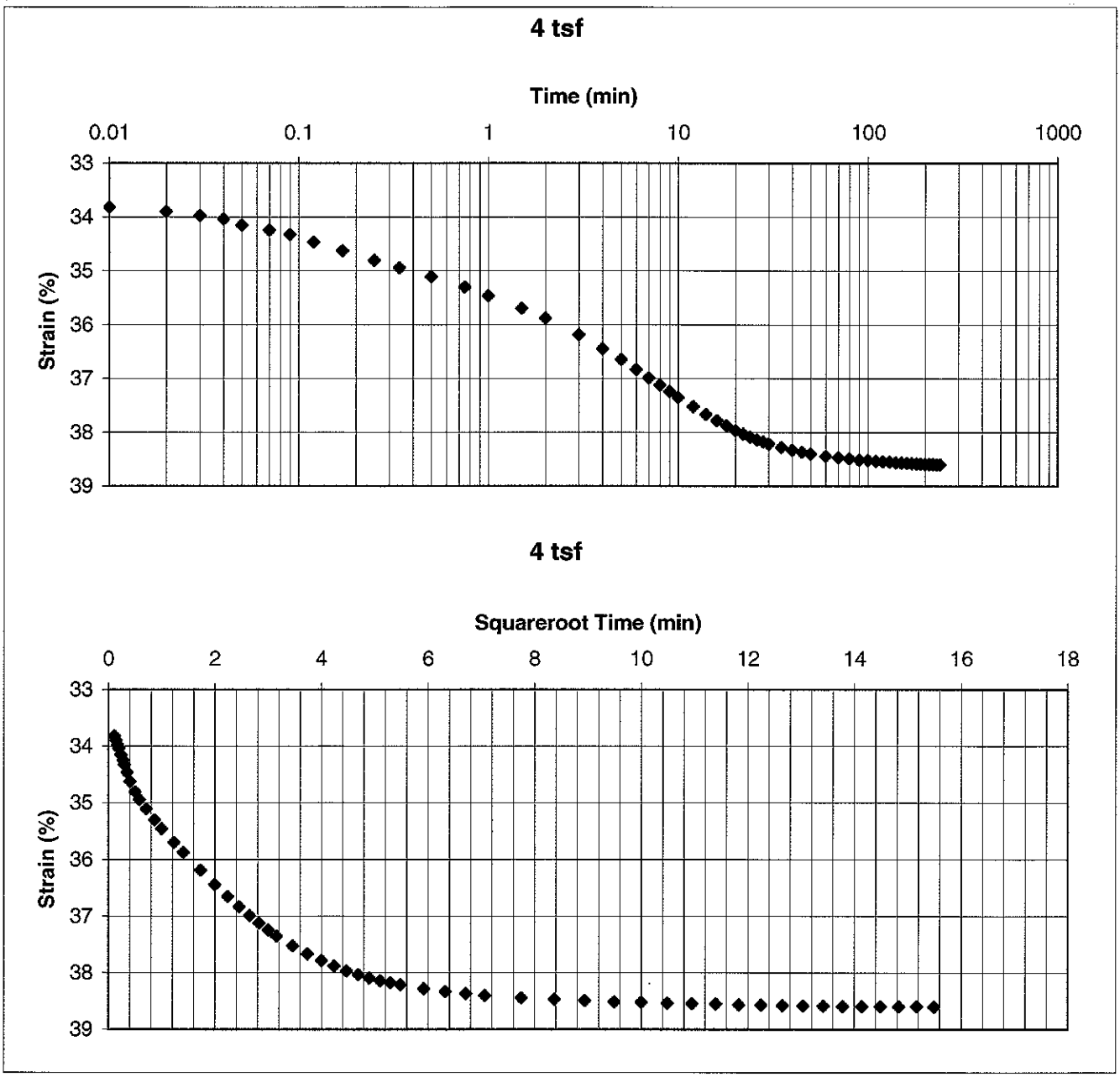
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

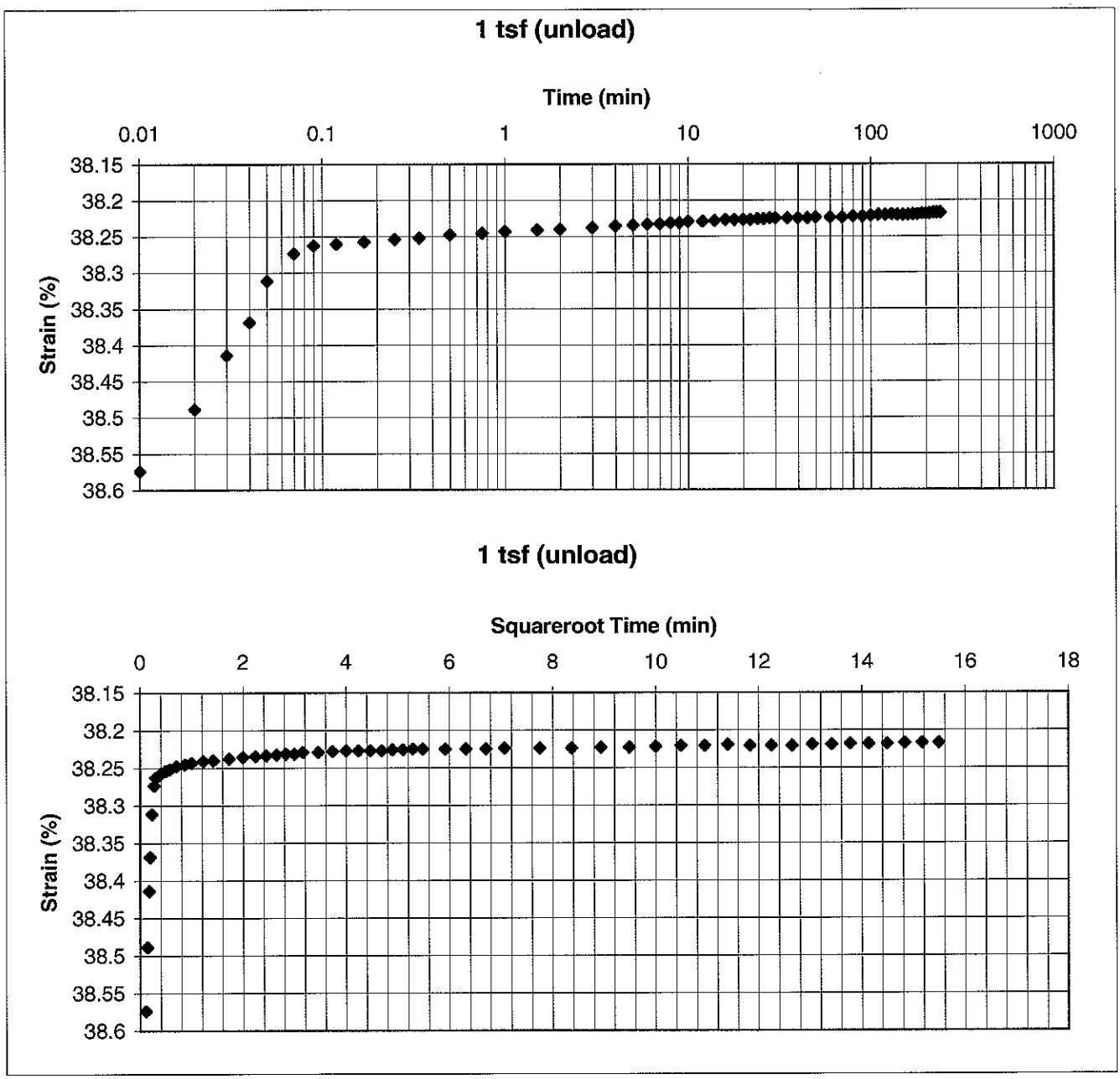
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

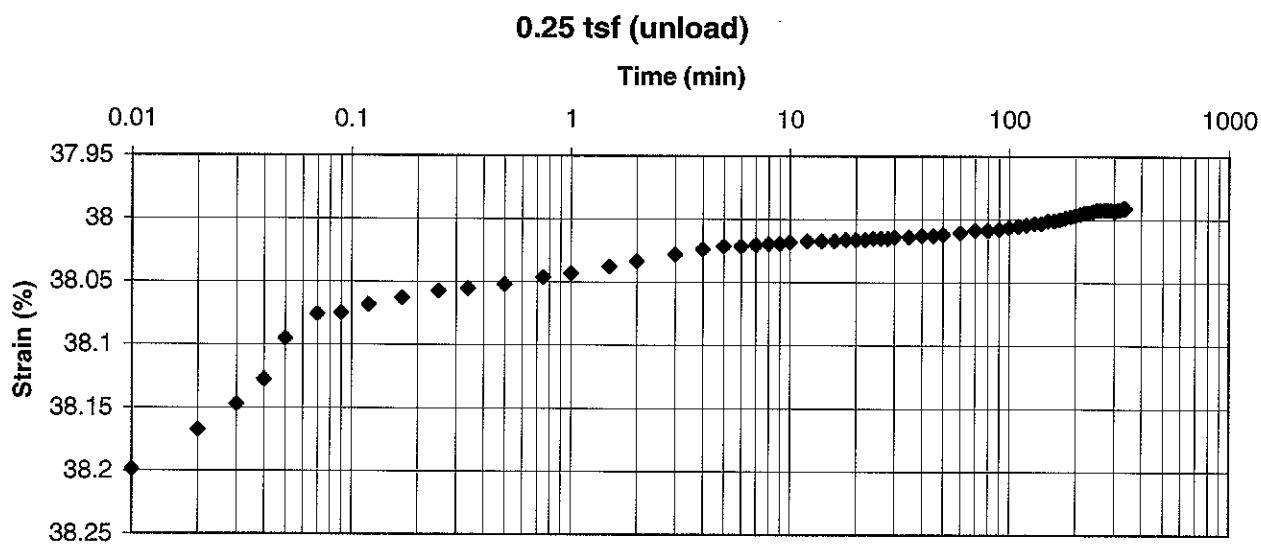
CONSOLIDATION TEST DATA

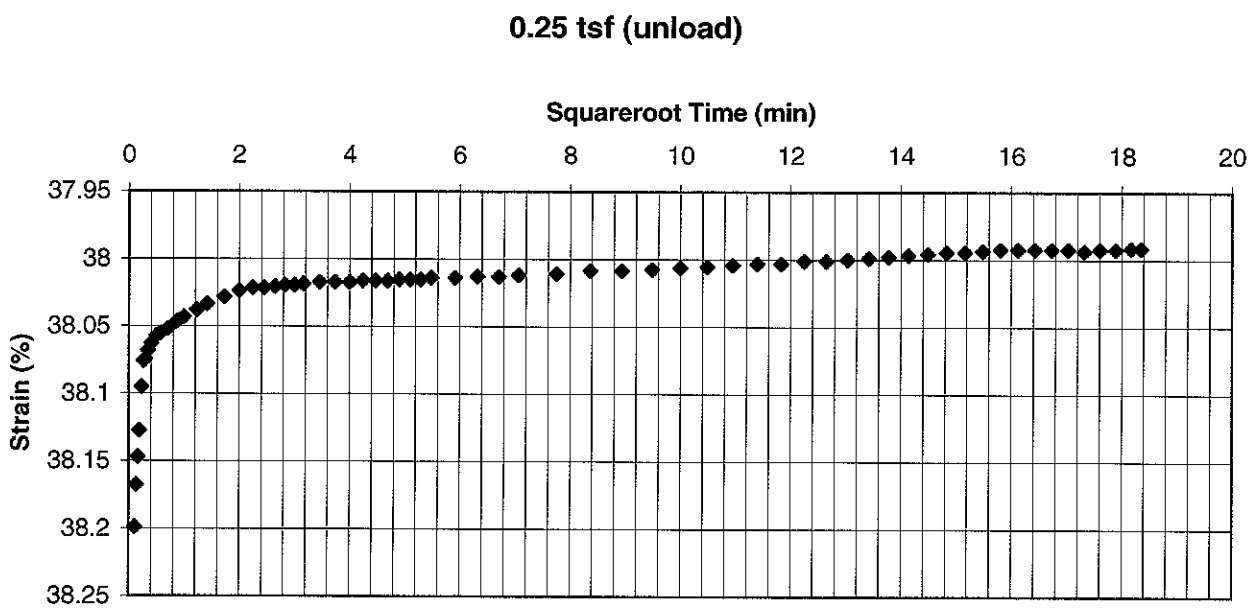
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10116	Test Date:	3/13/2007	Depth:	---
	Test No.: CST 6 (LC-4)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
01/24/07	7:10 AM	0	0.00	84.25	84.25		
01/24/07	7:15 AM	5	0.08	84.00	81.50		
01/24/07	7:20 AM	10	0.17		79.75		
01/24/07	7:25 AM	15	0.25		78.05		
01/24/07	7:31 AM	21	0.35		76.00		
01/24/07	7:35 AM	25	0.42		74.60		
01/24/07	7:40 AM	30	0.50		73.00		
01/24/07	7:40 AM	30.9	0.52		72.75		
01/24/07	7:51 AM	41.1	0.68		69.65		
01/24/07	7:55 AM	45	0.75		68.50		
01/24/07	8:00 AM	50	0.83		67.00		
01/24/07	8:05 AM	55	0.92		65.60		
01/24/07	8:10 AM	60	1.00		64.25		
01/24/07	8:15 AM	65.5	1.09	83.80	62.80		
01/24/07	8:25 AM	75	1.25		60.90		
01/24/07	8:35 AM	85	1.42		58.00		
01/24/07	8:48 AM	98	1.63		55.00		
01/24/07	8:55 AM	105	1.75		53.65		
01/24/07	9:00 AM	110	1.83	83.10	52.70		
01/24/07	9:15 AM	125	2.08		49.90		
01/24/07	9:26 AM	136	2.27		47.90		
01/24/07	9:35 AM	145	2.42		46.50		
01/24/07	9:45 AM	155	2.58		44.90		
01/24/07	10:01 AM	171	2.85		42.70		
01/24/07	10:16 AM	186	3.10		40.60		
01/24/07	10:40 AM	210	3.50		37.40		
01/24/07	11:10 AM	240	4.00		33.60		
01/24/07	11:20 AM	250	4.17	82.10	33.00		
01/24/07	11:36 AM	266	4.43		32.30		
01/24/07	11:45 AM	275	4.58		32.00		
01/24/07	12:00 PM	290	4.83		31.60		
01/24/07	12:25 PM	315	5.25		31.00		
01/24/07	12:45 PM	335	5.58		30.55		
01/24/07	1:00 PM	350	5.83		30.30		
01/24/07	1:10 PM	360	6.00		30.10		
01/24/07	1:20 PM	370	6.17	80.80	30.00		
01/24/07	1:30 PM	380	6.33		29.80		
01/24/07	2:00 PM	410	6.83		29.30		
01/24/07	2:30 PM	440	7.33		28.90		
01/24/07	3:00 PM	470	7.83		28.55		
01/24/07	3:30 PM	500	8.33		28.20		
01/24/07	4:30 PM	560	9.33		27.60		
01/25/07	6:05 AM	1375	22.92		22.20		
01/25/07	7:17 AM	1447	24.12	79.30	21.90		
01/25/07	1:10 PM	1800	30.00		20.65		
01/25/07	3:20 PM	1930	32.17		20.30		

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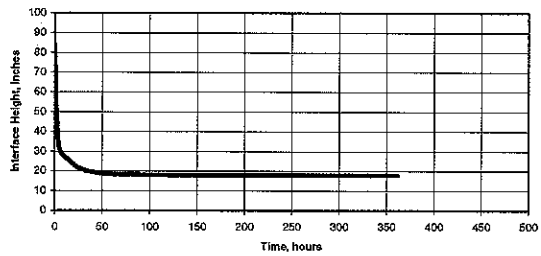
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
01/25/07	5:00 PM	2030	33.83		20.10		
01/26/07	5:30 AM	2780	46.33		18.90		
01/26/07	7:16 AM	2886	48.10	77.80	18.75		
01/26/07	1:10 PM	3240	54.00		18.50		
01/29/07	6:45 AM	7175	119.58		17.90		
01/29/07	9:45 AM	7355	122.58	75.80	17.90		
01/30/07	6:45 AM	8615	143.58		17.90		
01/31/07	12:00 PM	10370	172.83		17.80		
02/01/07	9:00 AM	11630	193.83	73.90	17.80		
02/08/07	9:00 AM	21710	361.83	73.80	17.80		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	---									
Wet Sample + Tare Wt, g	123.65	125.80	121.35									
Dried Sample + Tare Wt, g	73.96	74.38	72.42									
Tare Wt, g	67.98	67.91	66.35									
Water Wt, g	49.69	51.42	48.93									
Dried Sample Wt, g	5.98	6.47	6.07									
Salt Wt, g	0.027	0.028	0.026									
Particulates Wt, g	5.953	6.442	6.044									
Particulates Conc. (g/L)	114.3	119.3	117.7									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2										
Tare No.	4	5										
Wet Sample + Tare Wt, g	113.23	106.17										
Dried Sample + Tare Wt, g	69.67	70.41										
Tare Wt, g	66.39	67.32										
Water Wt, g	43.56	35.76										
Dried Sample Wt, g	3.28	3.09										
Salt Wt, g	0.024	0.019										
Particulates Wt, g	3.256	3.071										
Particulates Conc. (g/L)	72.6	83.0										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3									
Tare No.	6	7	11									
Wet Sample + Tare Wt, g	172.99	117.38	117.91									
Dried Sample + Tare Wt, g	68.33	68.22	65.90									
Tare Wt, g	68.10	68.11	65.79									
Water Wt, g	104.66	49.16	52.01									
Dried Sample Wt, g	0.23	0.11	0.11									
Salt Wt, g	0.057	0.027	0.028									
Particulates Wt, g	0.173	0.083	0.082									
Particulates Conc. (g/L)	1.7	1.7	1.6									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5							
Tare No.	13	14	15	16	17							
Wet Sample + Tare Wt, g	113.98	120.17	144.98	156.34	124.10							
Dried Sample + Tare Wt, g	65.70	66.60	68.27	67.51	66.94							
Tare Wt, g	65.61	66.51	68.13	67.34	66.82							
Water Wt, g	48.28	53.57	76.71	88.83	57.16							
Dried Sample Wt, g	0.09	0.09	0.14	0.17	0.12							
Salt Wt, g	0.026	0.029	0.041	0.048	0.031							
Particulates Wt, g	0.064	0.061	0.099	0.122	0.089							
Particulates Conc. (g/L)	1.3	1.1	1.3	1.4	1.6							

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8				
Tare No.	18	24	25	26	27	28	29	30				
Wet Sample + Tare Wt, g	111.19	111.37	120.98	176.66	118.95	127.08	133.58	127.56				
Dried Sample + Tare Wt, g	67.55	67.66	67.90	67.28	65.89	66.40	68.80	67.59				
Tare Wt, g	67.47	67.57	67.80	67.02	65.77	66.27	68.66	67.45				
Water Wt, g	43.64	43.71	53.08	109.38	53.06	60.68	64.78	59.97				
Dried Sample Wt, g	0.08	0.09	0.1	0.26	0.12	0.13	0.14	0.14				
Salt Wt, g	0.024	0.024	0.029	0.059	0.029	0.033	0.035	0.032				
Particulates Wt, g	0.056	0.066	0.071	0.201	0.091	0.097	0.105	0.108				
Particulates Conc. (g/L)	1.3	1.5	1.3	1.8	1.7	1.6	1.6	1.8				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	39	40	41	42	43	44	45	46	47			
Wet Sample + Tare Wt, g	110.58	114.77	119.47	143.31	123.70	128.65	135.10	124.23	124.00			
Dried Sample + Tare Wt, g	68.16	66.60	66.13	67.50	67.68	66.02	67.96	66.11	67.07			
Tare Wt, g	68.06	66.48	66.02	67.33	67.57	65.89	67.81	65.97	66.94			
Water Wt, g	42.42	48.17	53.34	75.81	56.02	62.63	67.14	58.12	56.93			
Dried Sample Wt, g	0.1	0.12	0.11	0.17	0.11	0.13	0.15	0.14	0.13			
Salt Wt, g	0.023	0.026	0.029	0.041	0.030	0.034	0.036	0.031	0.031			
Particulates Wt, g	0.077	0.094	0.081	0.129	0.080	0.096	0.114	0.109	0.099			
Particulates Conc. (g/L)	1.8	1.9	1.5	1.7	1.4	1.5	1.7	1.9	1.7			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	77	78	79	80	81	82	83	84	85	86		
Wet Sample + Tare Wt, g	112.29	120.46	121.09	136.19	123.64	132.09	132.56	130.35	135.23	156.33		
Dried Sample + Tare Wt, g	67.65	67.82	67.90	67.56	67.69	67.50	67.39	67.45	67.77	68.10		
Tare Wt, g	67.56	67.71	67.79	67.42	67.58	67.37	67.26	67.33	67.63	67.91		
Water Wt, g	44.64	52.64	53.19	68.63	55.95	64.59	65.17	62.9	67.46	88.23		
Dried Sample Wt, g	0.09	0.11	0.11	0.14	0.11	0.13	0.13	0.12	0.14	0.19		
Salt Wt, g	0.024	0.028	0.029	0.037	0.030	0.035	0.035	0.034	0.036	0.048		
Particulates Wt, g	0.066	0.082	0.081	0.103	0.080	0.095	0.095	0.086	0.104	0.142		
Particulates Conc. (g/L)	1.5	1.5	1.5	1.5	1.4	1.5	1.5	1.4	1.5	1.6		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	---	97	98	99	100	101	102	103	104	105		
Wet Sample + Tare Wt, g	---	118.34	136.08	123.48	118.94	121.65	129.25	125.95	127.79	123.07		
Dried Sample + Tare Wt, g	---	67.48	67.56	67.93	67.59	67.4	67.96	67.71	67.54	67.68		
Tare Wt, g	---	67.35	67.42	67.83	67.49	67.29	67.86	67.59	67.43	67.55		
Water Wt, g	---	50.86	68.52	55.55	51.35	54.25	61.29	58.24	60.25	55.39		
Dried Sample Wt, g	---	0.13	0.14	0.1	0.1	0.11	0.1	0.12	0.11	0.13		
Salt Wt, g	---	0.027	0.037	0.030	0.028	0.029	0.033	0.031	0.033	0.030		
Particulates Wt, g	---	0.103	0.103	0.070	0.072	0.081	0.067	0.089	0.077	0.100		
Particulates Conc. (g/L)	---	2.0	1.5	1.3	1.4	1.5	1.1	1.5	1.3	1.8		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

5 day (120 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	105	106	107	108	109	110	111	112	113	114	
Wet Sample + Tare Wt, g	---	114.21	111.60	114.04	117.35	110.06	116.07	115.34	113.67	112.49	115.17	
Dried Sample + Tare Wt, g	---	66.24	67.30	66.37	67.78	68.27	66.30	65.50	67.80	65.47	68.30	
Tare Wt, g	---	66.14	67.21	66.27	67.68	68.17	66.20	65.41	67.71	65.37	68.19	
Water Wt, g	---	47.97	44.3	47.67	49.57	41.79	49.77	49.84	45.87	47.02	46.87	
Dried Sample Wt, g	---	0.1	0.09	0.1	0.1	0.1	0.1	0.09	0.09	0.1	0.11	
Salt Wt, g	---	0.026	0.024	0.026	0.027	0.023	0.027	0.027	0.025	0.025	0.025	
Particulates Wt, g	---	0.074	0.066	0.074	0.073	0.077	0.073	0.063	0.065	0.075	0.085	
Particulates Conc. (g/L)	---	1.5	1.5	1.6	1.5	1.9	1.5	1.3	1.4	1.6	1.8	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	116	117	118	119	120	121	122	123	28	83	
Wet Sample + Tare Wt, g	---	104.61	108.86	104.67	111.06	113.37	116.28	116.11	114.23	113.22	127.06	
Dried Sample + Tare Wt, g	---	68.33	66.87	66.06	67.66	66.26	68.18	67.42	65.76	66.38	67.41	
Tare Wt, g	---	68.27	66.79	65.99	67.59	66.17	68.1	67.32	65.66	66.29	67.28	
Water Wt, g	---	36.28	41.99	38.61	43.4	47.11	48.1	48.69	48.47	46.84	59.65	
Dried Sample Wt, g	---	0.06	0.08	0.07	0.07	0.09	0.08	0.1	0.1	0.09	0.13	
Salt Wt, g	---	0.020	0.023	0.021	0.023	0.025	0.026	0.026	0.026	0.025	0.032	
Particulates Wt, g	---	0.040	0.057	0.049	0.047	0.065	0.054	0.074	0.074	0.065	0.098	
Particulates Conc. (g/L)	---	1.1	1.4	1.3	1.1	1.4	1.1	1.5	1.5	1.4	1.6	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	---	39	17	6	40	42	16	27	11	46	
Wet Sample + Tare Wt, g	---	---	120.36	118.95	122.37	122.47	125.65	132.90	129.60	123.84	129.94	
Dried Sample + Tare Wt, g	---	---	68.16	66.90	68.20	66.60	67.44	67.45	65.90	65.91	66.12	
Tare Wt, g	---	---	68.10	66.82	68.10	66.51	67.34	67.33	65.79	65.80	65.98	
Water Wt, g	---	---	52.2	52.05	54.17	55.87	58.21	65.45	63.7	57.93	63.82	
Dried Sample Wt, g	---	---	0.06	0.08	0.1	0.09	0.1	0.12	0.11	0.11	0.14	
Salt Wt, g	---	---	0.028	0.028	0.029	0.030	0.031	0.035	0.034	0.031	0.035	
Particulates Wt, g	---	---	0.032	0.052	0.071	0.060	0.069	0.085	0.076	0.079	0.105	
Particulates Conc. (g/L)	---	---	0.6	1.0	1.3	1.1	1.2	1.3	1.2	1.4	1.7	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3									
Tare No.	8	9	10									
Dry Particulates + Filter Paper Wt, g	0.0759	0.0859	0.0841									
Filter Paper Wt, g	0.0726	0.0807	0.0790									
Dry Particulates Wt, g	0.0033	0.0052	0.0051									
Volume (mL)	102	112	111									
Particulates TSS Conc. (mg/L)	32.4	46.4	45.9									
Turbidity (NTU)	21	29	28									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5							
Tare No.	19	20	21	22	23							
Dry Particulates + Filter Paper Wt, g	0.0751	0.0732	0.0743	0.0762	0.0750							
Filter Paper Wt, g	0.0731	0.0709	0.0708	0.0725	0.0704							
Dry Particulates Wt, g	0.002	0.0023	0.0035	0.0037	0.0046							
Volume (mL)	122	117	121	120	119							
Particulates TSS Conc. (mg/L)	16.4	19.7	28.9	30.8	38.7							
Turbidity (NTU)	10	14	15	17	20							

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8				
Tare No.	31	32	33	34	35	36	37	38				
Dry Particulates + Filter Paper Wt, g	0.0810	0.0730	0.0726	0.0733	0.0837	0.0714	0.0835	0.0778				
Filter Paper Wt, g	0.0789	0.0701	0.0703	0.0703	0.0809	0.0692	0.0756	0.0729				
Dry Particulates Wt, g	0.0021	0.0029	0.0023	0.003	0.0028	0.0022	0.0079	0.0049				
Volume (mL)	121	116	119	121	116	120	125	124				
Particulates TSS Conc. (mg/L)	17.4	25.0	19.3	24.8	24.1	18.3	63.2	39.5				
Turbidity (NTU)	8.0	7.5	7.0	7.4	6.5	9.0	25	20				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	48	49	50	51	52	53	54	55	56			
Dry Particulates + Filter Paper Wt, g	0.0816	0.0745	0.0730	0.0713	0.0801	0.0846	0.0740	0.0773	0.0810			
Filter Paper Wt, g	0.0787	0.0720	0.0695	0.0688	0.0754	0.0812	0.0695	0.0723	0.0753			
Dry Particulates Wt, g	0.0029	0.0025	0.0035	0.0025	0.0047	0.0034	0.0045	0.005	0.0057			
Volume (mL)	111	115	121	122	125	121	124	141	130			
Particulates TSS Conc. (mg/L)	26.1	21.7	28.9	20.5	37.6	28.1	36.3	35.5	43.8			
Turbidity (NTU)	6.8	7.3	7.8	6.7	7.5	6.8	11	10	18			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	67	68	69	70	71	72	73	74	75	76		
Dry Particulates + Filter Paper Wt, g	0.0784	0.0822	0.0719	0.0732	0.0759	0.0754	0.0764	0.0758	0.0761	0.1088		
Filter Paper Wt, g	0.0757	0.0788	0.0691	0.0703	0.0722	0.0718	0.0720	0.0723	0.0721	0.0683		
Dry Particulates Wt, g	0.0027	0.0034	0.0028	0.0029	0.0037	0.0036	0.0044	0.0035	0.004	0.0405		
Volume (mL)	132	133	135	135	139	140	139.5	141	141	133		
Particulates TSS Conc. (mg/L)	20.5	25.6	20.7	21.5	26.6	25.7	31.5	24.8	28.4	304.5		
Turbidity (NTU)	1.7	4.2	4.3	5.0	4.8	4.4	7.5	5.8	7.8	160		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	---	87	88	89	90	91	92	93	94	95		
Dry Particulates + Filter Paper Wt, g	---	0.0736	0.0765	0.0850	0.0853	0.0746	0.0765	0.0748	0.0739	0.0816		
Filter Paper Wt, g	---	0.0693	0.0722	0.0813	0.0814	0.0703	0.0721	0.0703	0.0691	0.0721		
Dry Particulates Wt, g	---	0.0043	0.0043	0.0037	0.0039	0.0043	0.0044	0.0045	0.0048	0.0095		
Volume (mL)	---	166	128	127	134	136	133	138	140	134		
Particulates TSS Conc. (mg/L)	---	25.9	33.6	29.1	29.1	31.6	33.1	32.6	34.3	70.9		
Turbidity (NTU)	---	6.9	8.1	7.5	7.8	8.1	9.2	8.6	11	30		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

5 day (120 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	96	97	98	99	100	101	103	102	104	105	
Dry Particulates + Filter Paper Wt, g	---	0.0738	0.0793	0.0814	0.0741	0.0711	0.0809	0.0743	0.0754	0.0840	0.0798	
Filter Paper Wt, g	---	0.0727	0.0782	0.0806	0.0723	0.0690	0.0790	0.0720	0.0729	0.0802	0.0707	
Dry Particulates Wt, g	---	0.0011	0.0011	0.0008	0.0018	0.0021	0.0019	0.0023	0.0025	0.0038	0.0091	
Volume (mL)	---	141	125	129	126	127	125	128	124	125	132	
Particulates TSS Conc. (mg/L)	---	7.8	8.8	6.2	14.3	16.5	15.2	18.0	20.2	30.4	68.9	
Turbidity (NTU)	---	3.6	2.6	2.5	3.9	3.9	4.1	4.5	5.5	12	39	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	7	13	41	77	79	80	82	84	85	86	
Dry Particulates + Filter Paper Wt, g	---	0.0736	0.0766	0.0708	0.0710	0.0808	0.0825	0.0721	0.0780	0.0842	0.0734	
Filter Paper Wt, g	---	0.0724	0.0750	0.0686	0.0695	0.0786	0.0806	0.0703	0.0758	0.0806	0.0687	
Dry Particulates Wt, g	---	0.0012	0.0016	0.0022	0.0015	0.0022	0.0019	0.0018	0.0022	0.0036	0.0047	
Volume (mL)	---	129	130	135	140	139	148	141	134	135	128	
Particulates TSS Conc. (mg/L)	---	9.3	12.3	16.3	10.7	15.8	12.8	12.8	16.4	26.7	36.7	
Turbidity (NTU)	---	3.3	2.7	3.3	3.8	3.1	2.6	4.0	3.1	8.5	17	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10117	CST Test #:	1
Test Start Date:	1/23/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	---	29	25	44	81	4	18	14	15	5	
Dry Particulates + Filter Paper Wt, g	---	---	0.0829	0.0762	0.0837	0.0840	0.0767	0.0743	0.0738	0.0870	0.0816	
Filter Paper Wt, g	---	---	0.0796	0.0722	0.0802	0.0802	0.0725	0.0692	0.0683	0.0798	0.0705	
Dry Particulates Wt, g	---	---	0.0033	0.004	0.0035	0.0038	0.0042	0.0051	0.0055	0.0072	0.0111	
Volume (mL)	---	---	144	140	143	147	142	147	154	148	142	
Particulates TSS Conc. (mg/L)	---	---	22.9	28.6	24.5	25.9	29.6	34.7	35.7	48.6	78.2	
Turbidity (NTU)	---	---	6.7	7.4	7.2	9.8	8.5	9.9	12	19	45	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-10117	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50266		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10117	---	Moist, dark gray silt	41.6

Notes: Temperature of Drying : 110° Celsius

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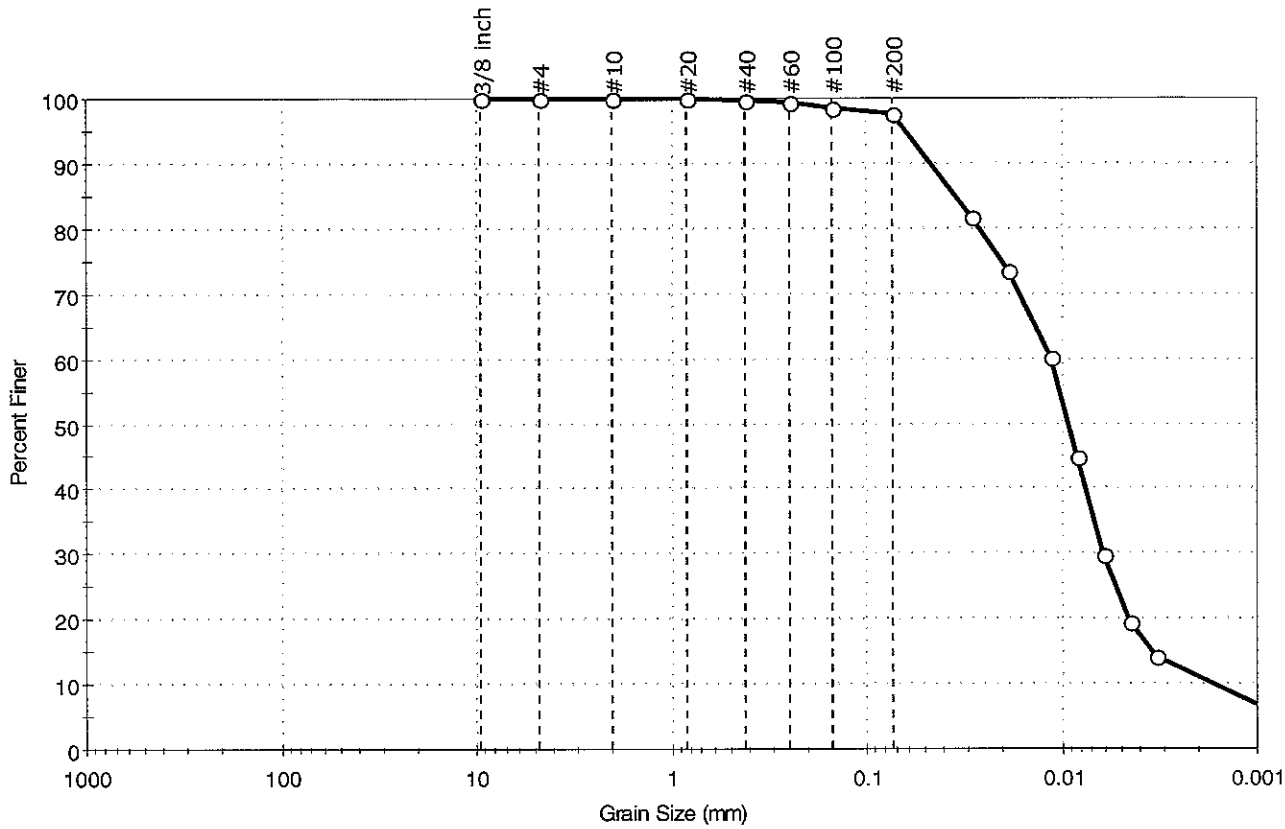
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-10117	Test Date: 04/09/07	Checked By:	jdt
Depth : ---	Test Id: 109690		
Test Comment: ---			
Sample Description: Moist, dark gray silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
–	0.0	2.5	97.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	99		
#100	0.15	98		
#200	0.074	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0292	82		
---	0.0188	73		
---	0.0113	60		
---	0.0085	45		
---	0.0062	30		
---	0.0044	19		
---	0.0033	14		
---	0.0008	5		

Coefficients

D_{85} = 0.0355 mm	D_{30} = 0.0062 mm
D_{60} = 0.0113 mm	D_{15} = 0.0034 mm
D_{50} = 0.0093 mm	D_{10} = 0.0017 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (27))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

printed 5/23/2007 9:34:42 AM

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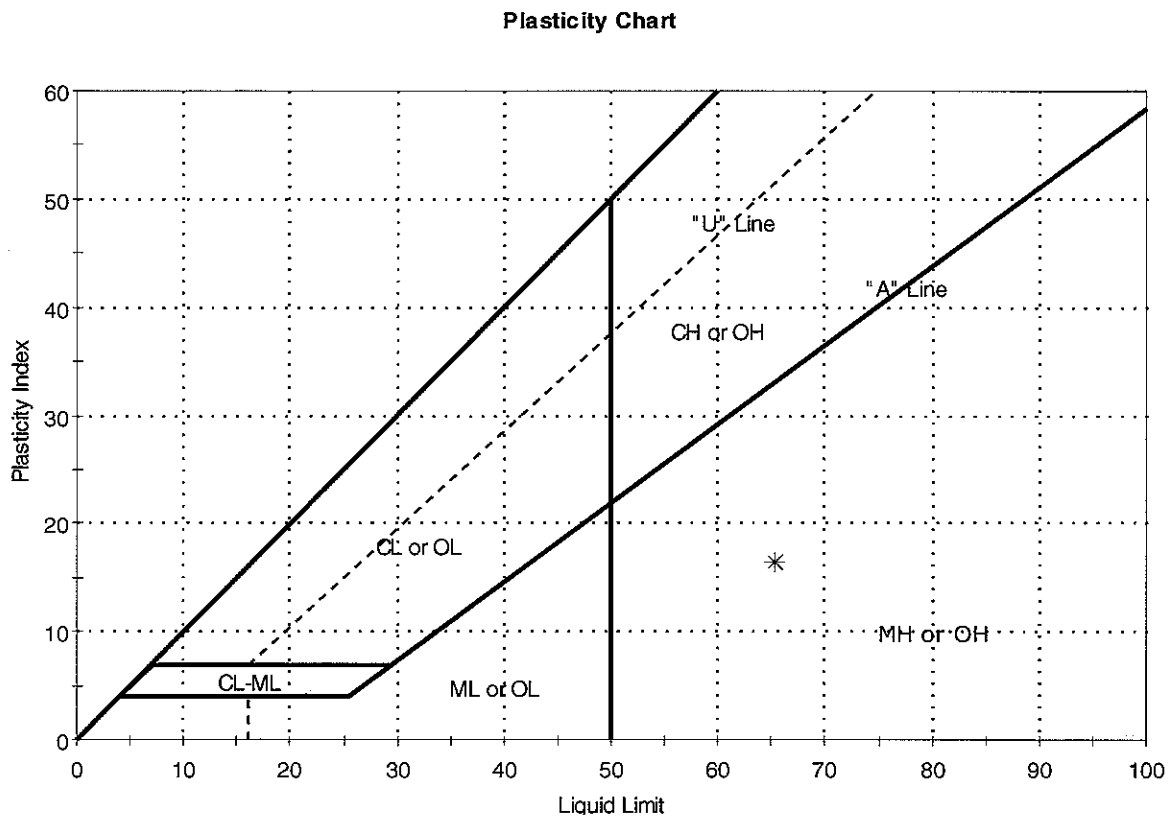
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-10117	Test Date:	04/18/07	Checked By:	jdt
Depth :	---	Test Id:	109707		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10117	---	---	42	65	49	16	0	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: MEDIUM
Dilentancy: RAPID
Toughness: LOW

printed 5/23/2007 9:34:54 AM

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	rmt
Sample ID:OL-STA-10117		Test Date:	04/09/07	Checked By:	jdt
Depth : ---		Test Id:	109741		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10117	---	Moist, dark gray silt	2.57

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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a subsidiary of Geocomp Corporation

Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/04/07
Tested by:	md
Checked by:	jdt

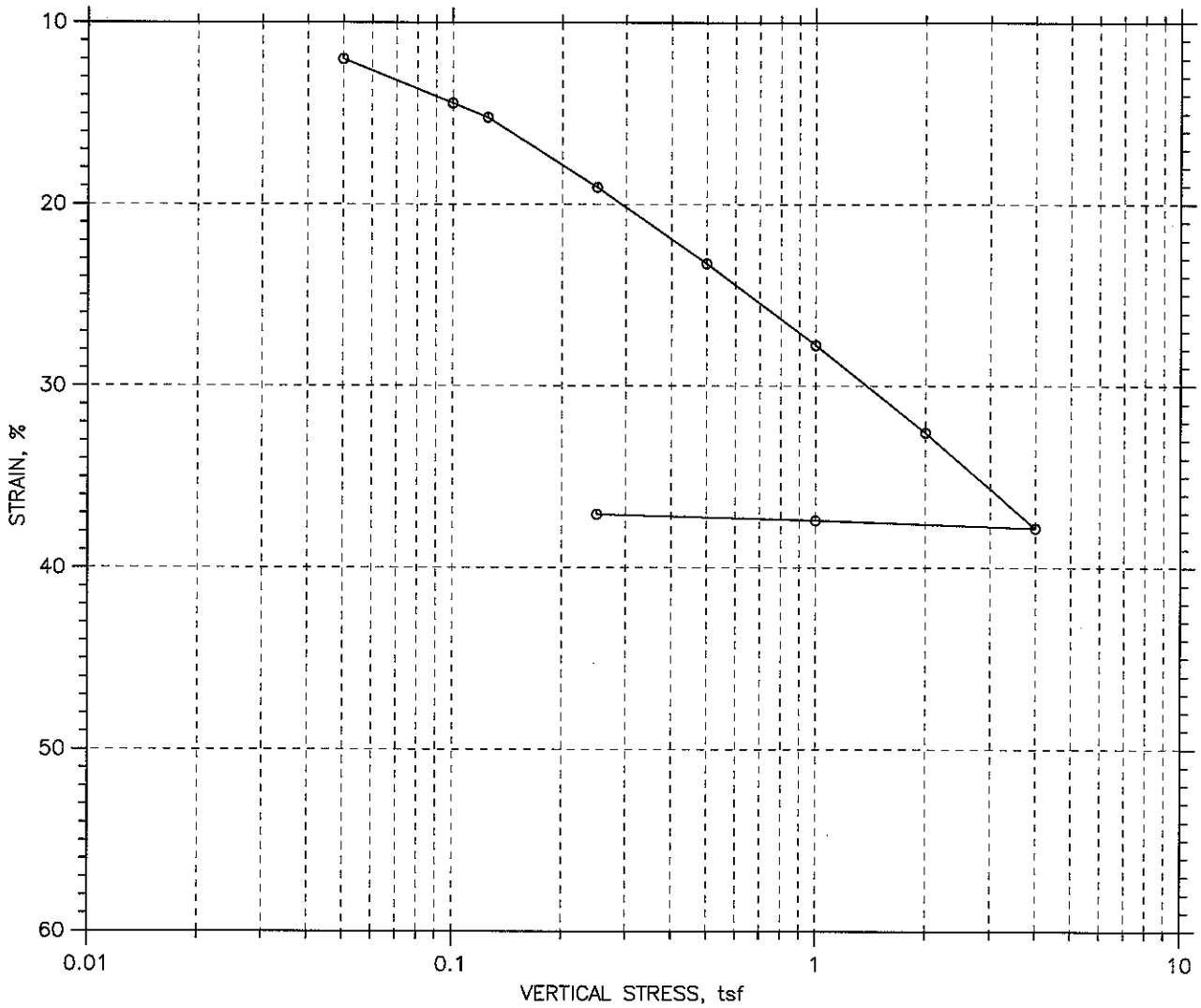
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10117	Moist, dark gray silt	0.35	0.29	0.30	0.33	0.32

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	146.46	73.80
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	33.07	52.54
Compression Index: ---				Saturation, %	97.72	92.35
Diameter: 7.65 in		Height: 3.66 in		Void Ratio	3.85	2.05
LL: 65	PL: 49	PI: 16	GS: 2.57			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

Fri, 04-MAY-2007 13:26:24

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10117
Test No.: CST1 (LC-7)

Location: Syracuse, NY
Tested By: md
Test Date: 04/01/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: ---

Measured Specific Gravity: 2.57
Initial Void Ratio: 3.85
Final Void Ratio: 2.05

Liquid Limit: 65
Plastic Limit: 49
Plasticity Index: 16

Initial Height: 3.66 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	173	RING		
Wt. Container + Wet Soil, gm	197.75	3599	2538	209.28
Wt. Container + Dry Soil, gm	120.94	1460.3	1460.3	123.81
Wt. Container, gm	68.46	0	0	8
Wt. Dry Soil, gm	52.48	1460.3	1460.3	115.81
Water Content, %	146.36	146.46	73.80	73.80
Void Ratio	---	3.85	2.05	---
Degree of Saturation, %	---	97.72	92.35	---
Dry Unit Weight, pcf	---	33.069	52.537	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10117
Test No.: CST1 (LC-7)

Location: Syracuse, NY
Tested By: md
Test Date: 04/01/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: ---

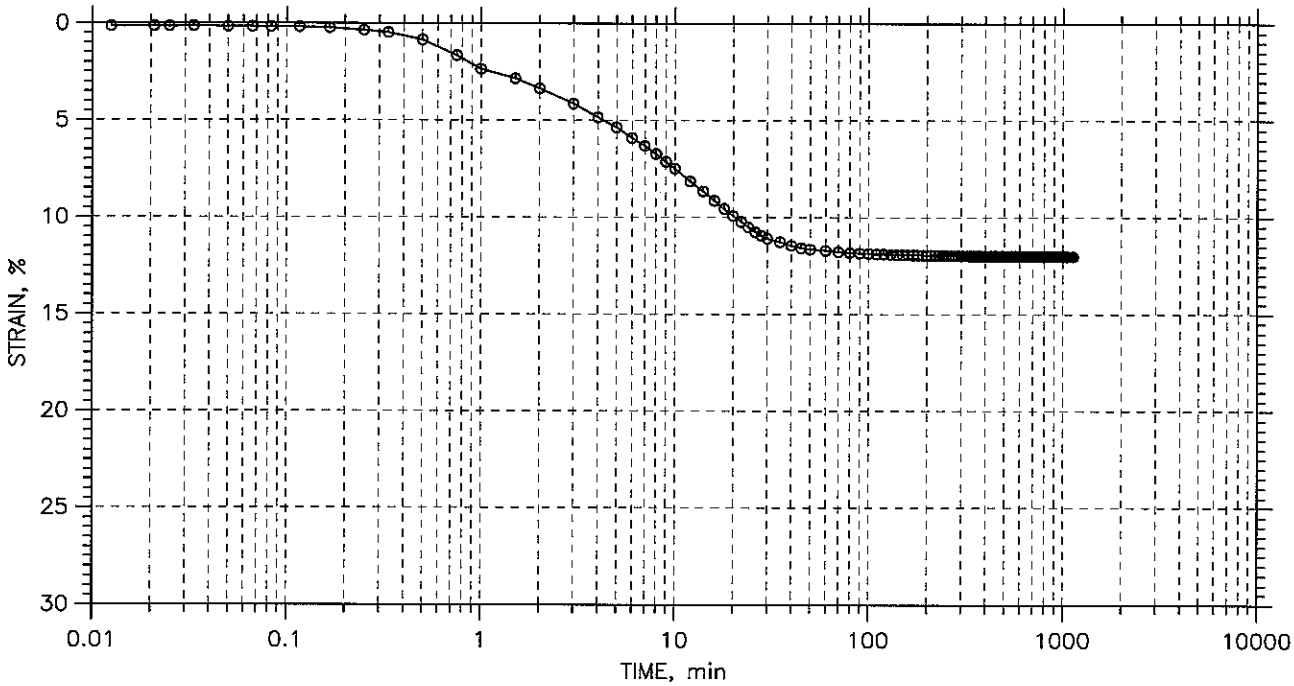
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.05	0.4394	3.269	12.01	6.6	0.0	1.46e-003	0.00e+000	1.46e-003
2	0.1	0.5284	3.151	14.44	3.7	4.1	2.21e-003	2.04e-003	2.12e-003
3	0.125	0.5573	3.113	15.23	6.9	5.2	1.15e-003	1.53e-003	1.31e-003
4	0.25	0.6976	2.927	19.06	2.1	0.0	3.60e-003	0.00e+000	3.60e-003
5	0.5	0.8513	2.723	23.26	1.4	0.0	4.84e-003	0.00e+000	4.84e-003
6	1	1.016	2.505	27.75	1.0	1.0	6.22e-003	6.12e-003	6.17e-003
7	2	1.191	2.272	32.55	0.8	0.7	7.01e-003	7.34e-003	7.17e-003
8	4	1.384	2.017	37.82	0.7	0.5	6.19e-003	8.44e-003	7.14e-003
9	1	1.368	2.038	37.39	0.0	0.0	9.07e-002	0.00e+000	9.07e-002
10	0.25	1.356	2.054	37.06	0.1	0.1	4.32e-002	5.30e-002	4.76e-002

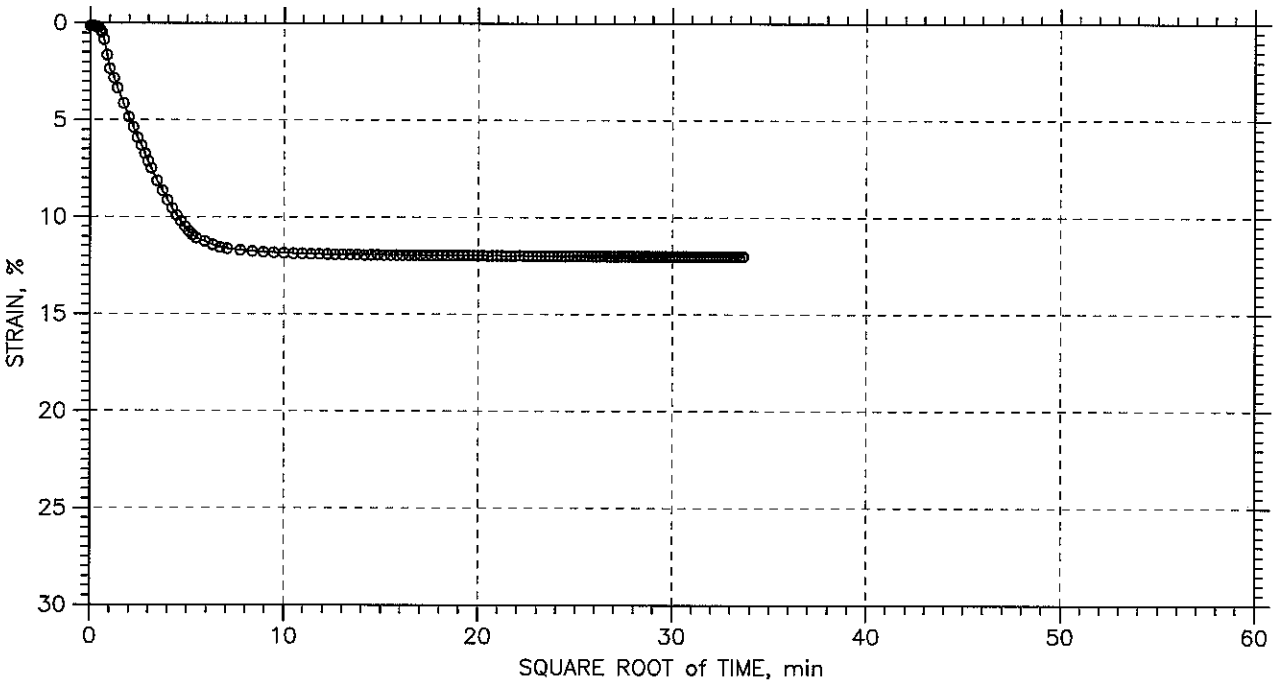
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

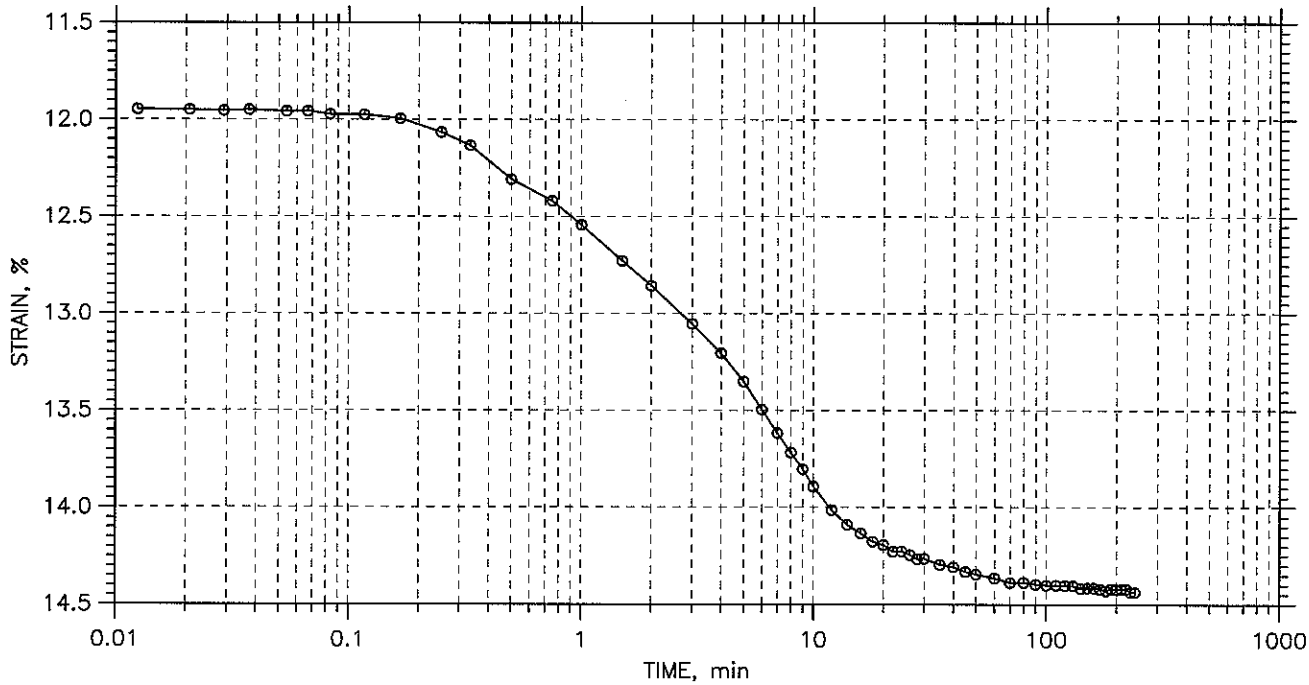
Fri, 04-MAY-2007 13:26:27

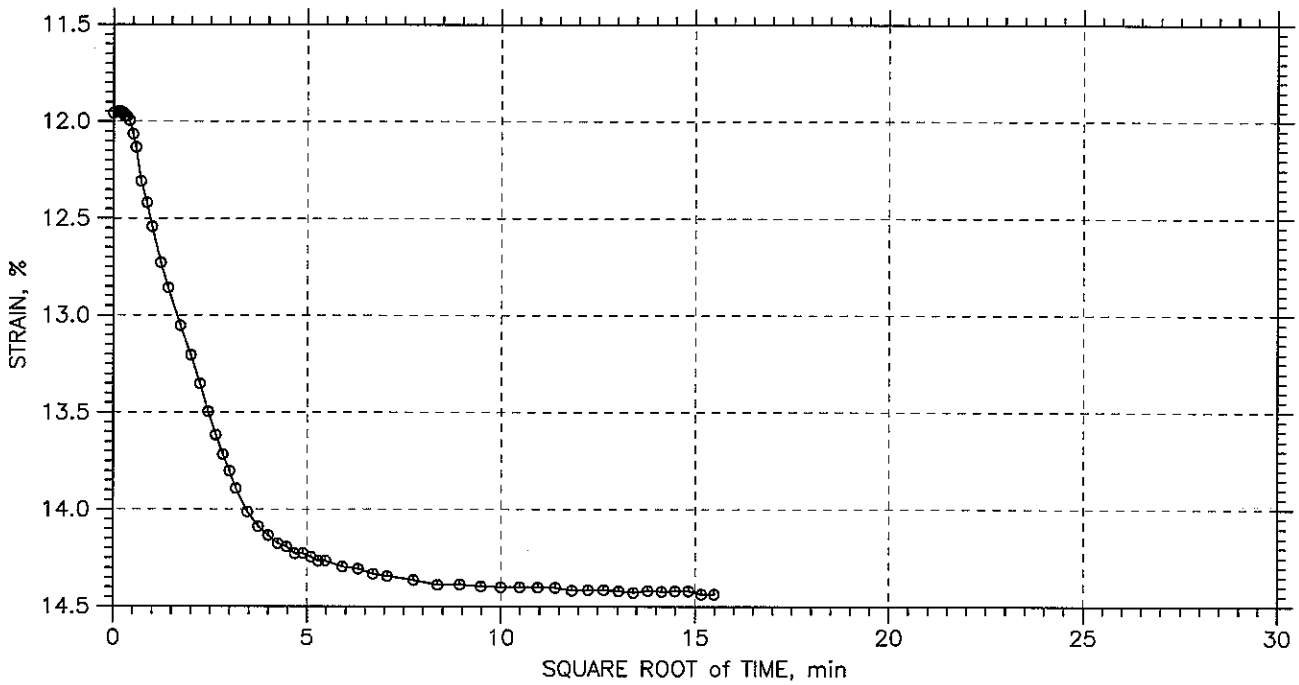
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

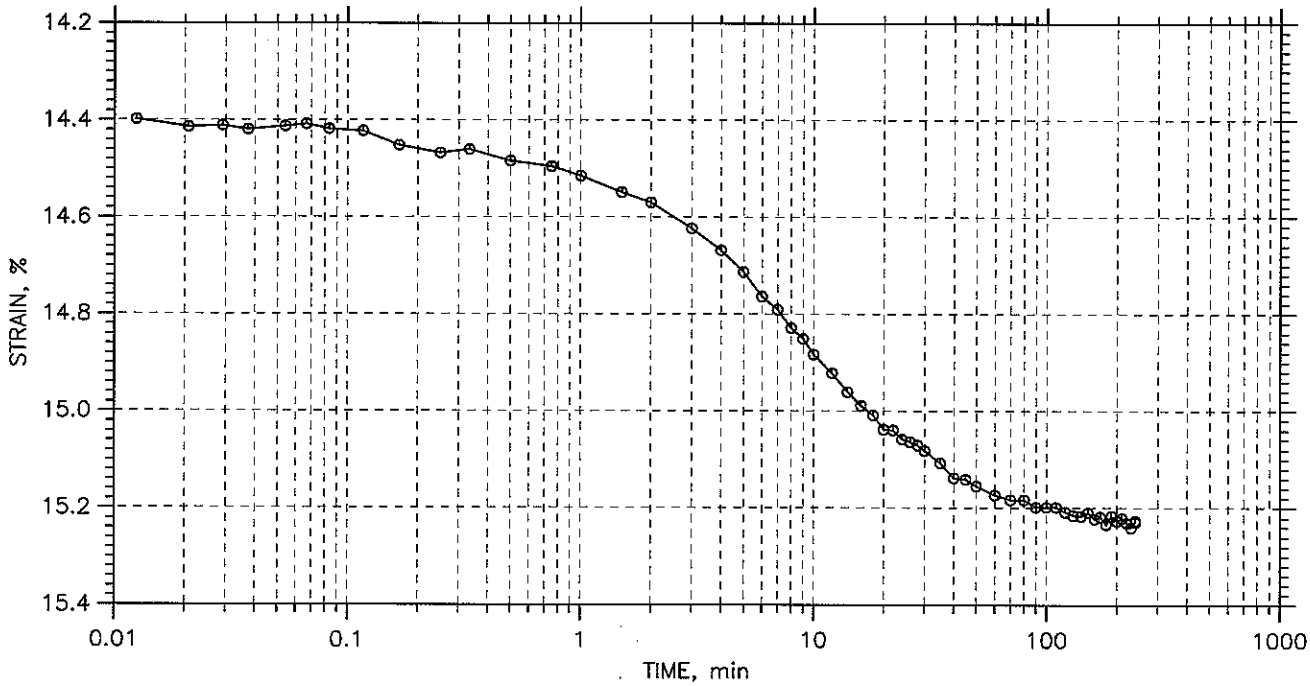
Fri, 04-MAY-2007 13:26:31

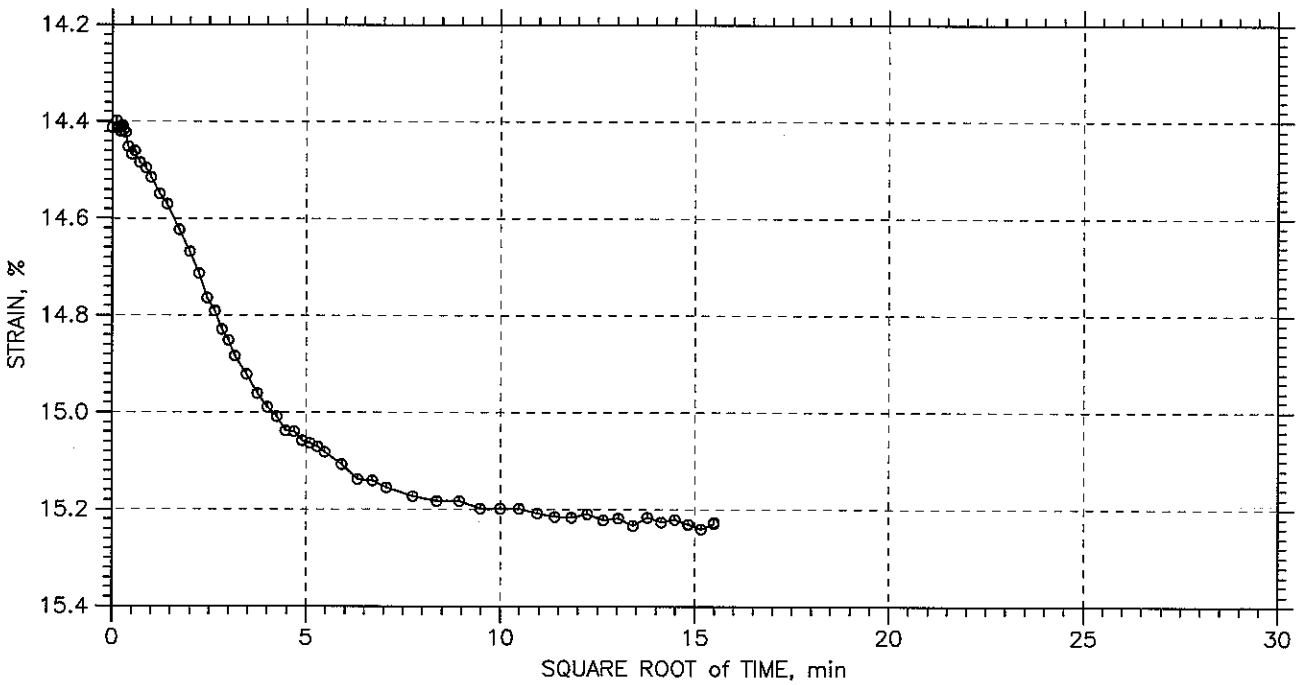
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

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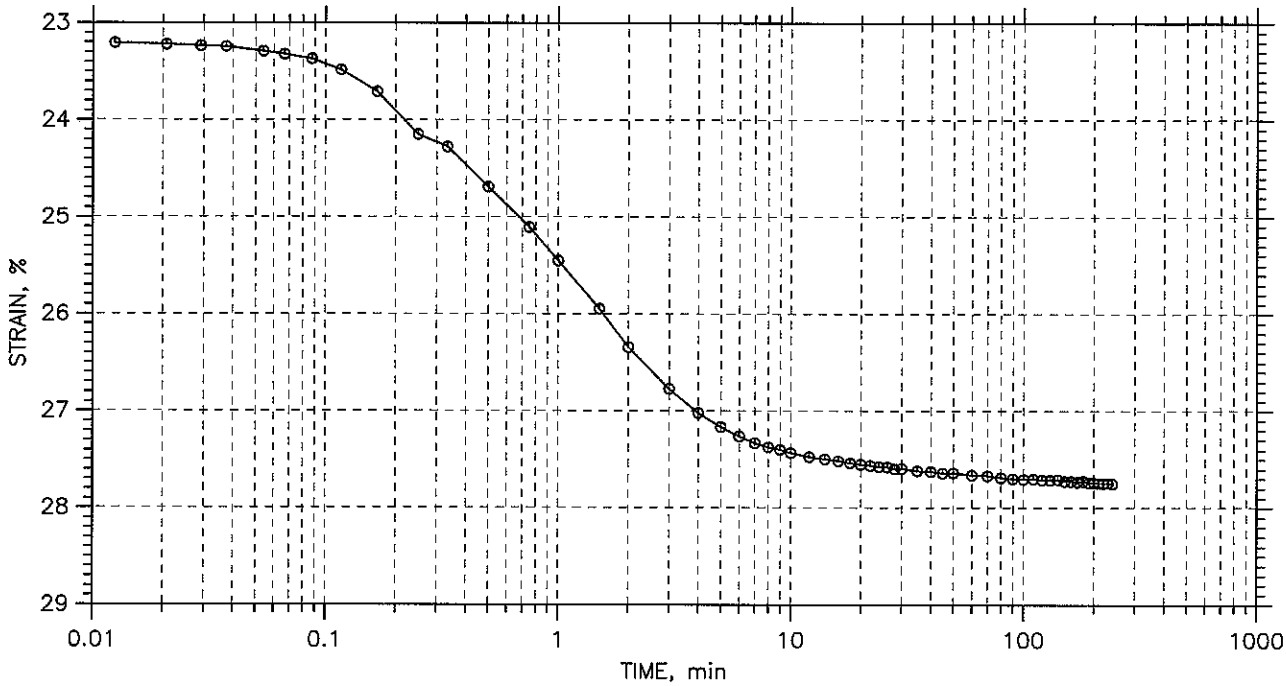
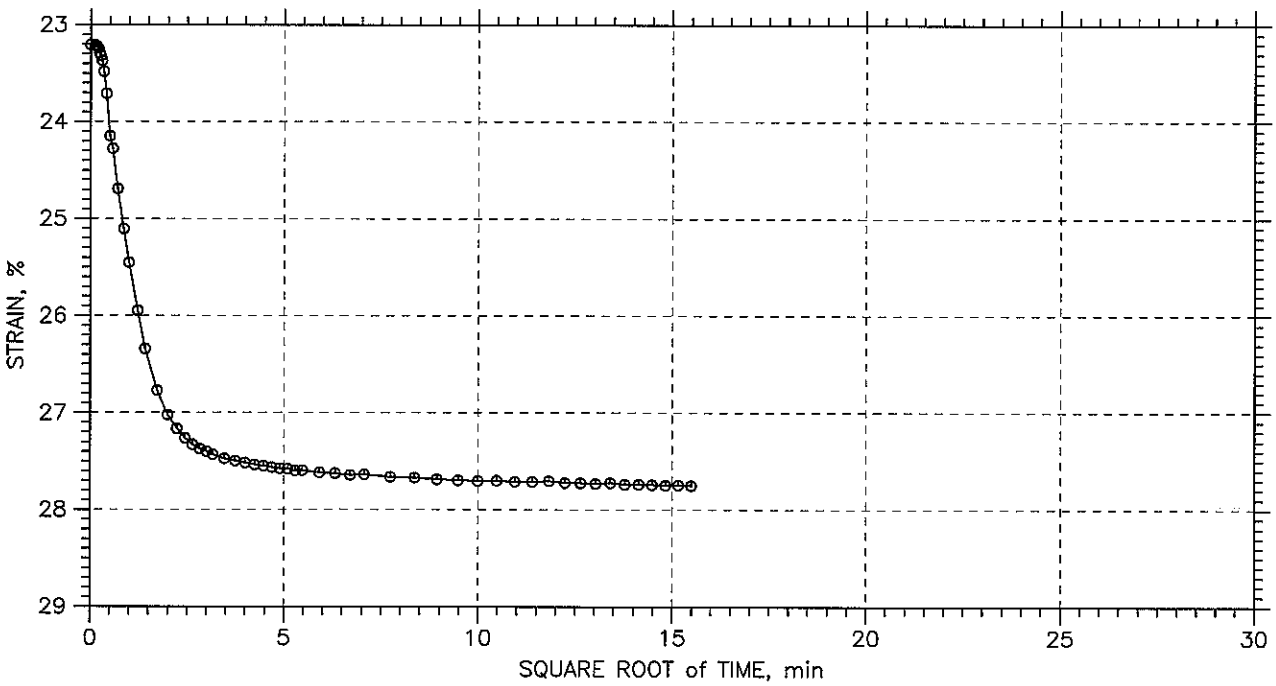
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

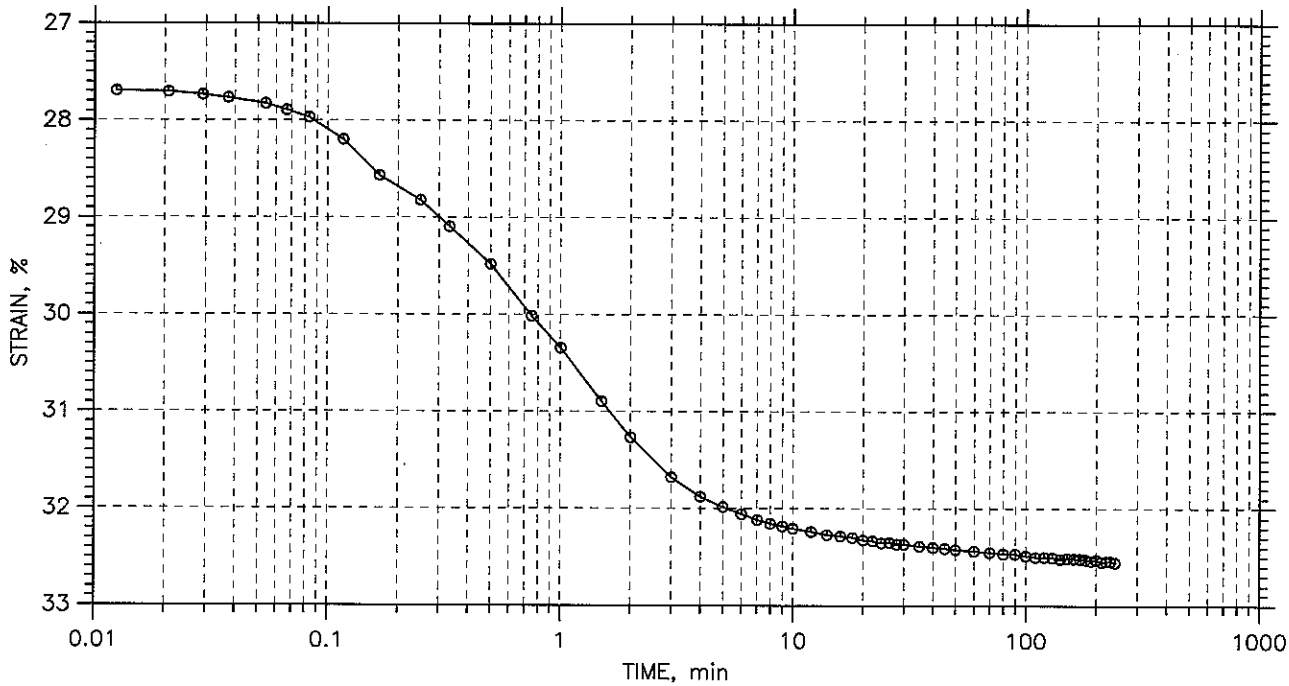
Fri, 04-MAY-2007 13:26:44

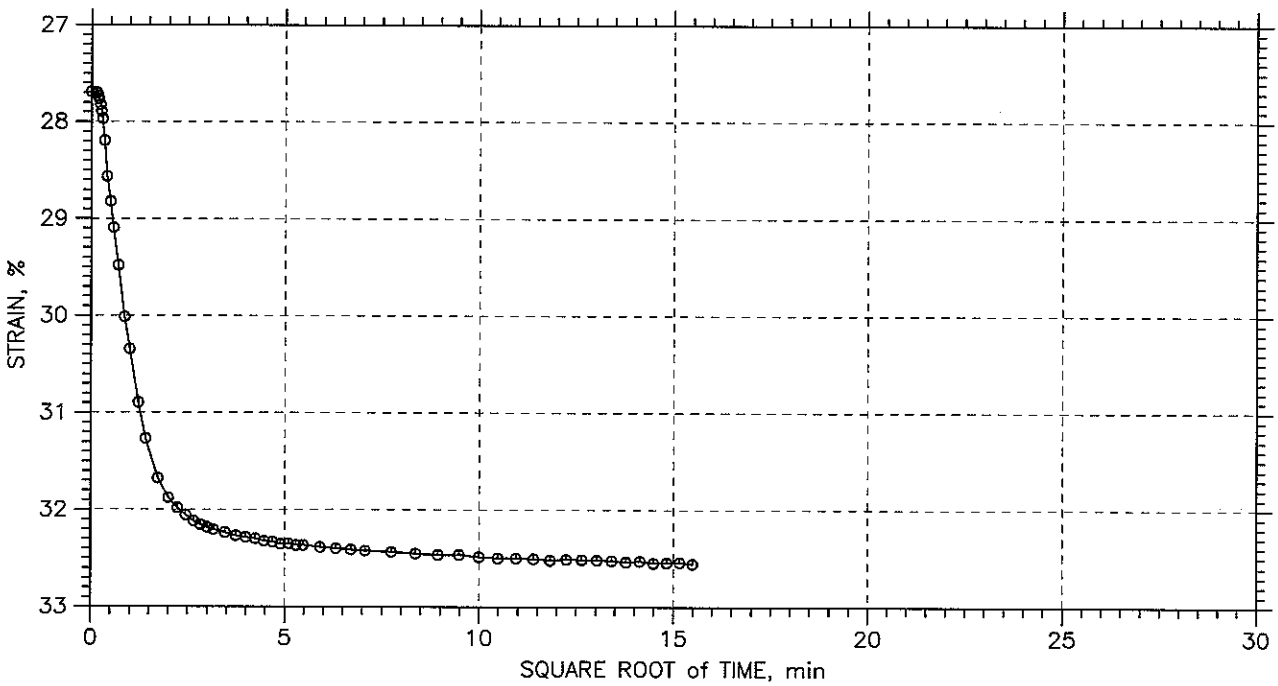
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

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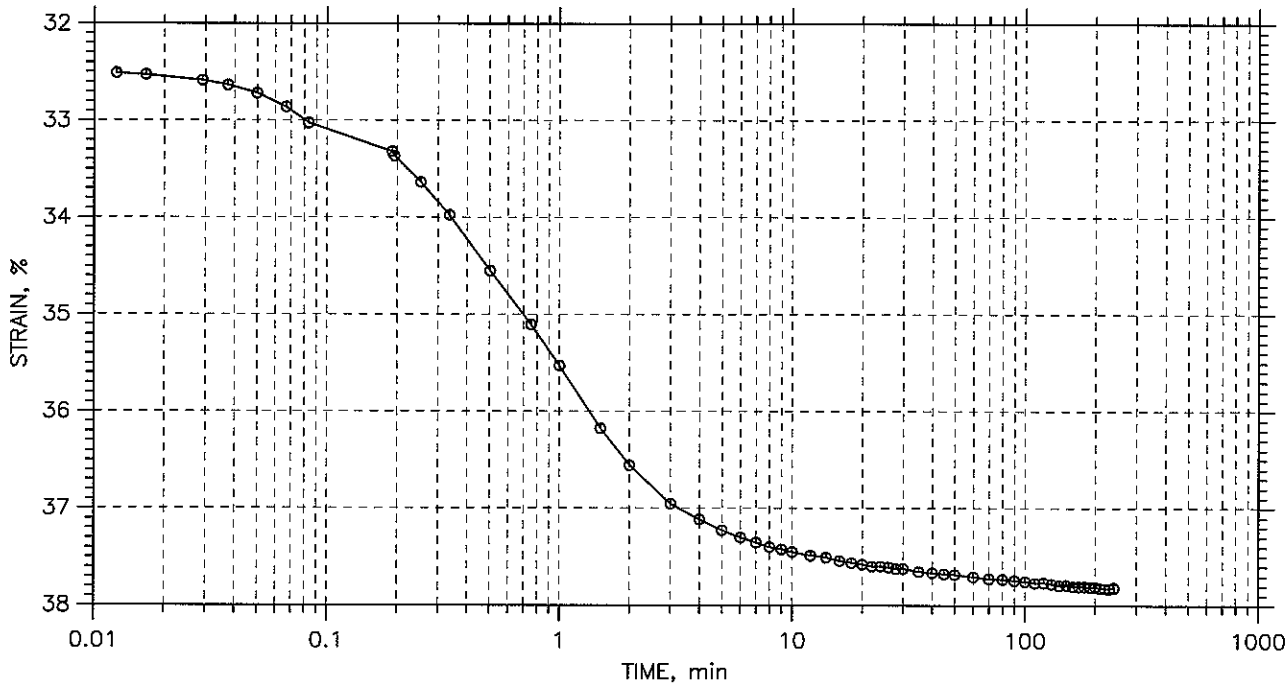
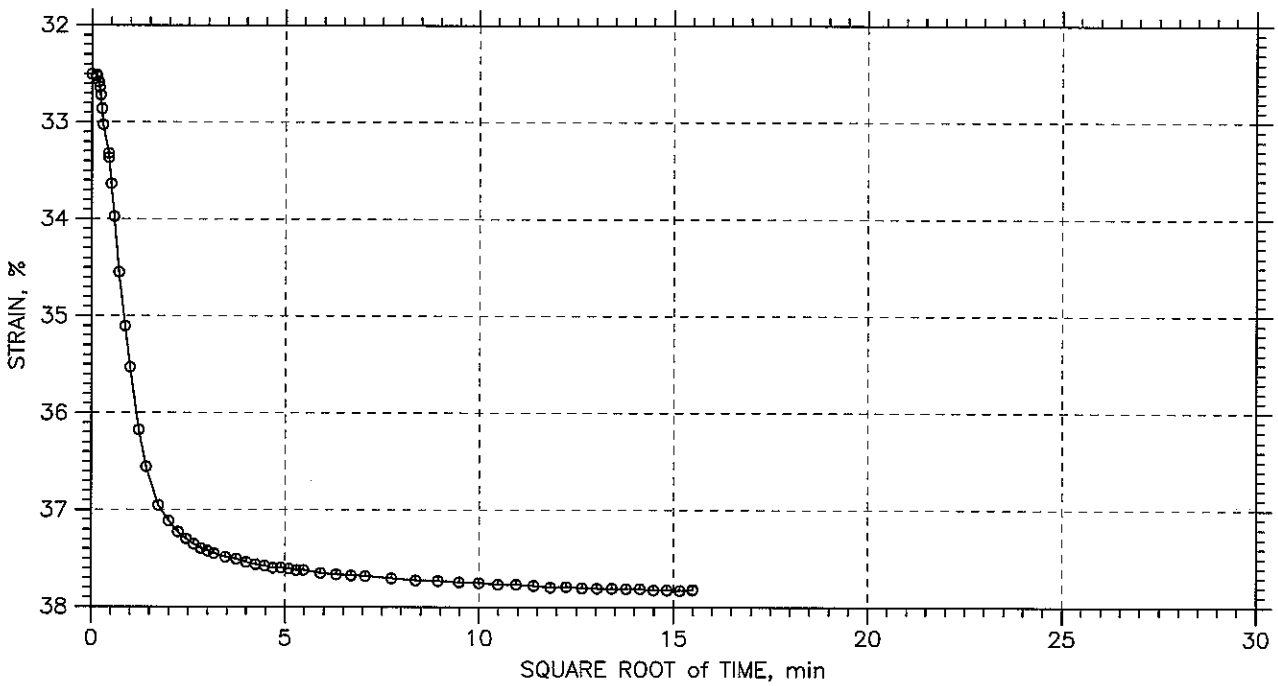
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

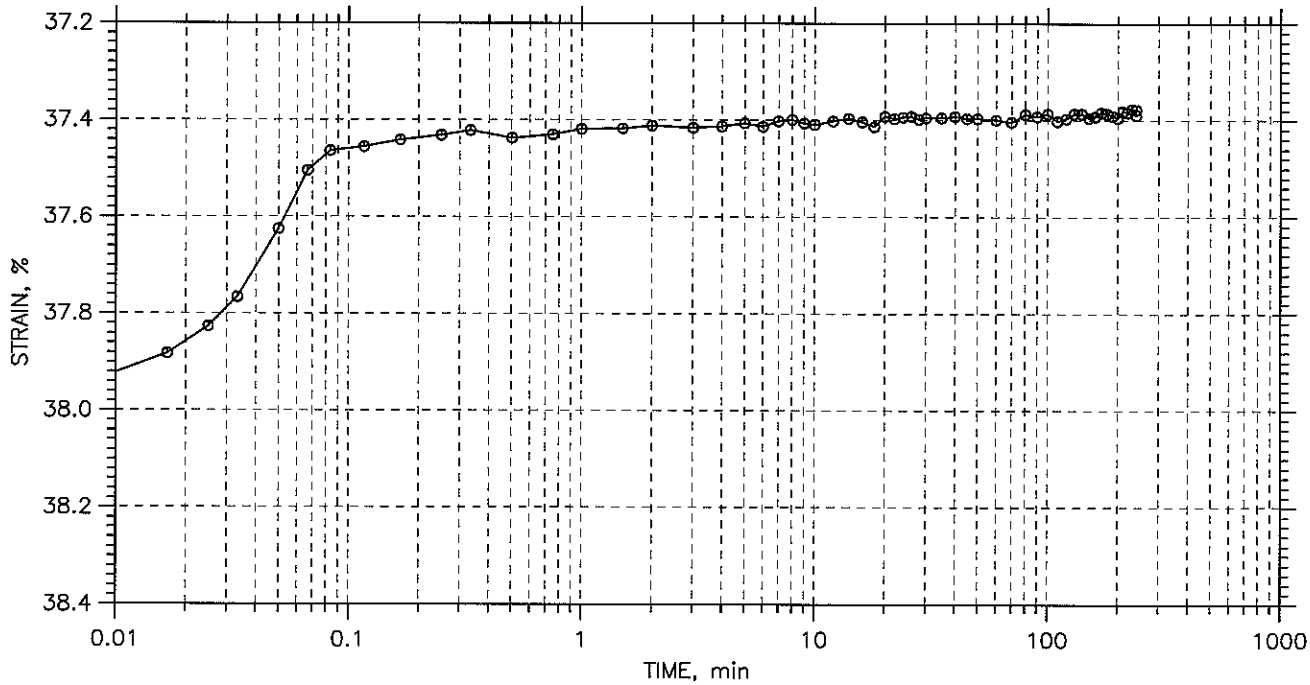
Fri, 04-MAY-2007 13:26:51

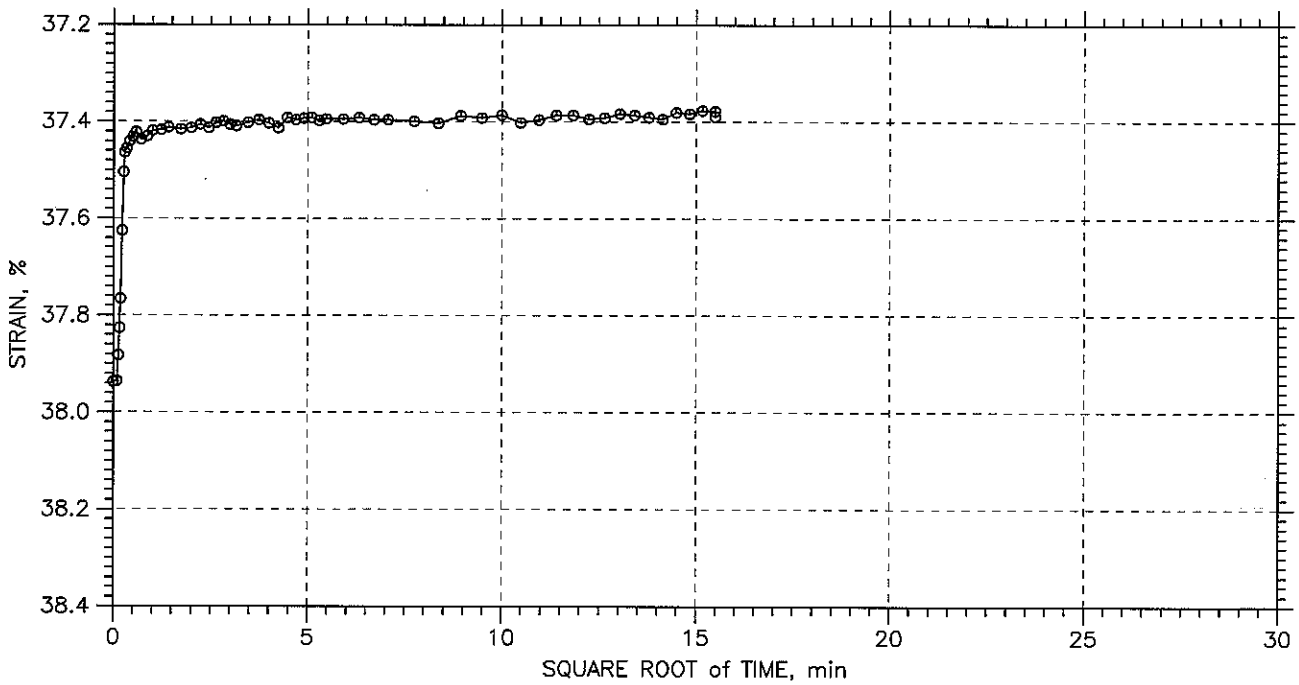
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

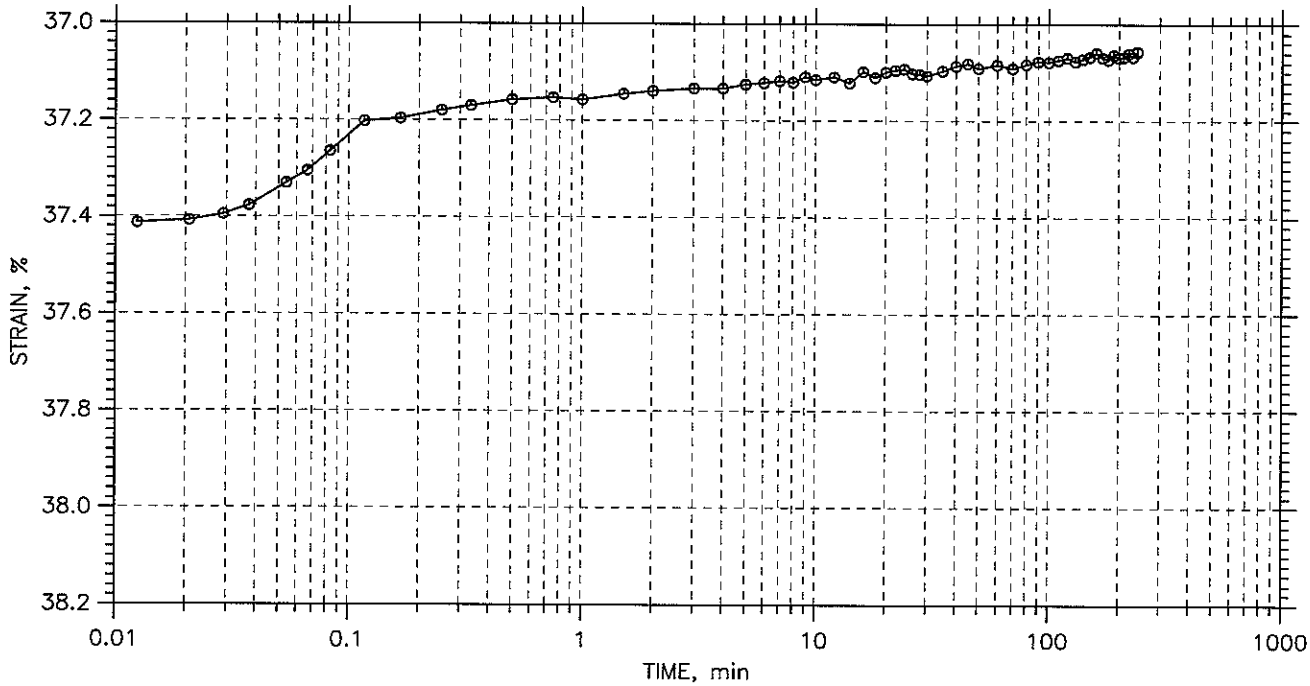
Fri, 04-MAY-2007 13:26:55

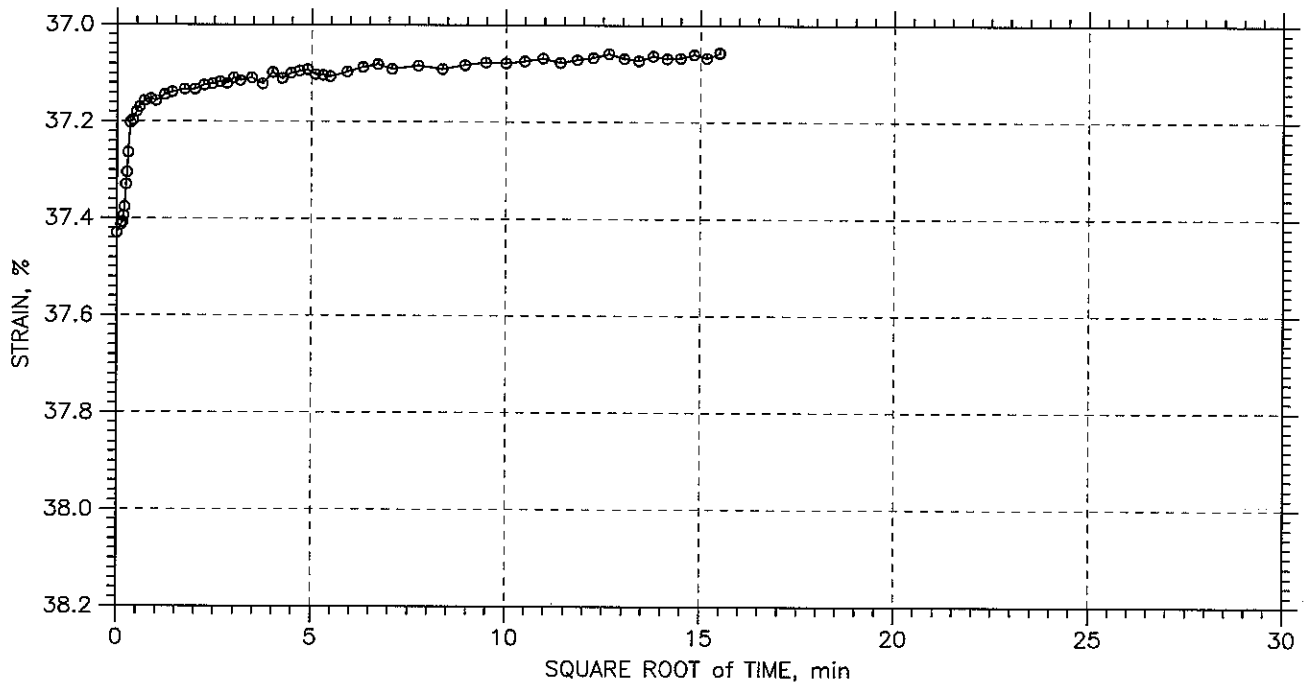
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10117	Test Date: 04/01/07	Depth: ---
	Test No.: CST1 (LC-7)	Sample Type: Column	Elevation: ---
	Description: Moist, dark gray silt		
	Remarks: ---		

Fri, 04-MAY-2007 13:27:34

GeoTesting express
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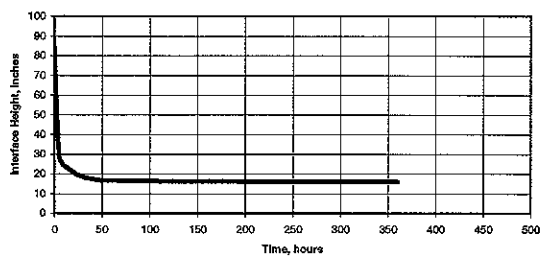
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
02/14/07	8:35 AM	0	0.00	84.4	84.4		
	8:40 AM	5	0.08		83.0		
	8:45 AM	10	0.17		80.9		
	8:50 AM	15	0.25		79.5		
	8:55 AM	20	0.33		78.2		
	9:00 AM	25	0.42		77.0		
	9:05 AM	30	0.50		75.8		
	9:12 AM	37	0.62		74.1		
	9:17 AM	42	0.70		72.8		
	9:33 AM	58	0.97		69.1		
	9:43 AM	68	1.13	84.2	66.7		
	10:03 AM	88	1.47		62.6		
	10:28 AM	113	1.88		57.5		
	10:53 AM	138	2.30	83.7	52.5		
	11:13 AM	158	2.63		49.0		
	11:38 AM	183	3.05		44.4		
	12:08 PM	213	3.55		39.9		
	12:23 PM	228	3.80		37.6		
	12:58 PM	263	4.38		33.3		
	1:13 PM	278	4.63		31.5		
	1:38 PM	303	5.05		28.8		
	2:15 PM	340	5.67		27.4		
	2:40 PM	365	6.08		26.9		
	5:53 PM	558	9.30		24.4		
02/15/07	8:35 AM	1440	24.00		19.5		
	9:23 AM	1488	24.80		19.3		
	4:30 PM	1915	31.92		18.1		
02/16/07	8:00 AM	2845	47.42	79.7	16.8		
	2:38 PM	3243	54.05		16.6		
	4:45 PM	3370	56.17		16.6		
02/19/07	8:35 AM	7200	120.00	76.1	16.2		
	4:35 PM	7680	128.00		16.2		
02/20/07	11:35 AM	8820	147.00	76.10	16.20		
02/22/07	8:35 AM	11520	192.00	74.00	16.10		
02/24/07	1:30 PM	14695	244.9	74.00	16.10		
03/01/07	9:00 AM	21625	360.42	77.00	16.00		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	---									
Wet Sample + Tare Wt, g	138.40	130.71	138.62									
Dried Sample + Tare Wt, g	74.33	74.19	73.53									
Tare Wt, g	67.30	68.06	66.49									
Water Wt, g	64.07	56.52	65.09									
Dried Sample Wt, g	7.03	6.13	7.04									
Salt Wt, g	0.046	0.040	0.046									
Particulates Wt, g	6.984	6.090	6.994									
Particulates Conc. (g/L)	104.5	103.3	103.0									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into colu All sample ports clogged, unable to sample.

SAMPLE/PORT												
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2										
Tare No.	7	9										
Wet Sample + Tare Wt, g	106.24	118.41										
Dried Sample + Tare Wt, g	68.20	67.72										
Tare Wt, g	68.10	67.58										
Water Wt, g	38.04	50.69										
Dried Sample Wt, g	0.10	0.14										
Salt Wt, g	0.027	0.036										
Particulates Wt, g	0.073	0.104										
Particulates Conc. (g/L)	1.9	2.0										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4								
Tare No.	11	16	17	24								
Wet Sample + Tare Wt, g	105.29	111.46	112.48	116.27								
Dried Sample + Tare Wt, g	65.86	67.42	66.91	67.68								
Tare Wt, g	65.80	67.32	66.83	67.57								
Water Wt, g	39.43	44.04	45.57	48.59								
Dried Sample Wt, g	0.06	0.10	0.08	0.11								
Salt Wt, g	0.028	0.031	0.032	0.035								
Particulates Wt, g	0.032	0.069	0.048	0.075								
Particulates Conc. (g/L)	0.8	1.6	1.0	1.6								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7					
Tare No.	58	59	62	64	65	67	69					
Wet Sample + Tare Wt, g	107.12	124.13	106.45	115.22	114.84	121.67	123.99					
Dried Sample + Tare Wt, g	67.47	67.91	67.54	67.37	67.65	68.02	68.22					
Tare Wt, g	67.38	67.78	67.47	67.26	67.52	67.91	68.08					
Water Wt, g	39.65	56.22	38.91	47.85	47.19	53.65	55.77					
Dried Sample Wt, g	0.09	0.13	0.07	0.11	0.13	0.11	0.14					
Salt Wt, g	0.028	0.040	0.028	0.034	0.034	0.038	0.040					
Particulates Wt, g	0.062	0.090	0.042	0.076	0.096	0.072	0.100					
Particulates Conc. (g/L)	1.6	1.6	1.1	1.6	2.0	1.3	1.8					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	88	89	90	92	95	96	97	97A	98			
Wet Sample + Tare Wt, g	110.67	108.70	124.66	112.18	109.05	116.04	121.40	114.81	114.89			
Dried Sample + Tare Wt, g	67.82	66.41	68.23	67.78	66.10	68.25	67.49	67.38	67.51			
Tare Wt, g	67.73	66.32	68.10	67.69	66.00	68.15	67.36	67.26	67.41			
Water Wt, g	42.85	42.29	56.43	44.40	42.95	47.79	53.91	47.43	47.38			
Dried Sample Wt, g	0.09	0.09	0.13	0.09	0.10	0.10	0.13	0.12	0.10			
Salt Wt, g	0.030	0.030	0.040	0.032	0.031	0.034	0.038	0.034	0.034			
Particulates Wt, g	0.060	0.060	0.090	0.058	0.069	0.066	0.092	0.086	0.066			
Particulates Conc. (g/L)	1.4	1.4	1.6	1.3	1.6	1.4	1.7	1.8	1.4			

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	98A	100	99A	122	120	119	114	113	99	112		
Wet Sample + Tare Wt, g	108.16	113.26	116.52	117.44	117.34	123.68	129.03	125.70	122.29	124.43		
Dried Sample + Tare Wt, g	67.47	68.49	67.19	67.39	66.30	67.71	68.33	65.52	67.97	67.86		
Tare Wt, g	67.38	68.38	67.08	67.29	66.17	67.59	68.19	65.38	67.83	67.72		
Water Wt, g	40.69	44.77	49.33	50.05	51.04	55.97	60.7	60.18	54.32	56.57		
Dried Sample Wt, g	0.09	0.11	0.11	0.1	0.13	0.12	0.14	0.14	0.14	0.14		
Salt Wt, g	0.029	0.032	0.035	0.036	0.036	0.040	0.043	0.043	0.039	0.040		
Particulates Wt, g	0.061	0.078	0.075	0.064	0.094	0.080	0.097	0.097	0.101	0.100		
Particulates Conc. (g/L)	1.5	1.7	1.5	1.3	1.8	1.4	1.6	1.6	1.9	1.8		

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	104A	109	104	102A	123	105	117	106	118	107	108	
Wet Sample + Tare Wt, g	103.63	111.77	109.86	112.00	117.02	116.60	121.77	136.46	126.07	121.72	118.88	
Dried Sample + Tare Wt, g	67.06	68.30	67.54	67.97	65.78	66.28	66.93	67.40	66.14	66.44	67.83	
Tare Wt, g	66.96	68.18	67.42	67.85	65.64	66.13	66.78	67.21	65.98	66.28	67.68	
Water Wt, g	---	43.47	42.32	44.03	51.24	50.32	54.84	69.06	59.93	55.28		
Dried Sample Wt, g	---	0.12	0.12	0.12	0.14	0.15	0.15	0.19	0.16	0.16		
Salt Wt, g	---	0.031	0.030	0.031	0.036	0.036	0.039	0.049	0.043	0.039		
Particulates Wt, g	---	0.089	0.090	0.089	0.104	0.114	0.111	0.141	0.117	0.121		
Particulates Conc. (g/L)	---	2.0	2.1	2.0	2.0	2.3	2.0	2.0	2.0	2.2		

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

5 day (120 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	98A	100	114	63	112	113	119	99	120	122	
Wet Sample + Tare Wt, g	---	106.24	111.91	115.10	108.29	112.62	110.79	114.51	133.49	133.49	134.53	
Dried Sample + Tare Wt, g	---	67.45	68.48	68.28	67.60	67.81	65.47	67.68	67.98	66.26	67.43	
Tare Wt, g	---	67.36	68.38	68.17	67.49	67.69	65.36	67.56	67.82	67.82	67.27	
Water Wt, g	---	38.79	43.43	46.82	40.69	44.81	45.32	46.83	65.51	67.23	67.10	
Dried Sample Wt, g	---	0.09	0.10	0.11	0.11	0.12	0.11	0.12	0.16	-1.56	0.16	
Salt Wt, g	---	0.028	0.031	0.033	0.029	0.032	0.032	0.033	0.047	0.048	0.048	
Particulates Wt, g	---	0.062	0.069	0.077	0.081	0.088	0.078	0.087	0.113	-1.608	0.112	
Particulates Conc. (g/L)	---	1.6	1.6	1.6	2.0	2.0	1.7	1.9	1.7	-24.1	1.7	

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	36	38	39	40	41	42	43	44	45	48	
Wet Sample + Tare Wt, g	---	112.20	110.62	109.02	116.68	117.96	118.55	116.74	115.55	112.55	126.65	
Dried Sample + Tare Wt, g	---	66.06	66.29	68.17	66.60	66.14	67.45	67.67	66.01	67.92	68.13	
Tare Wt, g	---	65.94	66.18	68.05	66.47	66.01	67.33	67.55	65.88	67.80	67.99	
Water Wt, g	---	46.14	44.33	40.85	50.08	51.82	51.10	49.07	49.54	44.63	58.52	
Dried Sample Wt, g	---	0.12	0.11	0.12	0.13	0.13	0.12	0.12	0.13	0.12	0.14	
Salt Wt, g	---	0.033	0.032	0.029	0.036	0.037	0.036	0.035	0.035	0.032	0.042	
Particulates Wt, g	---	0.087	0.078	0.091	0.094	0.093	0.084	0.085	0.095	0.088	0.098	
Particulates Conc. (g/L)	---	1.9	1.8	2.2	1.9	1.8	1.6	1.7	1.9	2.0	1.7	

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Client Name:	Parsons		
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Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	---	83	84	85	87	88	89	90	92	95	
Wet Sample + Tare Wt, g	---	---	109.46	110.66	109.47	115.26	119.54	119.40	129.22	128.28	122.91	
Dried Sample + Tare Wt, g	---	---	67.38	67.43	67.73	66.57	67.85	66.40	68.21	67.83	66.13	
Tare Wt, g	---	---	67.26	67.32	67.63	66.46	67.71	66.30	68.07	67.67	65.99	
Water Wt, g	---	---	42.08	43.23	41.74	48.69	51.69	53.00	61.01	60.45	56.78	
Dried Sample Wt, g	---	---	0.12	0.11	0.10	0.11	0.14	0.10	0.14	0.16	0.14	
Salt Wt, g	---	---	0.030	0.031	0.030	0.035	0.037	0.038	0.043	0.043	0.040	
Particulates Wt, g	---	---	0.090	0.079	0.070	0.075	0.103	0.062	0.097	0.117	0.100	
Particulates Conc. (g/L)	---	---	2.1	1.8	1.7	1.5	2.0	1.2	1.6	1.9	1.8	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2										
Tare No.	27	36										
Dry Particulates + Filter Paper Wt, g	0.0727	0.0840										
Filter Paper Wt, g	0.0684	0.0781										
Dry Particulates Wt, g	0.0043	0.0059										
Volume (mL)	115	115										
Particulates TSS Conc. (mg/L)	37.4	51.3										
Turbidity (NTU)	27	36										

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Project Location:	Syracuse, NY		
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Test Start Date:	2/14/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4								
Tare No.	30	33	34	35								
Dry Particulates + Filter Paper Wt, g	0.0742	0.0780	0.0845	0.0772								
Filter Paper Wt, g	0.0725	0.0756	0.0801	0.0725								
Dry Particulates Wt, g	0.0017	0.0024	0.0044	0.0047								
Volume (mL)	120	122	127	129								
Particulates TSS Conc. (mg/L)	14.2	19.7	34.6	36.4								
Turbidity (NTU)												

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Project Location:	Syracuse, NY		
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Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7					
Tare No.	46	48	49	52	55	57	45					
Dry Particulates + Filter Paper Wt, g	0.0708	0.0722	0.0747	0.0839	0.0844	0.0837	0.0793					
Filter Paper Wt, g	0.0704	0.0683	0.0702	0.0803	0.0799	0.0788	0.0726					
Dry Particulates Wt, g	0.0004	0.0039	0.0045	0.0036	0.0045	0.0049	0.0067					
Volume (mL)	134	132	137	141	139	131	134					
Particulates TSS Conc. (mg/L)	3.0	29.5	32.8	25.5	32.4	37.4	50.0					
Turbidity (NTU)	8.4	10	14	12	15	15	24					

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Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	70	71	72	73	74	75	76	83	87			
Dry Particulates + Filter Paper Wt, g	0.0727	0.0789	0.0769	0.0735	0.0740	0.0737	0.0731	0.0834	0.0882			
Filter Paper Wt, g	0.0698	0.0757	0.0726	0.0698	0.0692	0.0699	0.0693	0.0778	0.0721			
Dry Particulates Wt, g	0.0029	0.0032	0.0043	0.0037	0.0048	0.0038	0.0038	0.0056	0.0161			
Volume (mL)	133	140	141	142	135	140	143	144	160			
Particulates TSS Conc. (mg/L)	21.8	22.9	30.5	26.1	35.6	27.1	26.6	38.9	100.6			
Turbidity (NTU)												

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	101	102	100A	103	115	116	121	103A	101A	105A		
Dry Particulates + Filter Paper Wt, g	0.0955	0.0754	0.0934	0.0878	0.0881	0.0935	0.0895	0.0773	0.0798	0.1228		
Filter Paper Wt, g	0.0778	0.0692	0.0876	0.0825	0.0824	0.0877	0.0821	0.0705	0.0731	0.0829		
Dry Particulates Wt, g	0.0177	0.0062	0.0058	0.0053	0.0057	0.0058	0.0074	0.0068	0.0067	0.0399		
Volume (mL)	136	139	139	137	142	142	144	137	138	135		
Particulates TSS Conc. (mg/L)	130.1	44.6	41.7	38.7	40.1	40.8	51.4	49.6	48.6	295.6		
Turbidity (NTU)	17	14	11	12	12	12	10	11	13	170		

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Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	83	52	87	34	115	71	101A	105A	75	57	121	
Dry Particulates + Filter Paper Wt, g	0.0906	0.0767	0.0711	0.0823	0.0761	0.0707	0.0833	0.0747	0.0763	0.0871	0.0976	
Filter Paper Wt, g	0.0878	0.0747	0.0699	0.0810	0.0750	0.0692	0.0823	0.0731	0.0749	0.0828	0.0826	
Dry Particulates Wt, g	0.0028	0.0020	0.0012	0.0013	0.0011	0.0015	0.0010	0.0016	0.0014	0.0043	0.0150	
Volume (mL)	129	135	139	140	140	145	141	139	140	139	15	
Particulates TSS Conc. (mg/L)	21.7	14.8	8.6	9.3	7.9	10.3	7.1	11.5	10.0	30.9	1000.0	
Turbidity (NTU)	4.5	4.0	3.9	4.0	4.7	3.7	4.6	5.3	4.2	18	60	

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Project Location:	Syracuse, NY		
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Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

5 day (120 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	102	110	111	99A	39	103	103A	5	12	14	
Dry Particulates + Filter Paper Wt, g	---	0.0831	0.0774	0.0814	0.0897	0.0708	0.0841	0.0724	0.0844	0.0737	0.0797	
Filter Paper Wt, g	---	0.0814	0.0733	0.0774	0.0875	0.0697	0.0826	0.0707	0.0825	0.0704	0.0728	
Dry Particulates Wt, g	---	0.0017	0.0041	0.0040	0.0022	0.0011	0.0015	0.0017	0.0019	0.0033	0.0069	
Volume (mL)	---	141	140	141	142	144	141	142	137	139	147	
Particulates TSS Conc. (mg/L)	---	12.057	29.286	28.369	15.493	7.639	10.638	11.972	13.869	23.741	46.939	
Turbidity (NTU)	---	6.2	11	9.0	4.5	4.1	4.4	4.9	4.9	14	30	

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	49	52	55	57	58	59	61	62	63	64	
Dry Particulates + Filter Paper Wt, g	---	0.0775	0.0848	0.0787	0.0776	0.0824	0.0821	0.0900	0.0878	0.0921	0.0953	
Filter Paper Wt, g	---	0.0745	0.0812	0.0745	0.0743	0.0821	0.0781	0.0845	0.0821	0.0857	0.0855	
Dry Particulates Wt, g	---	0.0030	0.0036	0.0042	0.0033	0.0003	0.0040	0.0055	0.0057	0.0064	0.0098	
Volume (mL)	---	137	134	136	137	141	144	140	137	133	135	
Particulates TSS Conc. (mg/L)	---	21.898	26.866	30.882	24.088	2.128	27.778	39.286	41.606	48.120	72.593	
Turbidity (NTU)	---	7.5	5.9	7.2	7.3	6.8	7.5	9.2	10	15	35	

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10118	CST Test #:	2
Test Start Date:	2/14/2007	Tested By:	md
Test Start Time:	8:35	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	---	---	96	97	98	98A	99	99A	100	100A	101	
Dry Particulates + Filter Paper Wt, g	---	---	0.0810	0.0831	0.0826	0.0825	0.0816	0.0832	0.0834	0.0839	0.0856	
Filter Paper Wt, g	---	---	0.0804	0.0810	0.0802	0.0806	0.0793	0.0807	0.0808	0.0802	0.0805	
Dry Particulates Wt, g	---	---	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.004	0.005	
Volume (mL)	---	---	128	139	142	140	144	148	146	152	136	
Particulates TSS Conc. (mg/L)	---	---	4.688	15.108	16.901	13.571	15.972	16.892	17.808	24.342	37.500	
Turbidity (NTU)	---	---	4.0	3.1	7.6	3.9	4.5	5.6	8.3	12	19	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-10118	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50267		
Test Comment:	---				
Sample Description:	Moist, white silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10118	---	Moist, white silt	72.4

Notes: Temperature of Drying : 110° Celsius

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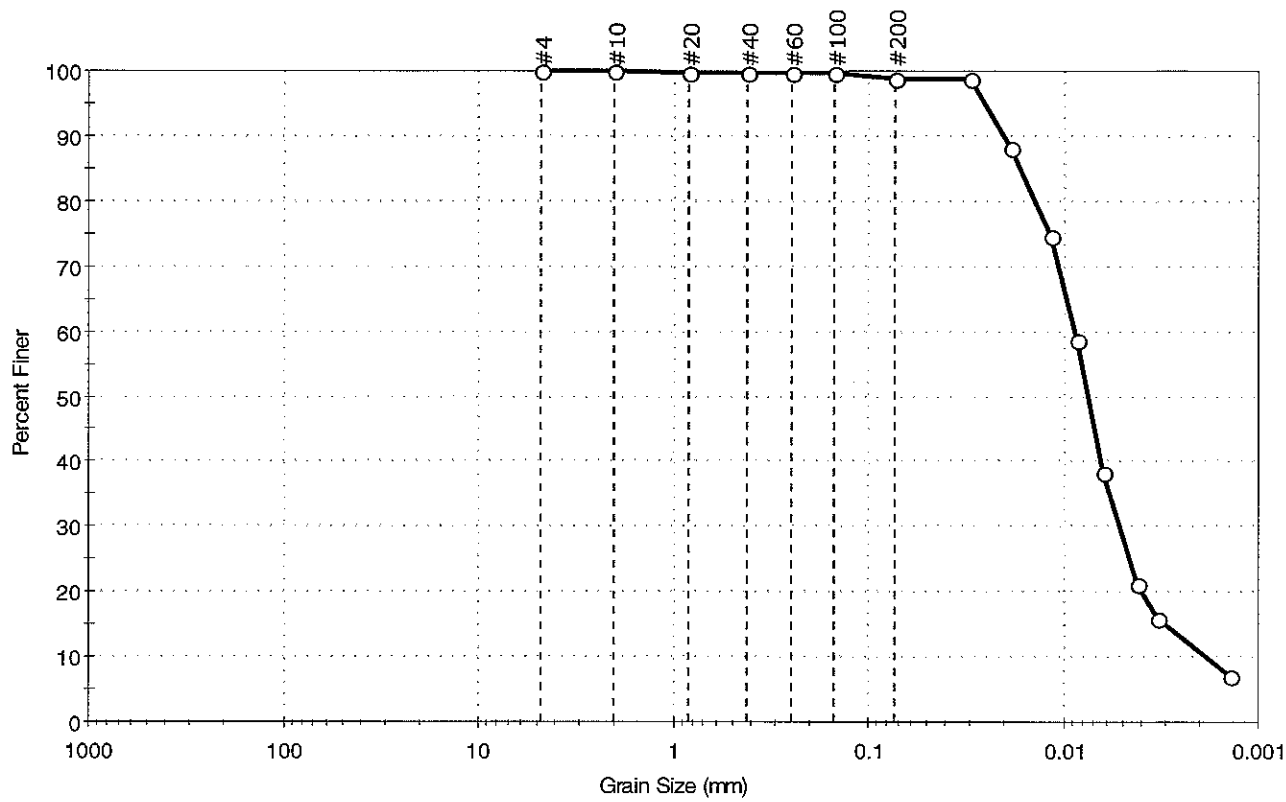
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-10118	Test Date: 04/10/07	Checked By:	jdt
Depth : ---	Test Id: 109691		
Test Comment:	---		
Sample Description:	Moist, white silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.3	98.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	99		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0303	99		
---	0.0189	88		
---	0.0115	75		
---	0.0085	59		
---	0.0063	38		
---	0.0042	21		
---	0.0033	16		
---	0.0014	7		

Coefficients

D_{85} = 0.0168 mm	D_{30} = 0.0052 mm
D_{60} = 0.0087 mm	D_{15} = 0.0030 mm
D_{50} = 0.0075 mm	D_{10} = 0.0018 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (35))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : SOFT

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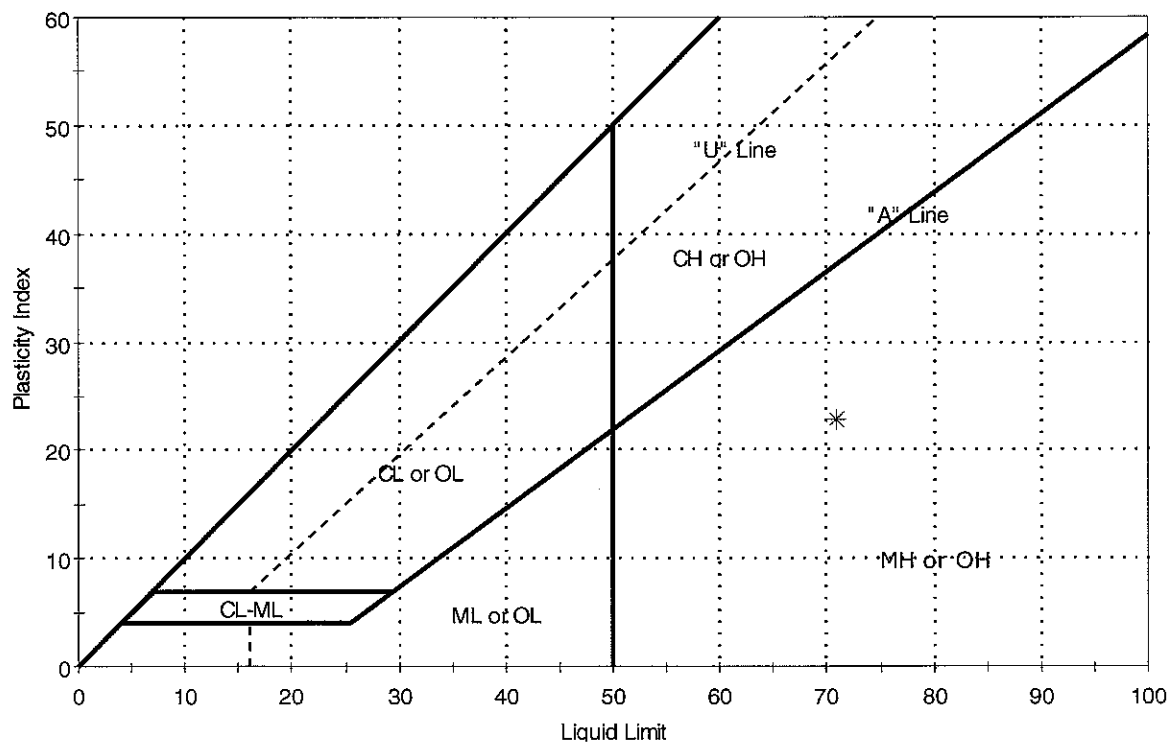
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-10118	Test Date:	04/12/07	Checked By:	jdt
Depth :	---	Test Id:	109708		
Test Comment:	---				
Sample Description:	Moist, white silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-10118	---	---	72	71	48	23	1	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-10118	Test Date:	04/12/07	Checked By:	jdt
Depth :	---	Test Id:	109742		
Test Comment:	---				
Sample Description:	Moist, white silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10118	---	Moist, white silt	2.37

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/06/07
Tested by:	md
Checked by:	jdt

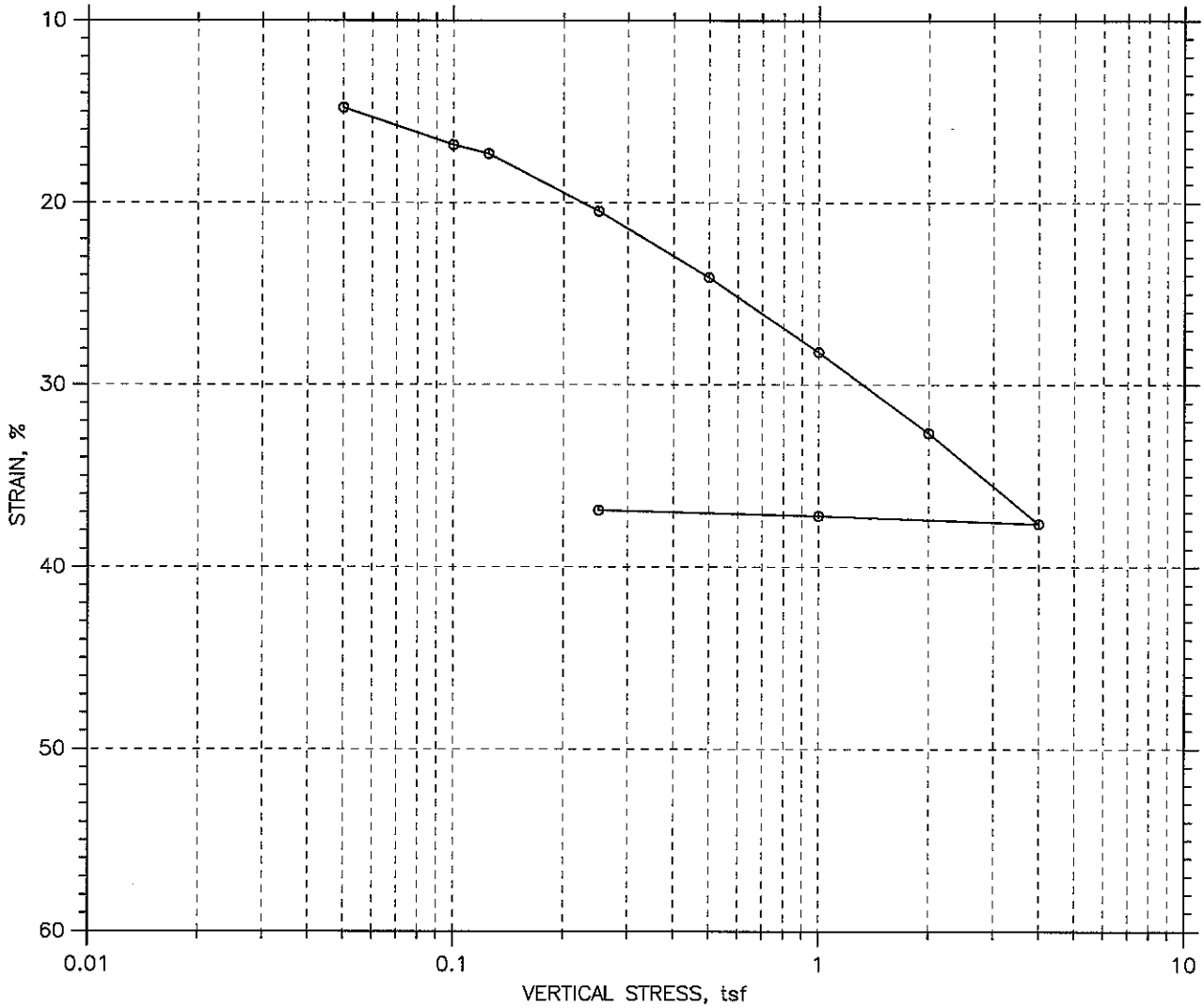
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10118	Moist, white silt	0.33	0.35	0.35	0.35	0.34

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	136.39	72.56
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	34.34	54.4
Compression Index: ---				Saturation, %	97.69	99.99
Diameter: 7.65 in		Height: 3.63 in		Void Ratio	3.31	1.72
LL: 71	PL: 48	PI: 23	GS: 2.37			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

Fri, 04-MAY-2007 13:30:45

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10118
Test No.: CST2 (LC-8)

Location: Syracuse, NY
Tested By: md
Test Date: 04/04/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, white silt
Remarks: ---

Measured Specific Gravity: 2.37
Initial Void Ratio: 3.31
Final Void Ratio: 1.72

Liquid Limit: 71
Plastic Limit: 48
Plasticity Index: 23

Initial Height: 3.63 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	677	RING		
Wt. Container + Wet Soil, gm	280.39	3555	2595	242.48
Wt. Container + Dry Soil, gm	155.89	1503.8	1503.8	143.99
Wt. Container, gm	107.42	0	0	8.25
Wt. Dry Soil, gm	48.47	1503.8	1503.8	135.74
Water Content, %	256.86	136.39	72.56	72.56
Void Ratio	---	3.31	1.72	---
Degree of Saturation, %	---	97.69	99.99	---
Dry Unit Weight, pcf	---	34.337	54.398	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 10118
Test No.: CST2 (LC-8)

Location: Syracuse, NY
Tested By: md
Test Date: 04/04/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, white silt
Remarks: ---

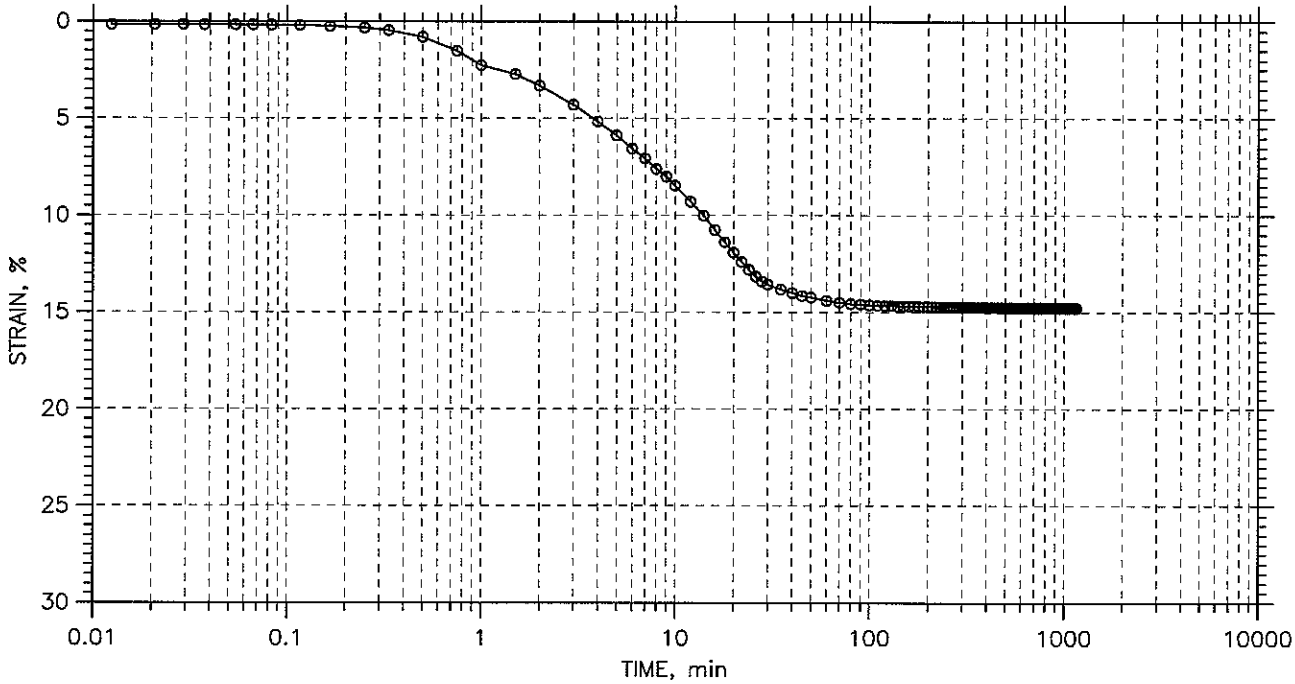
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.05	0.5363	2.672	14.77	8.8	0.0	1.06e-003	0.00e+000	1.06e-003
2	0.1	0.6106	2.584	16.82	3.0	3.4	2.52e-003	2.23e-003	2.37e-003
3	0.125	0.6286	2.563	17.32	9.0	12.6	8.29e-004	5.93e-004	6.91e-004
4	0.25	0.7429	2.427	20.47	1.3	1.4	5.29e-003	5.15e-003	5.22e-003
5	0.5	0.8745	2.271	24.09	0.9	0.8	6.90e-003	8.44e-003	7.59e-003
6	1	1.023	2.094	28.19	0.8	0.6	7.87e-003	1.07e-002	9.05e-003
7	2	1.185	1.902	32.64	0.6	0.4	9.35e-003	1.23e-002	1.06e-002
8	4	1.366	1.688	37.62	0.4	0.4	1.07e-002	1.18e-002	1.12e-002
9	1	1.35	1.707	37.18	0.0	0.0	9.06e-002	0.00e+000	9.06e-002
10	0.25	1.339	1.720	36.88	0.1	0.1	5.90e-002	5.58e-002	5.74e-002

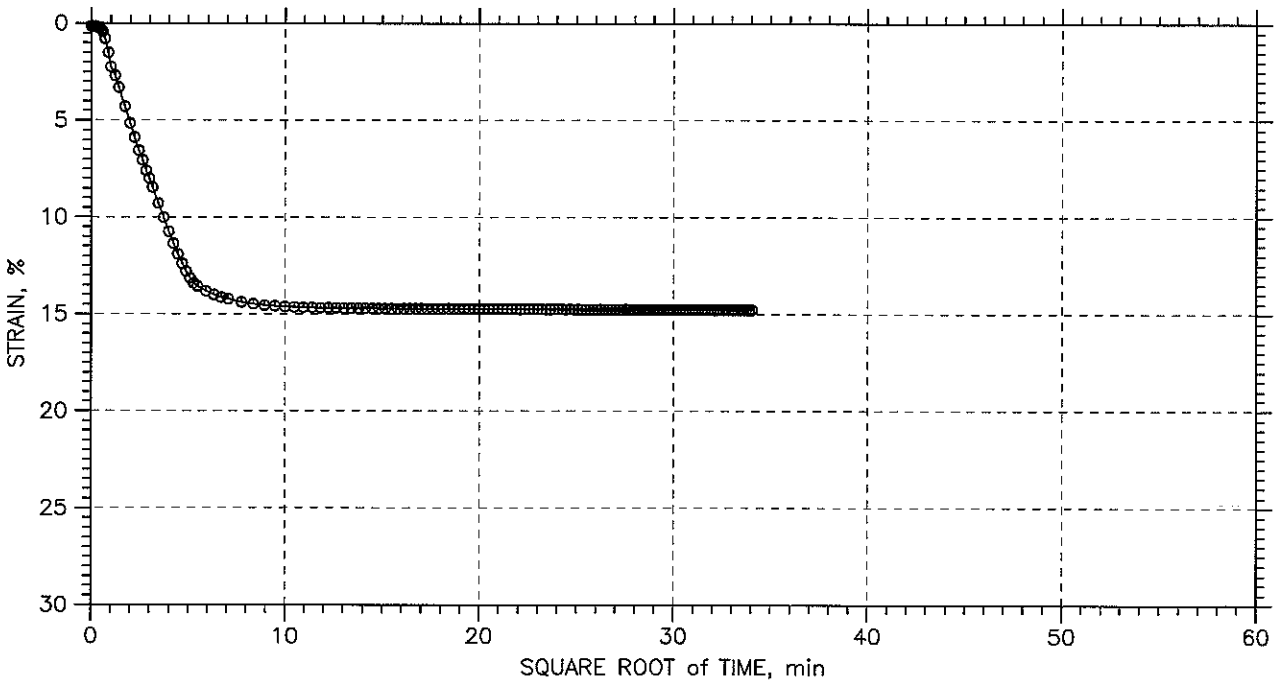
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

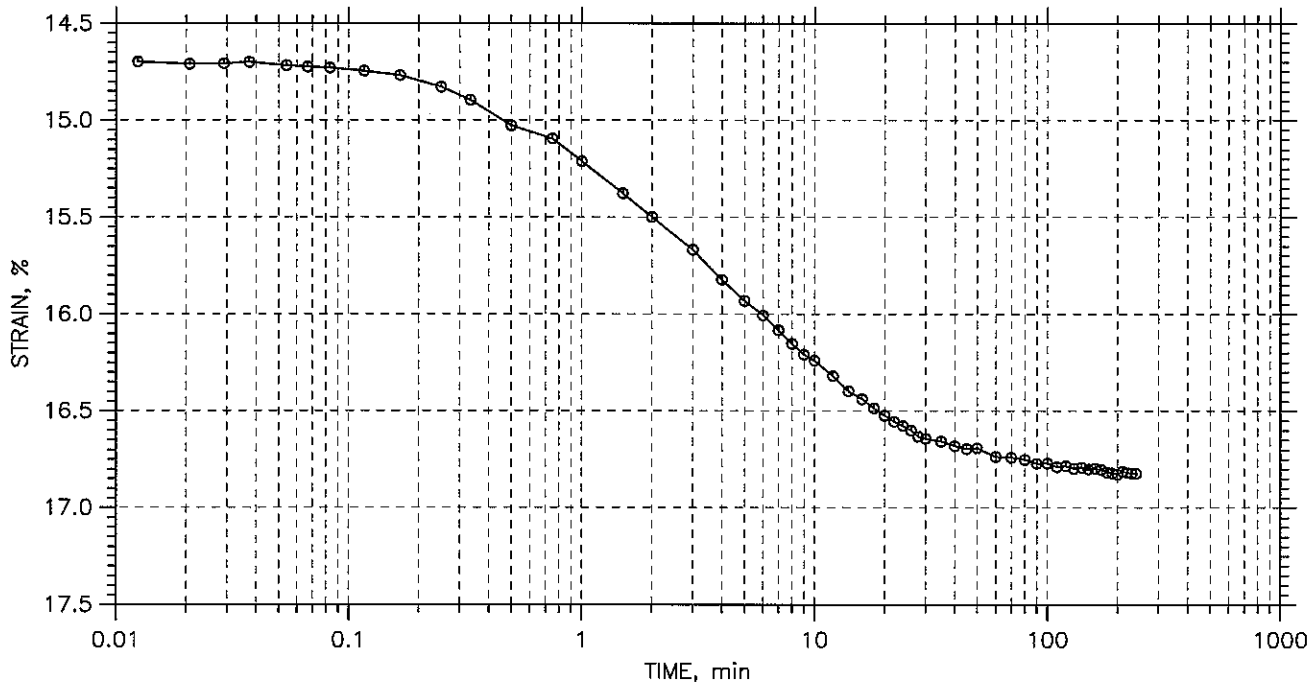
Fri, 04-MAY-2007 13:30:48

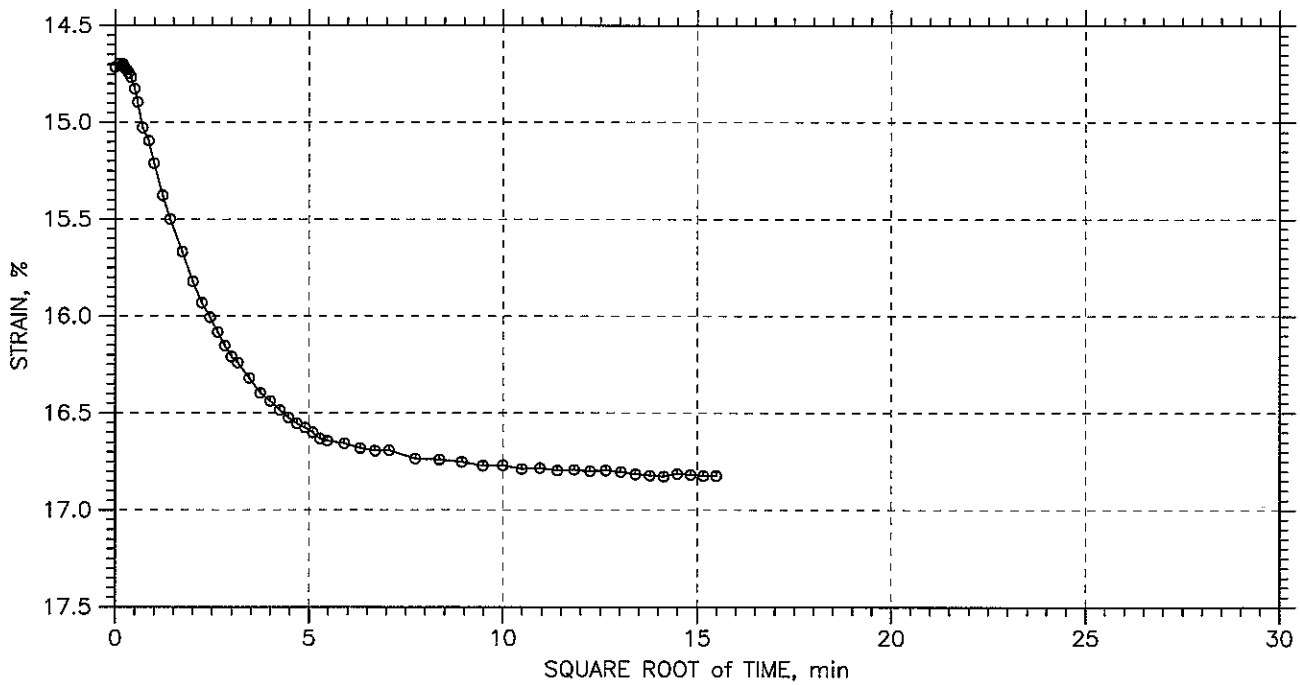
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

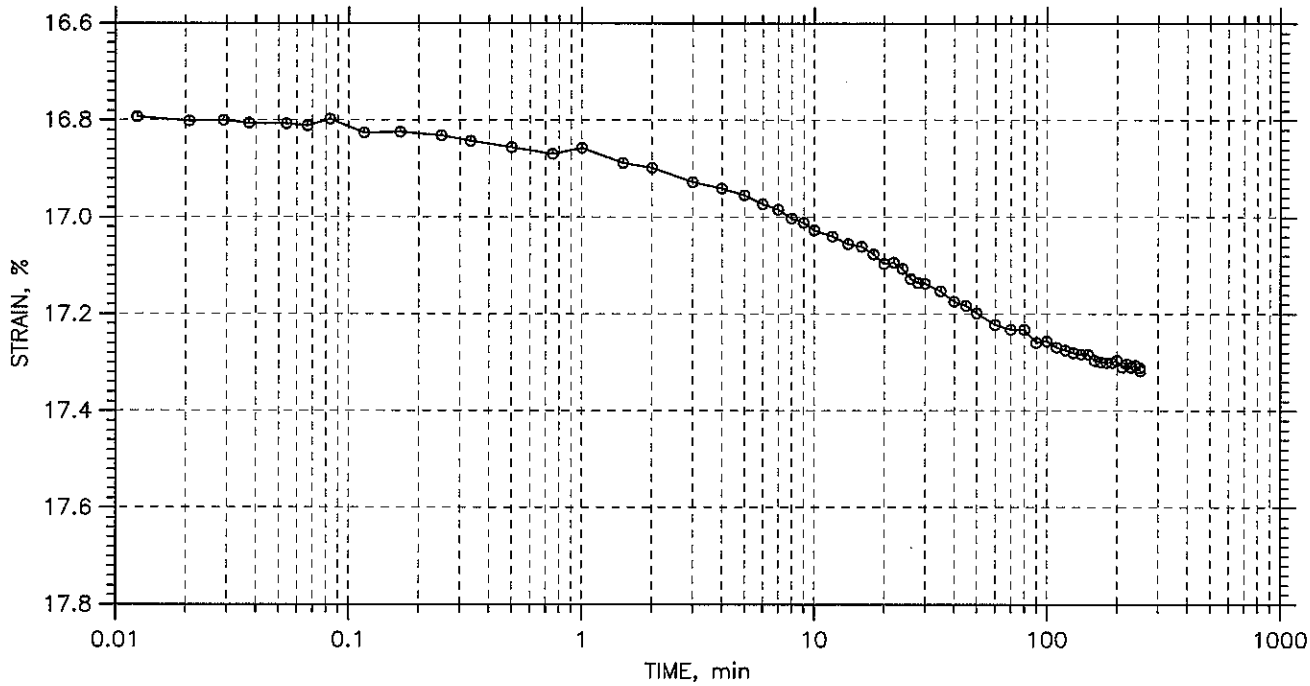
Fri, 04-MAY-2007 13:30:52

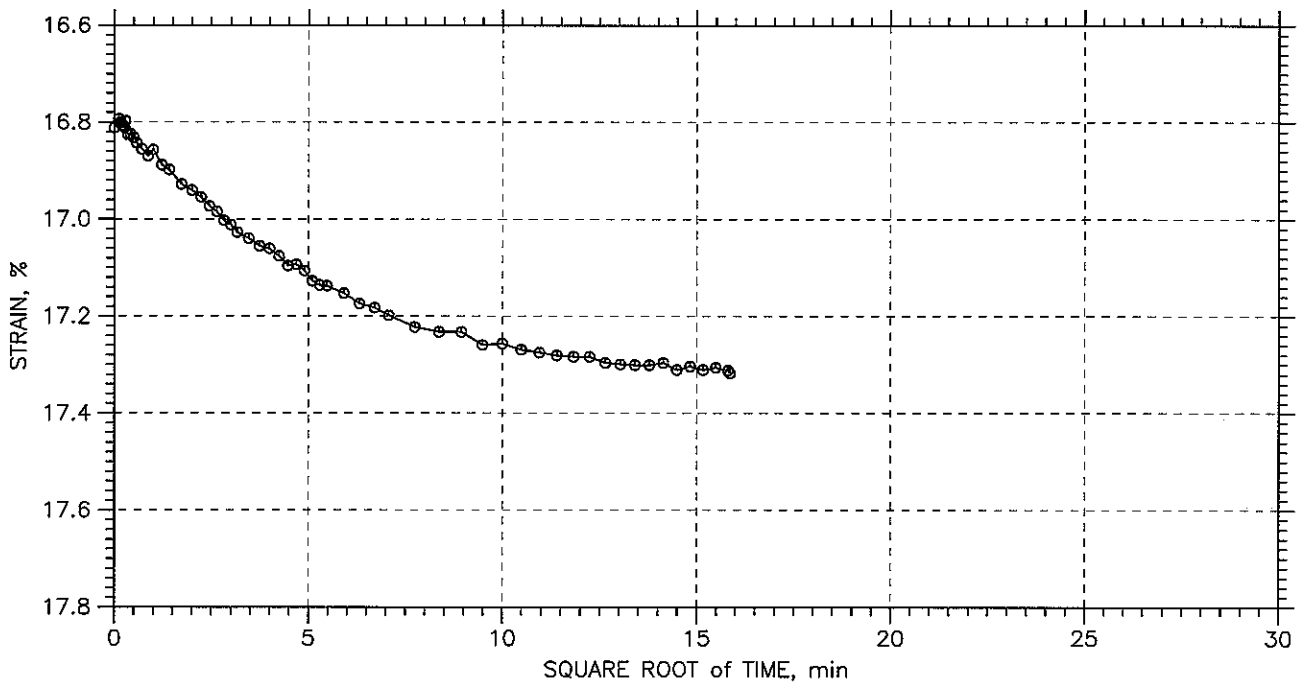
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

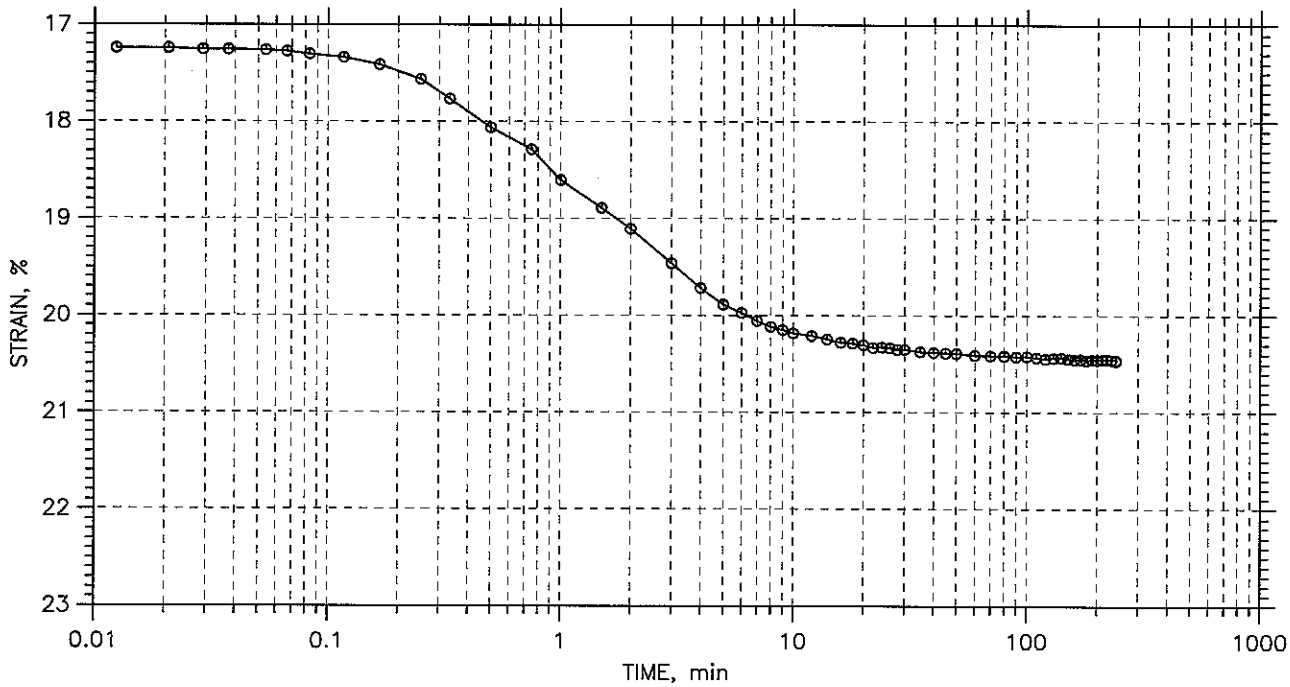
Fri, 04-MAY-2007 13:30:55

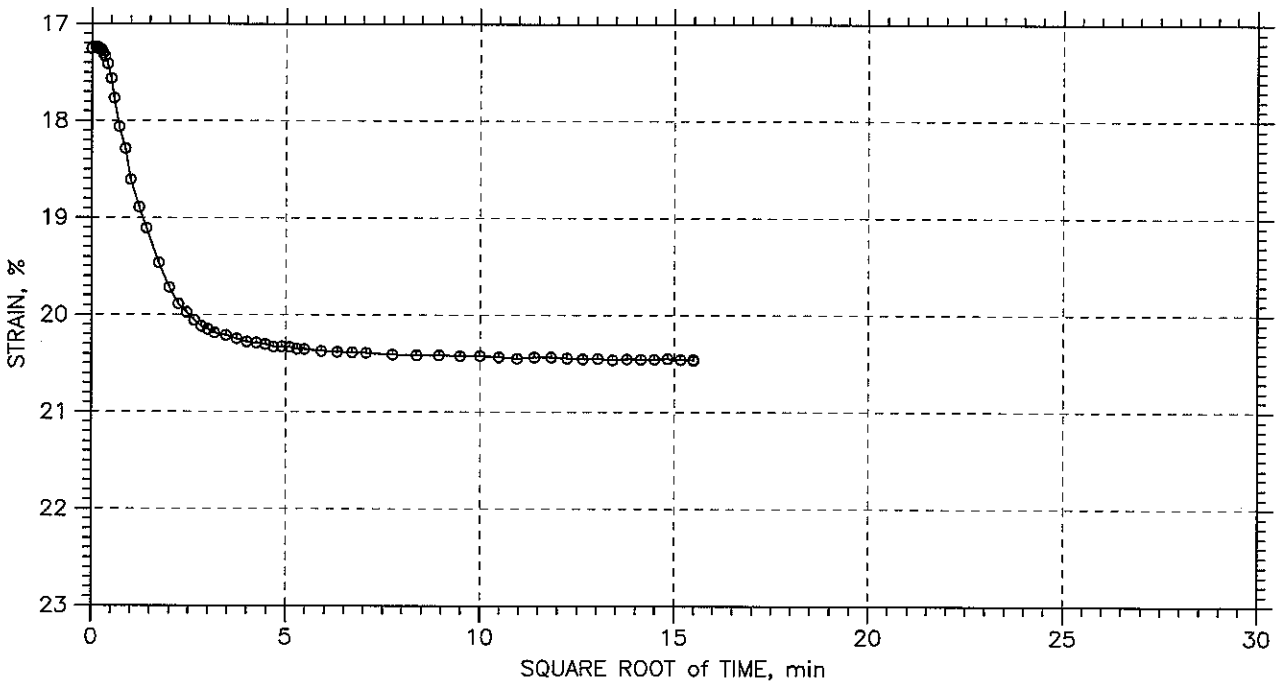
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

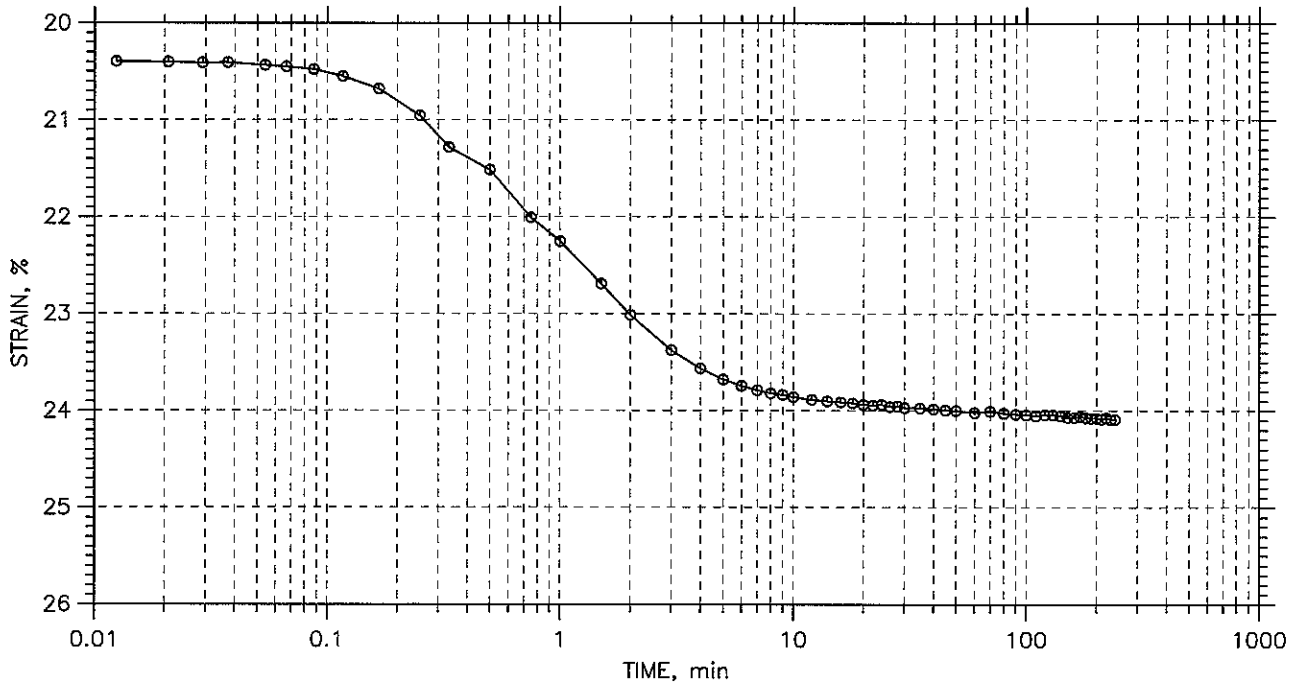
Fri, 04-MAY-2007 13:30:58

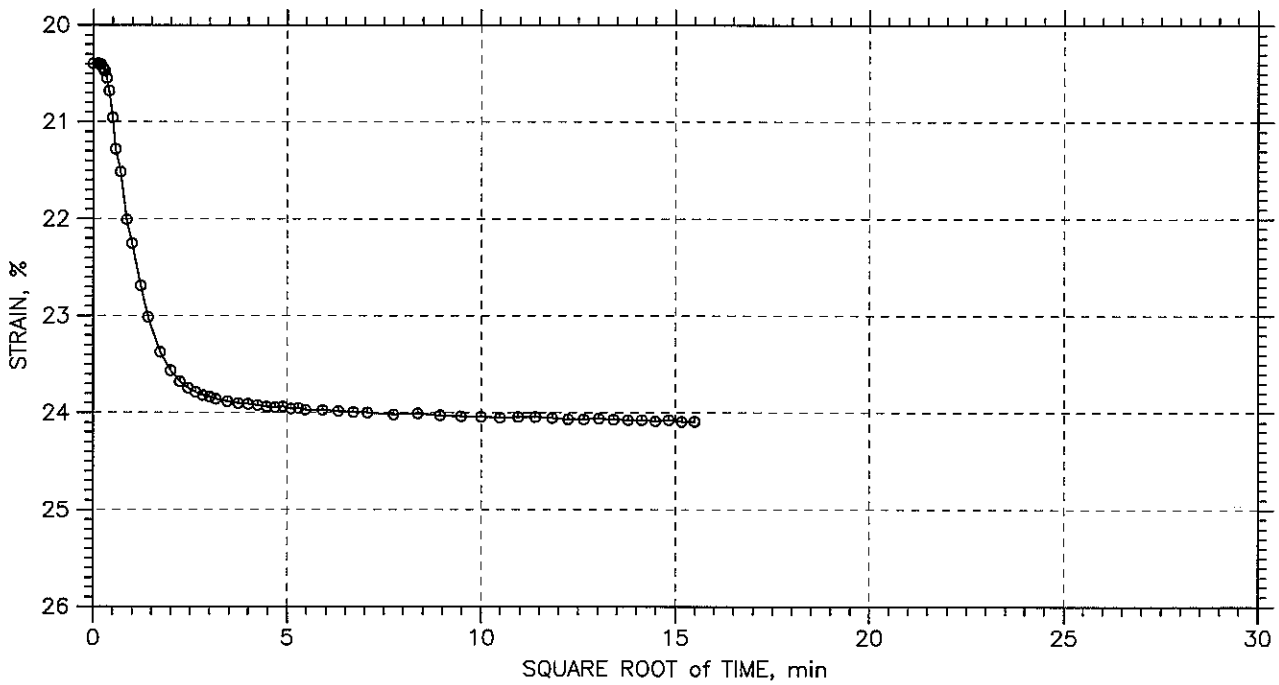
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

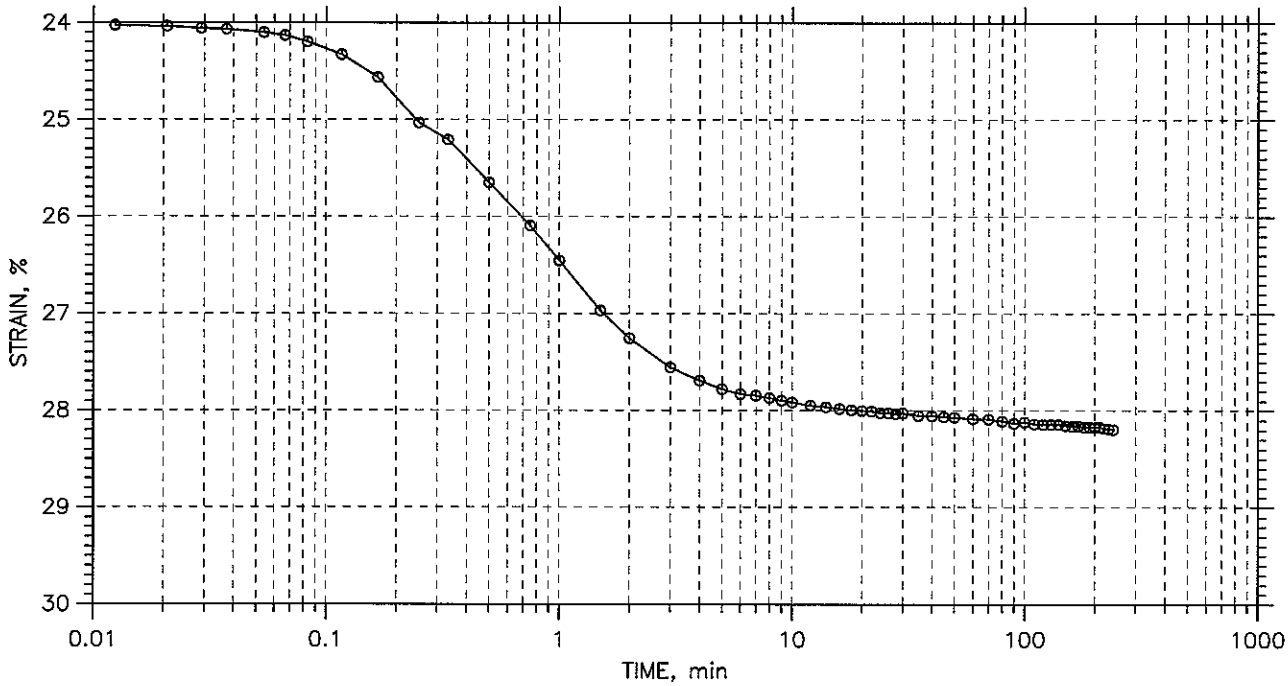
Fri, 04-MAY-2007 13:31:01

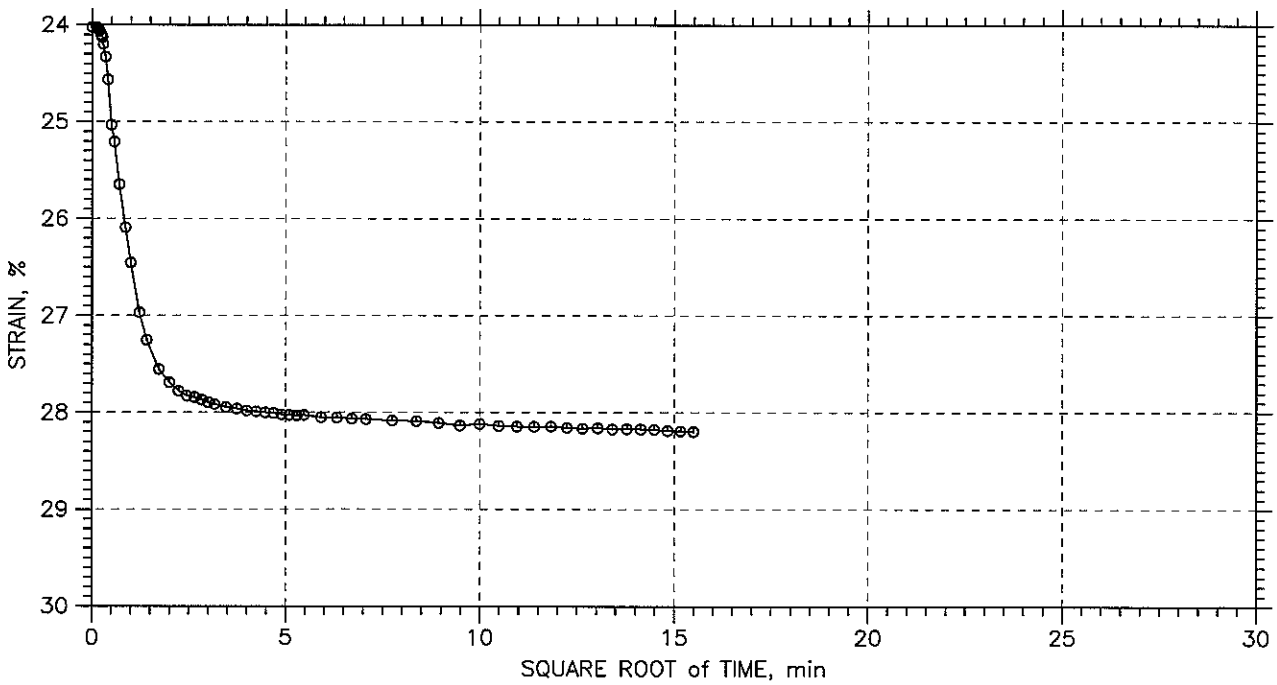
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

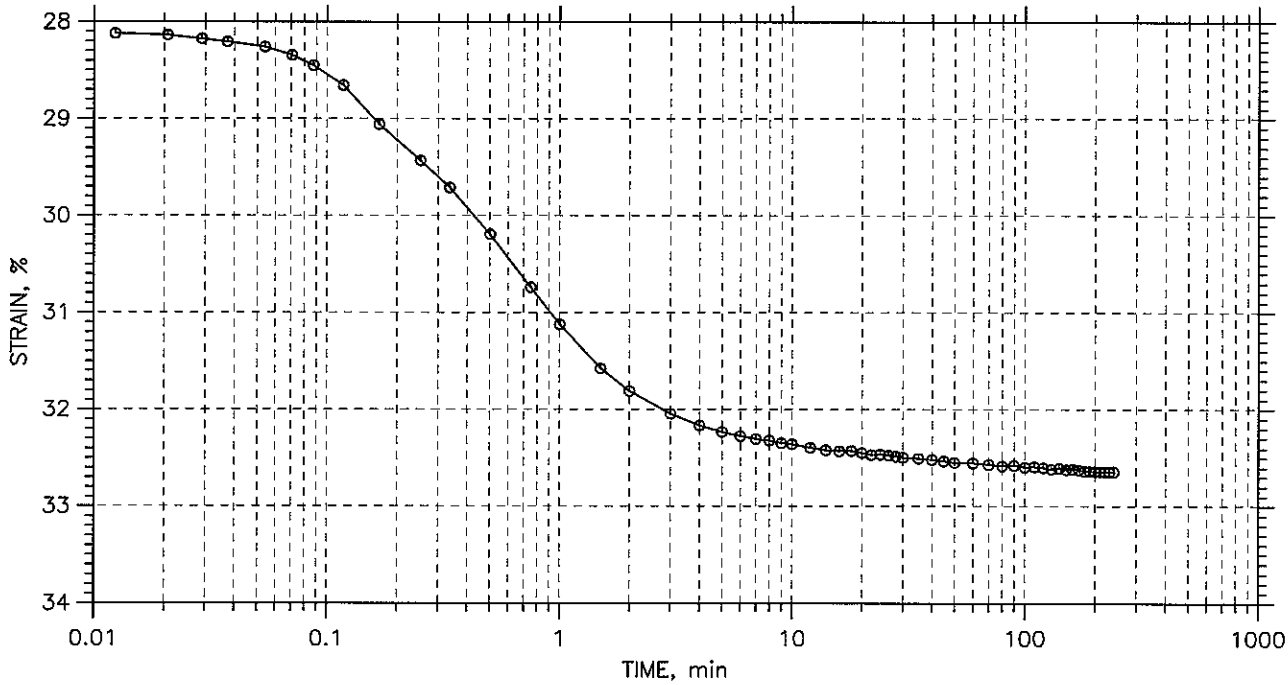
Fri, 04-MAY-2007 13:31:04

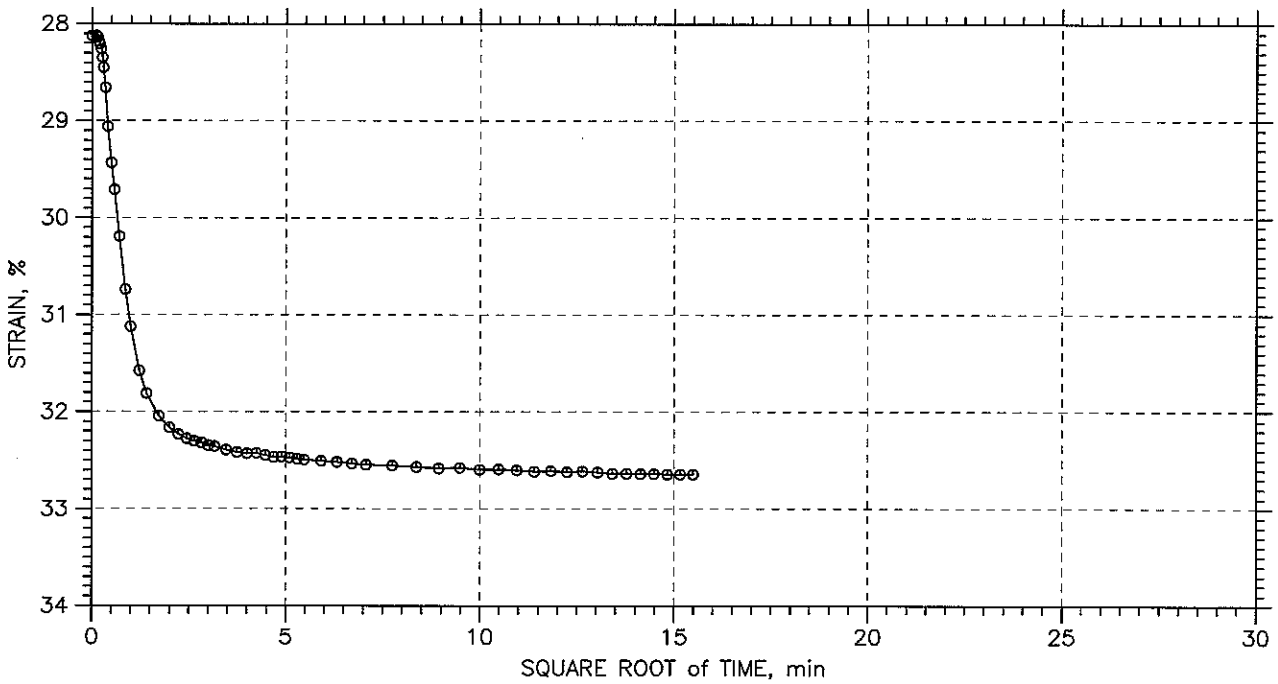
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

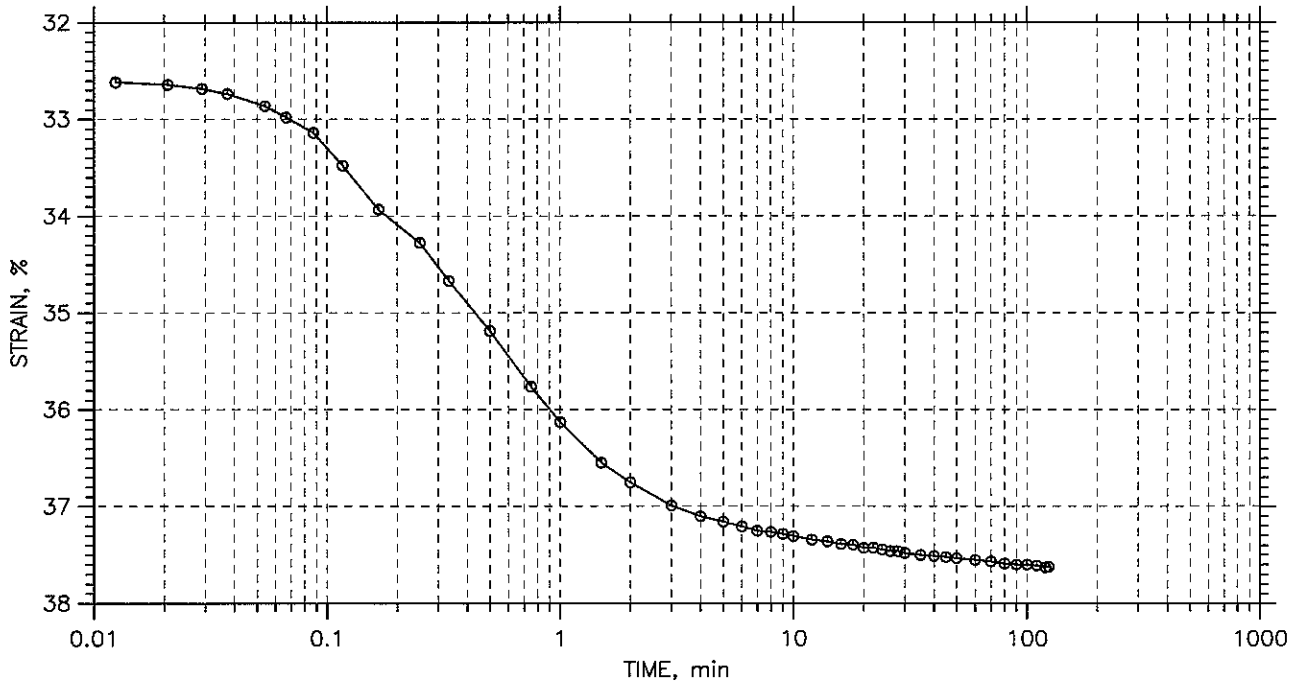
Fri, 04-MAY-2007 13:31:07

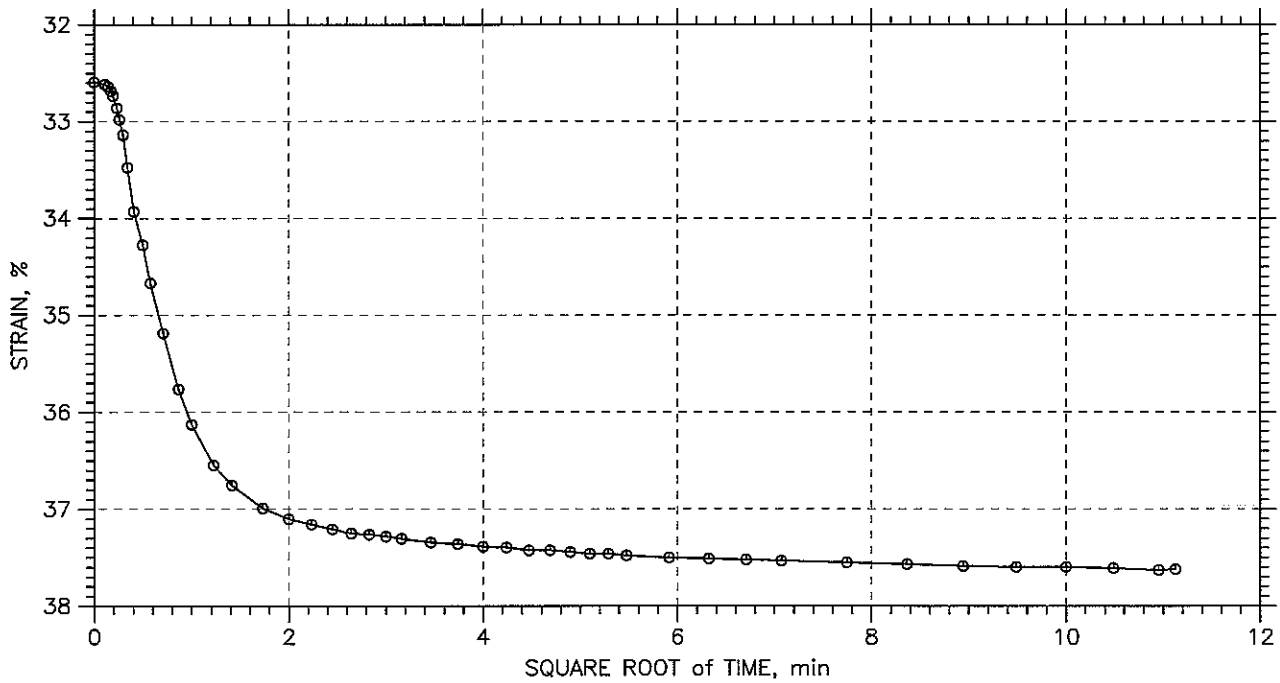
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

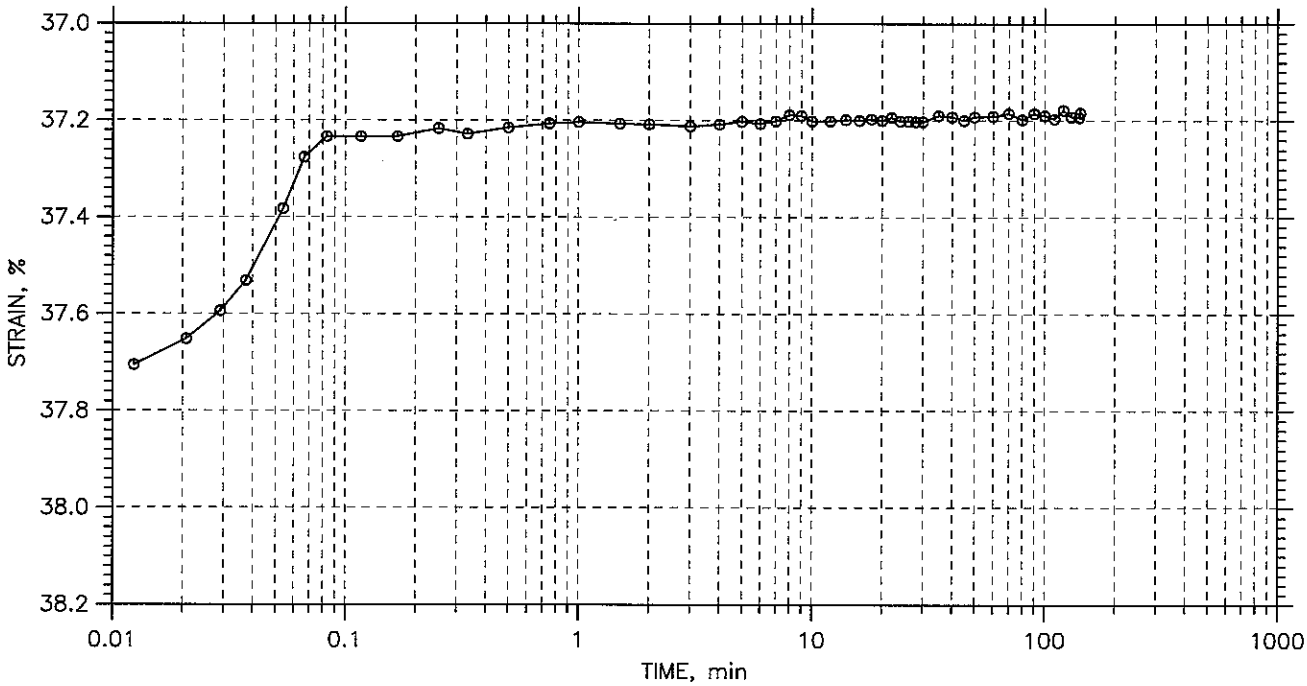
Fri, 04-MAY-2007 13:31:10

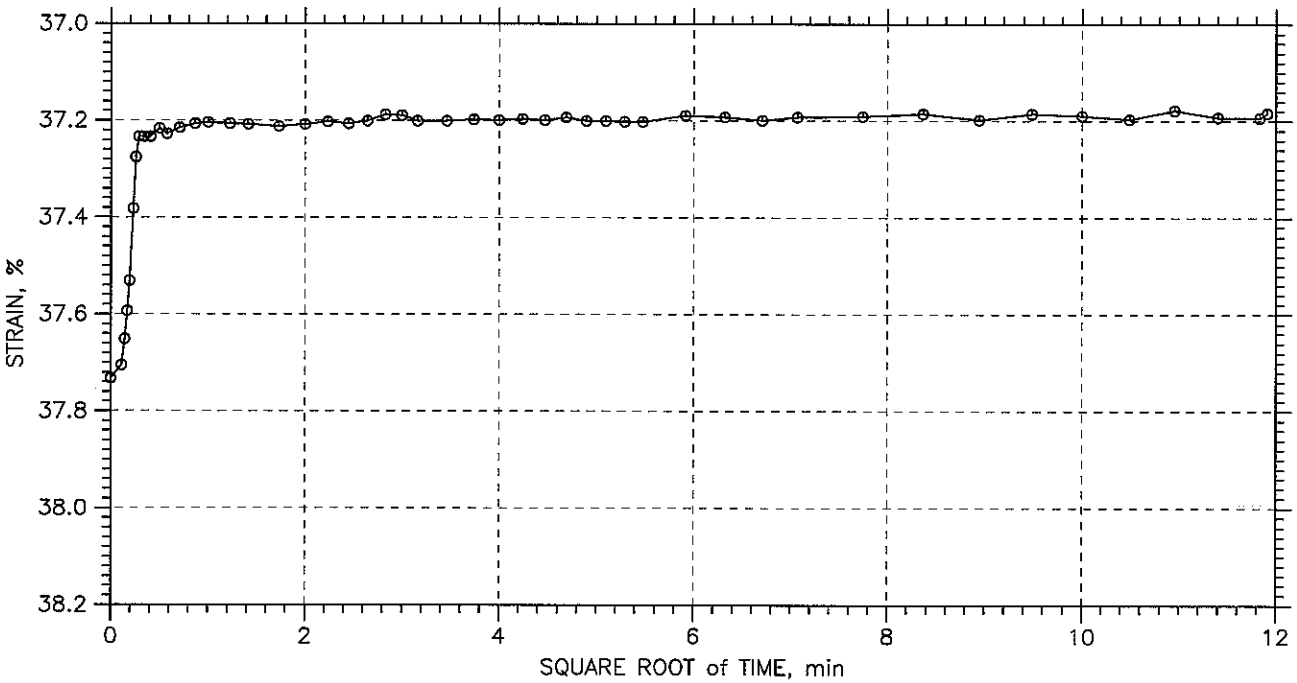
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

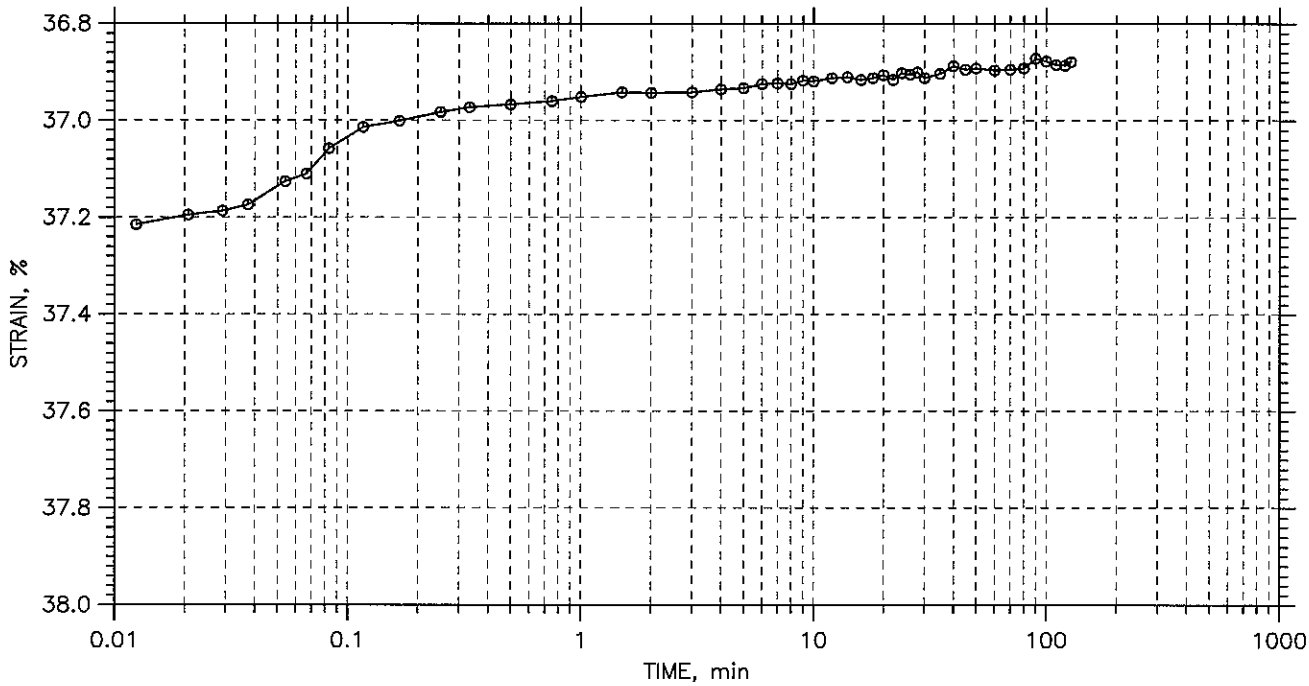
Fri, 04-MAY-2007 13:31:13

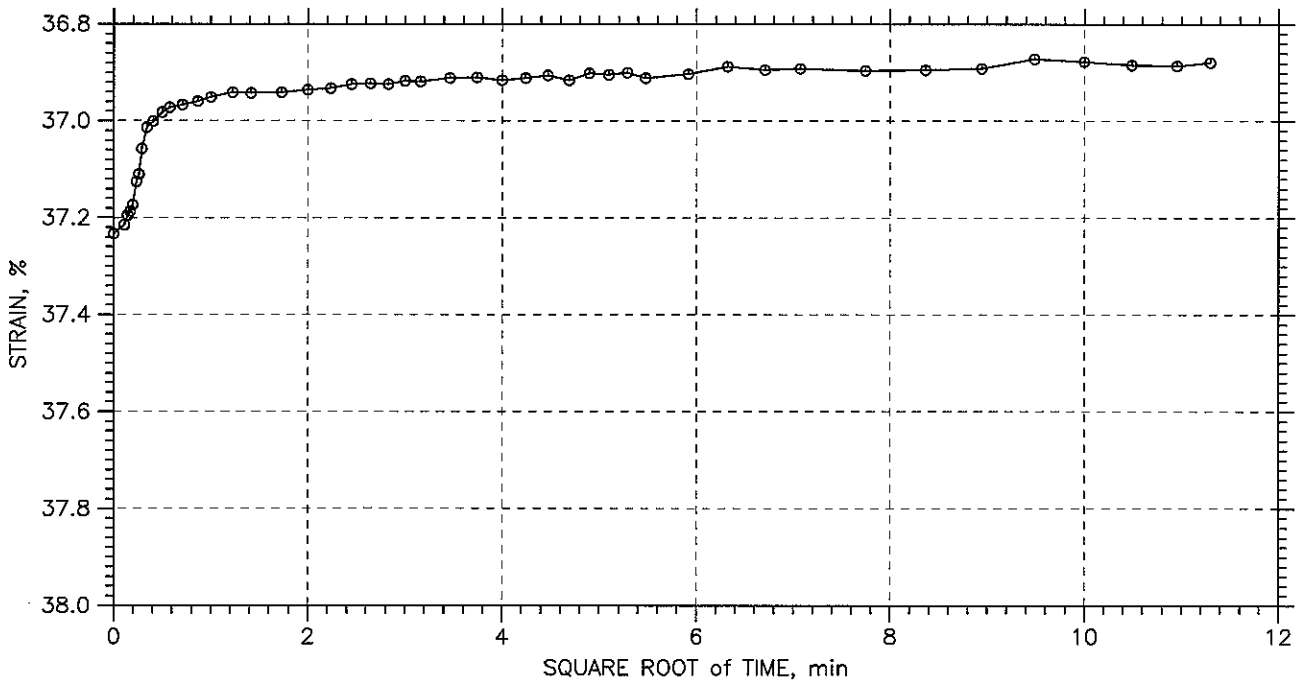
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 10118	Test Date: 04/04/07	Depth: ---
	Test No.: CST2 (LC-8)	Sample Type: Column	Elevation: ---
	Description: Moist, white silt		
	Remarks: ---		

Fri, 04-MAY-2007 13:32:19

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
02/20/07	9:30 AM	0	0.00	84.25	84.25		
	9:32 AM	2	0.03		82.5		
	9:34 AM	4	0.07		80		
	9:37 AM	7	0.12		76.25		
	9:40 AM	10	0.17		73.6		
	9:45 AM	15	0.25		69.1		
	9:50 AM	20	0.33		67.6		
	9:55 AM	25.0	0.42		66		
	10:00 AM	30.0	0.50		64.6		
	10:05 AM	35	0.58		63.1		
	10:10 AM	40	0.67		61.9		
	10:20 AM	50	0.83		59.25		
	10:25 AM	55	0.92		58.4		
	10:30 AM	60	1.00		57.4		
	10:35 AM	65	1.08	83.70	56.3		
	10:40 AM	70	1.17		55.4		
	10:45 AM	75	1.25		54.5		
	10:50 AM	80	1.33		53.6		
	10:55 AM	85	1.42		52.6		
	11:00 AM	90	1.50		51.75		
	11:05 AM	95	1.58		50.9		
	11:10 AM	100	1.67		50		
	11:15 AM	105	1.75		49.1		
	11:20 AM	110	1.83		48.25		
	11:25 AM	115	1.92		47.4		
	11:30 AM	120	2.00		46.6		
	11:35 AM	125	2.08	82.90	45.6		
	11:40 AM	130	2.17		44.9		
	11:47 AM	137	2.28		43.7		
	11:50 AM	140	2.33		43.2		
	11:55 AM	145	2.42		42.4		
	12:00 PM	150	2.50		41.5		
	12:05 PM	155	2.58		40.75		
	12:10 PM	160	2.67		40		
	12:15 PM	165	2.75		39.25		
	12:20 PM	170	2.83		38.4		
	12:25 PM	175	2.92		37.6		
	12:30 PM	180	3.00		36.9		
	12:35 PM	185	3.08		36.2		
	12:40 PM	190	3.17		35.5		
	12:45 PM	195	3.25		34.75		
	1:00 PM	210	3.50		32.75		
	1:15 PM	225	3.75		30.9		
	1:30 PM	240	4.00		29.2		
	1:45 PM	255	4.25	81.60	27.9		

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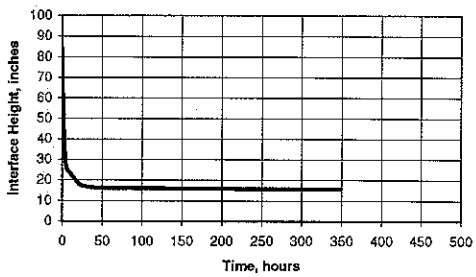
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
	2:00 PM	270	4.50		27.25		
	2:15 PM	285	4.75		26.75		
	2:32 PM	302	5.03		26.25		
	2:45 PM	315	5.25		26		
	3:00 PM	330	5.50		25.75		
	3:30 PM	360	6.00		25.3		
	4:00 PM	390	6.50		25		
02/21/07	7:15 AM	1305	21.75		17.9		
	10:15 AM	1485	24.75		17.40		
	4:30 PM	1920	32.00		16.80		
	7:00 PM	2010	33.50		16.60		
02/22/07	8:25 AM	2815	46.92		16.30		
	9:45 AM	2895	48.25	77.00	16.30		
	3:00 PM	3210	53.50		16.25		
02/23/07	9:30 AM	4320	72.00		16.10		
02/24/07	9:40 AM	5770	96.17	75.30	16.10		
02/28/07	9:40 AM	11530	192.17	73.40	15.80		
03/02/07	9:00 AM	13770	229.50	71.30	15.70		
03/07/07	8:30 AM	20940	349.00	71.30	15.70		



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GTX Project No.:	7143		
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	---									
Wet Sample + Tare Wt, g	133.82	134.29	133.51									
Dried Sample + Tare Wt, g	73.07	73.02	75.19									
Tare Wt, g	66.56	66.30	68.21									
Water Wt, g	60.75	61.27	58.32									
Dried Sample Wt, g	6.51	6.72	6.98									
Salt Wt, g	0.037	0.037	0.035									
Particulates Wt, g	6.473	6.683	6.945									
Particulates Conc. (g/L)	102.2	104.5	113.7									

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Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2										
Tare No.	108	103										
Wet Sample + Tare Wt, g	115.47	87.16										
Dried Sample + Tare Wt, g	69.87	69.00										
Tare Wt, g	67.60	67.58										
Water Wt, g	45.6	18.16										
Dried Sample Wt, g	2.27	1.42										
Salt Wt, g	0.028	0.011										
Particulates Wt, g	2.242	1.409										
Particulates Conc. (g/L)	48.2	75.3										

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4								
Tare No.	52	71	110	106								
Wet Sample + Tare Wt, g	108.05	107.65	105.16	111.70								
Dried Sample + Tare Wt, g	67.77	67.73	66.29	67.34								
Tare Wt, g	67.68	67.60	66.21	67.22								
Water Wt, g	40.28	39.92	38.87	44.36								
Dried Sample Wt, g	0.09	0.13	0.08	0.12								
Salt Wt, g	0.024	0.024	0.023	0.027								
Particulates Wt, g	0.066	0.106	0.057	0.093								
Particulates Conc. (g/L)	1.6	2.6	1.5	2.1								

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6						
Tare No.	112	43	90	24	88	16						
Wet Sample + Tare Wt, g	109.33	108.70	111.17	109.07	113.96	118.30						
Dried Sample + Tare Wt, g	67.82	67.67	68.18	67.67	67.85	67.46						
Tare Wt, g	67.71	67.56	68.07	67.57	67.72	67.33						
Water Wt, g	41.51	41.03	42.99	41.4	46.11	50.84						
Dried Sample Wt, g	0.11	0.11	0.11	0.1	0.13	0.13						
Salt Wt, g	0.025	0.025	0.026	0.025	0.028	0.031						
Particulates Wt, g	0.085	0.085	0.084	0.075	0.102	0.099						
Particulates Conc. (g/L)	2.0	2.1	2.0	1.8	2.2	2.0						

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9			
Tare No.	101	28	6	104A	40	98A	87	11	58			
Wet Sample + Tare Wt, g	106.43	108.75	111.47	105.17	113.39	116.94	119.26	123.50	120.50			
Dried Sample + Tare Wt, g	68.16	66.37	68.21	67.06	66.60	67.49	66.59	65.94	67.51			
Tare Wt, g	68.07	66.26	68.09	66.96	66.48	67.37	66.45	65.80	67.38			
Water Wt, g	38.27	42.38	43.26	38.11	46.79	49.45	52.67	57.56	52.99			
Dried Sample Wt, g	0.09	0.11	0.12	0.1	0.12	0.12	0.14	0.14	0.13			
Salt Wt, g	0.023	0.026	0.026	0.023	0.028	0.030	0.032	0.035	0.032			
Particulates Wt, g	0.067	0.084	0.094	0.077	0.092	0.090	0.108	0.105	0.098			
Particulates Conc. (g/L)	1.7	2.0	2.2	2.0	2.0	1.8	2.1	1.8	1.8			

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		
Tare No.	100A	44	92	70	9	67	74	45	89	116		
Wet Sample + Tare Wt, g	106.57	107.89	110.93	108.22	113.90	118.81	126.30	114.62	120.24	133.91		
Dried Sample + Tare Wt, g	67.59	65.99	67.79	67.86	67.71	68.06	68.01	67.93	66.45	68.42		
Tare Wt, g	67.49	65.86	67.66	67.76	67.57	67.91	67.84	67.80	66.29	68.27		
Water Wt, g	38.98	41.9	43.14	40.36	46.19	50.75	58.29	46.69	53.79	65.49		
Dried Sample Wt, g	0.1	0.13	0.13	0.1	0.14	0.15	0.17	0.13	0.16	0.15		
Salt Wt, g	0.024	0.025	0.026	0.024	0.028	0.031	0.035	0.028	0.033	0.040		
Particulates Wt, g	0.076	0.105	0.104	0.076	0.112	0.119	0.135	0.102	0.127	0.110		
Particulates Conc. (g/L)	2.0	2.5	2.4	1.9	2.4	2.3	2.3	2.2	2.4	1.7		

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	
Tare No.	175	176	177	178	179	180	181	182	183	184	185	
Wet Sample + Tare Wt, g	106.74	113.43	115.43	112.35	117.55	125.54	120.26	112.01	117.32	118.47	115.75	
Dried Sample + Tare Wt, g	67.44	67.58	67.01	67.29	67.87	68.01	67.91	67.47	67.06	66.66	66.78	
Tare Wt, g	67.36	67.48	66.89	67.20	67.75	67.88	67.79	67.38	66.94	66.54	66.64	
Water Wt, g	39.3	45.85	48.42	45.06	49.68	57.53	52.35	44.54	50.26	51.81	48.97	
Dried Sample Wt, g	0.08	0.1	0.12	0.09	0.12	0.13	0.12	0.09	0.12	0.12	0.14	
Salt Wt, g	0.024	0.028	0.029	0.027	0.030	0.035	0.032	0.027	0.030	0.031	0.030	
Particulates Wt, g	0.056	0.072	0.091	0.063	0.090	0.095	0.088	0.063	0.090	0.089	0.110	
Particulates Conc. (g/L)	1.4	1.6	1.9	1.4	1.8	1.7	1.7	1.4	1.8	1.7	2.3	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	70	71	72	74	75	79	81	83	84	87	
Wet Sample + Tare Wt, g	---	111.43	117.18	111.28	113.99	118.25	117.19	120.38	122.20	117.97	124.64	
Dried Sample + Tare Wt, g	---	67.87	67.71	67.67	67.97	68.24	67.91	67.71	67.40	67.46	66.62	
Tare Wt, g	---	67.76	67.58	67.56	67.86	68.12	67.89	67.58	67.26	67.33	66.46	
Water Wt, g	---	43.56	49.47	43.61	46.02	50.01	49.28	52.67	54.8	50.51	58.02	
Dried Sample Wt, g	---	0.11	0.13	0.11	0.11	0.12	0.02	0.13	0.14	0.13	0.16	
Salt Wt, g	---	0.026	0.030	0.026	0.028	0.030	0.030	0.032	0.033	0.031	0.035	
Particulates Wt, g	---	0.084	0.100	0.084	0.082	0.090	-0.010	0.098	0.107	0.099	0.125	
Particulates Conc. (g/L)	---	1.9	2.0	1.9	1.8	1.8	-0.2	1.9	1.9	2.0	2.2	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	83	84	85	87	95	96	98	98A	99	100	
Wet Sample + Tare Wt, g	---	110.63	108.69	105.20	110.60	111.90	107.58	113.36	108.36	114.33	114.14	
Dried Sample + Tare Wt, g	---	67.38	67.43	67.72	66.57	66.11	68.25	67.53	67.47	67.93	68.52	
Tare Wt, g	---	67.26	67.33	67.65	66.45	66.00	68.14	67.41	67.37	67.82	68.38	
Water Wt, g	---	43.25	41.26	37.48	44.03	45.79	39.33	45.83	40.89	46.40	45.62	
Dried Sample Wt, g	---	0.12	0.10	0.07	0.12	0.11	0.11	0.12	0.10	0.11	0.14	
Salt Wt, g	---	0.026	0.025	0.023	0.027	0.028	0.024	0.028	0.025	0.028	0.028	
Particulates Wt, g	---	0.094	0.075	0.047	0.093	0.082	0.086	0.092	0.075	0.082	0.112	
Particulates Conc. (g/L)	---	2.2	1.8	1.3	2.1	1.8	2.2	2.0	1.8	1.8	2.5	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	152	183	192	181	182	184	180	122	187	75	
Wet Sample + Tare Wt, g	---	112.98	110.32	112.47	107.81	113.22	125.17	114.68	115.55	116.70	117.84	
Dried Sample + Tare Wt, g	---	68.10	67.05	67.43	67.90	67.47	66.68	68.00	67.40	67.07	68.25	
Tare Wt, g	---	67.96	66.92	67.30	67.78	67.36	66.52	67.87	67.27	66.94	68.12	
Water Wt, g	---	44.88	43.27	45.04	39.91	45.75	58.49	46.68	48.15	49.63	49.59	
Dried Sample Wt, g	---	0.14	0.13	0.13	0.12	0.11	0.16	0.13	0.13	0.13	0.13	
Salt Wt, g	---	0.027	0.026	0.027	0.024	0.028	0.035	0.028	0.029	0.030	0.030	
Particulates Wt, g	---	0.113	0.104	0.103	0.096	0.082	0.125	0.102	0.101	0.100	0.100	
Particulates Conc. (g/L)	---	2.5	2.4	2.3	2.4	1.8	2.1	2.2	2.1	2.0	2.0	

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	8	13	19	20	21	24	25	26	27	
Wet Sample + Tare Wt, g	---	---	114.20	112.20	119.20	119.17	127.98	125.10	121.03	123.68	126.04	
Dried Sample + Tare Wt, g	---	---	66.80	65.71	66.91	67.88	66.17	67.71	67.92	67.16	65.93	
Tare Wt, g	---	---	66.67	65.60	66.78	67.75	66.02	67.58	67.79	67.02	65.76	
Water Wt, g	---	---	47.4	46.49	52.29	51.29	61.81	57.39	53.11	56.52	60.11	
Dried Sample Wt, g	---	---	0.13	0.11	0.13	0.13	0.15	0.13	0.13	0.14	0.17	
Salt Wt, g	---	---	0.029	0.028	0.032	0.031	0.037	0.035	0.032	0.034	0.036	
Particulates Wt, g	---	---	0.101	0.082	0.098	0.099	0.113	0.095	0.098	0.106	0.134	
Particulates Conc. (g/L)	---	---	2.1	1.8	1.9	1.9	1.8	1.7	1.8	1.9	2.2	

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GTX Project No.:	7143		
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Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	26	98	15	96								
Dry Particulates + Filter Paper Wt, g	0.0863	0.0850	0.0841	0.0960								
Filter Paper Wt, g	0.0746	0.0731	0.0700	0.0814								
Dry Particulates Wt, g	0.0117	0.0119	0.0141	0.0146								
Volume (mL)	130	126	128	130								
Particulates TSS Conc. (mg/L)	90.000	94.444	110.156	112.308								
Turbidity (NTU)	60	65	70	70								

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	17	18	59	69	25	72						
Dry Particulates + Filter Paper Wt, g	0.0744	0.0863	0.0840	0.0892	0.0913	0.0793						
Filter Paper Wt, g	0.0692	0.0822	0.0776	0.0811	0.0829	0.0693						
Dry Particulates Wt, g	0.0052	0.0041	0.0064	0.0081	0.0084	0.0100						
Volume (mL)	137	143	139	134	139	141						
Particulates TSS Conc. (mg/L)	37.956	28.671	46.043	60.448	60.432	70.922						
Turbidity (NTU)	24	21	32	37	34	40						

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	27	49	64	62	35	4	30	7	105			
Dry Particulates + Filter Paper Wt, g	0.0924	0.0867	0.0758	0.0834	0.0752	0.0882	0.0907	0.0970	0.0804			
Filter Paper Wt, g	0.0881	0.0814	0.0704	0.0777	0.0695	0.0822	0.0828	0.0878	0.0706			
Dry Particulates Wt, g	0.0043	0.0053	0.0054	0.0057	0.0057	0.0060	0.0079	0.0092	0.0098			
Volume (mL)	137	135	137	137	135	136	143	142	148			
Particulates TSS Conc. (mg/L)	31.387	39.259	39.416	41.606	42.222	44.118	55.245	64.789	66.216			
Turbidity (NTU)	17	17	19	18	20	20	21	26	26			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	64	65	84	61	38	44	72	21	123	118		
Dry Particulates + Filter Paper Wt, g	0.0862	0.0728	0.0863	0.0858	0.0860	0.0811	0.0868	0.0816	0.0828	0.0881		
Filter Paper Wt, g	0.0827	0.0701	0.0831	0.0827	0.0828	0.0779	0.0826	0.0777	0.0778	0.0825		
Dry Particulates Wt, g	0.0035	0.0027	0.0032	0.0031	0.0032	0.0032	0.0042	0.0039	0.0050	0.0056		
Volume (mL)	150	138	140	138	142	137	138	138	145	143		
Particulates TSS Conc. (mg/L)	23.333	19.565	22.857	22.464	22.535	23.358	30.435	28.261	34.483	39.161		
Turbidity (NTU)	8.9	8.2	9.1	8.4	10	7.4	11	11	17	22		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	36	7	26	38	44	84	61	72	18	65	29	
Dry Particulates + Filter Paper Wt, g	0.0864	0.0869	0.0865	0.0829	0.0868	0.0853	0.0871	0.0874	0.0887	0.0948	0.1218	
Filter Paper Wt, g	0.0798	0.0803	0.0802	0.0768	0.0812	0.0786	0.0802	0.0800	0.0787	0.0800	0.0782	
Dry Particulates Wt, g	0.0066	0.0066	0.0063	0.0061	0.0056	0.0067	0.0069	0.0074	0.0100	0.0148	0.0436	
Volume (mL)	134	134	137	141	136	142	139	140	137	137	126	
Particulates TSS Conc. (mg/L)	49.254	49.254	45.985	43.262	41.176	47.183	49.640	52.857	72.993	108.029	346.032	
Turbidity (NTU)	13	15	17	18	12	17	20	15	32	60	220	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	65	67	69	88	89	90	92	95	96	97	
Dry Particulates + Filter Paper Wt, g	---	0.0851	0.0828	0.0771	0.0880	0.0832	0.0831	0.0889	0.0786	0.0920	0.0912	
Filter Paper Wt, g	---	0.0822	0.0793	0.0748	0.0833	0.0797	0.0800	0.0849	0.0733	0.0855	0.0748	
Dry Particulates Wt, g	---	0.0029	0.0035	0.0023	0.0047	0.0035	0.0031	0.0040	0.0053	0.0065	0.0164	
Volume (mL)	---	140	138	132	143	136	137	138	140	134	147	
Particulates TSS Conc. (mg/L)	---	20.714	25.362	17.424	32.867	25.735	22.628	28.986	37.857	48.507	111.565	
Turbidity (NTU)	---	12	13	12	19	14	15	18	23	33	75	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	101	101A	102	102A	103	103A	104A	105	105A	106	
Dry Particulates + Filter Paper Wt, g	---	0.0789	0.0836	0.0847	0.0826	0.0823	0.0844	0.0850	0.0853	0.0837	0.0889	
Filter Paper Wt, g	---	0.0762	0.0798	0.0807	0.0783	0.0789	0.0804	0.0801	0.0798	0.0780	0.0788	
Dry Particulates Wt, g	---	0.0027	0.0038	0.0040	0.0043	0.0034	0.0040	0.0049	0.0055	0.0057	0.0101	
Volume (mL)	---	137	136	132	140	135	134	136	136	137	146	
Particulates TSS Conc. (mg/L)	---	19.708	27.941	30.303	30.714	25.185	29.851	36.029	40.441	41.606	69.178	
Turbidity (NTU)	---	7.6	12	16	13	9.6	17	16	17	21	40	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	203	204	205	206	18	35	191	153	36	202	
Dry Particulates + Filter Paper Wt, g	---	0.0838	0.0824	0.0816	0.0815	0.0835	0.0823	0.0839	0.0828	0.0834	0.0845	
Filter Paper Wt, g	---	0.0804	0.0803	0.0800	0.0795	0.0818	0.0805	0.0818	0.0806	0.0805	0.0791	
Dry Particulates Wt, g	---	0.0034	0.0021	0.0016	0.0020	0.0017	0.0018	0.0021	0.0022	0.0029	0.0054	
Volume (mL)	---	140	142	147	136	136	142	140	139	141	138	
Particulates TSS Conc. (mg/L)	---	24.286	14.789	10.884	14.706	12.500	12.676	15.000	15.827	20.567	39.130	
Turbidity (NTU)	---	6.2	3.6	3.4	3.8	3.5	4.0	4.6	5.6	8.9	18	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-10119	CST Test #:	3
Test Start Date:	2/20/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	4	11	28	62	70	100	179	208	210	
Dry Particulates + Filter Paper Wt, g	---	---	0.0858	0.0845	0.0834	0.0853	0.0851	0.0844	0.0866	0.0841	0.0902	
Filter Paper Wt, g	---	---	0.0813	0.0803	0.0798	0.0826	0.0803	0.0803	0.0802	0.0782	0.0831	
Dry Particulates Wt, g	---	---	0.0045	0.0042	0.0036	0.0027	0.0048	0.0041	0.0064	0.0059	0.0071	
Volume (mL)	---	---	142	143	140	138	144	141	144	140	149	
Particulates TSS Conc. (mg/L)	---	---	31.690	29.371	25.714	19.565	33.333	29.078	44.444	42.143	47.651	
Turbidity (NTU)	---	---	17	6.5	10.0	8.6	10.0	13	13	11	21	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-10119		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50268		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-10119	---	Moist, yellow silt	92.2

Notes: Temperature of Drying : 110° Celsius

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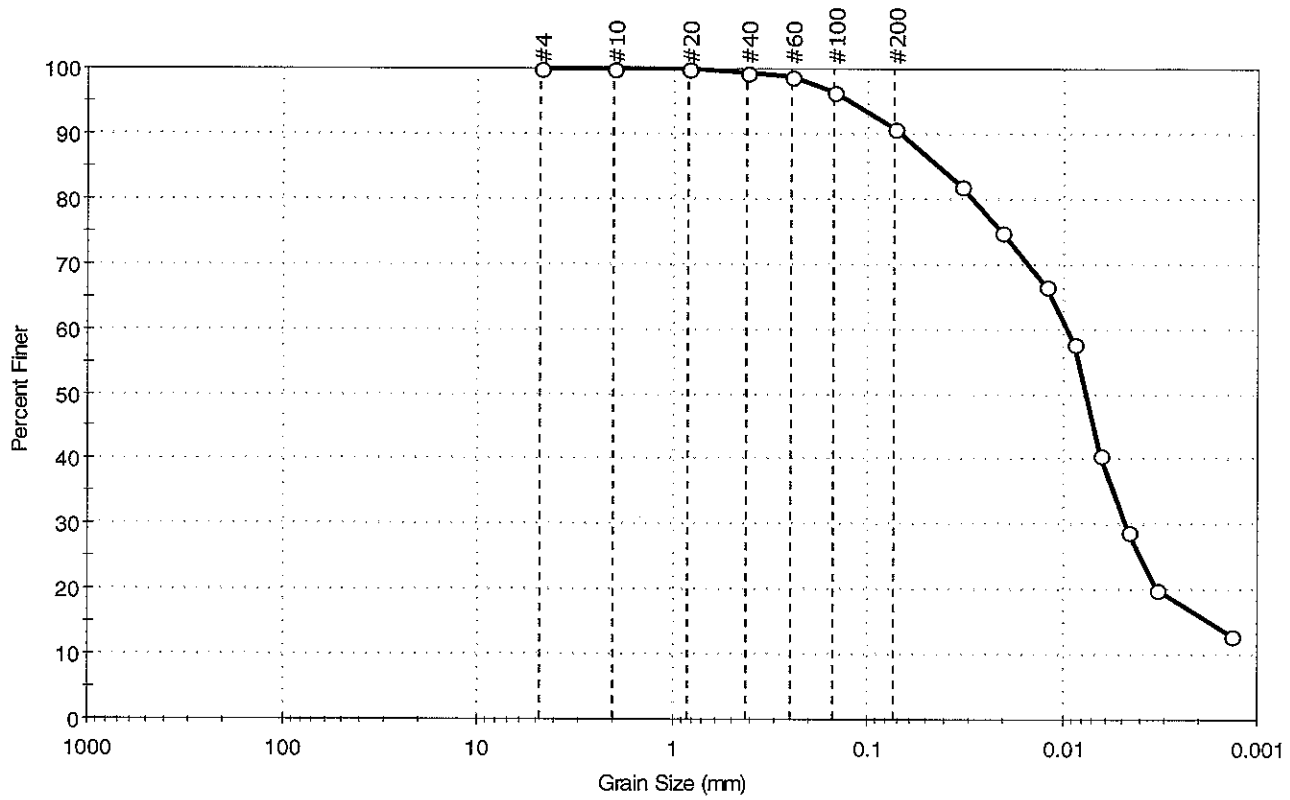
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-10119	Test Date: 04/03/07	Checked By:	jdt
Depth : ---	Test Id: 109692		
Test Comment: ---			
Sample Description: Moist, yellow silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	9.1	90.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	99		
#100	0.15	96		
#200	0.074	91		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0334	82		
---	0.0206	75		
---	0.0122	67		
---	0.0087	58		
---	0.0064	41		
---	0.0046	29		
---	0.0033	20		
---	0.0014	13		

Coefficients

D_{85} =0.0439 mm	D_{30} =0.0048 mm
D_{60} =0.0095 mm	D_{15} =0.0018 mm
D_{50} =0.0075 mm	D_{10} =0.0010 mm
C_u =N/A	C_c =N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (31))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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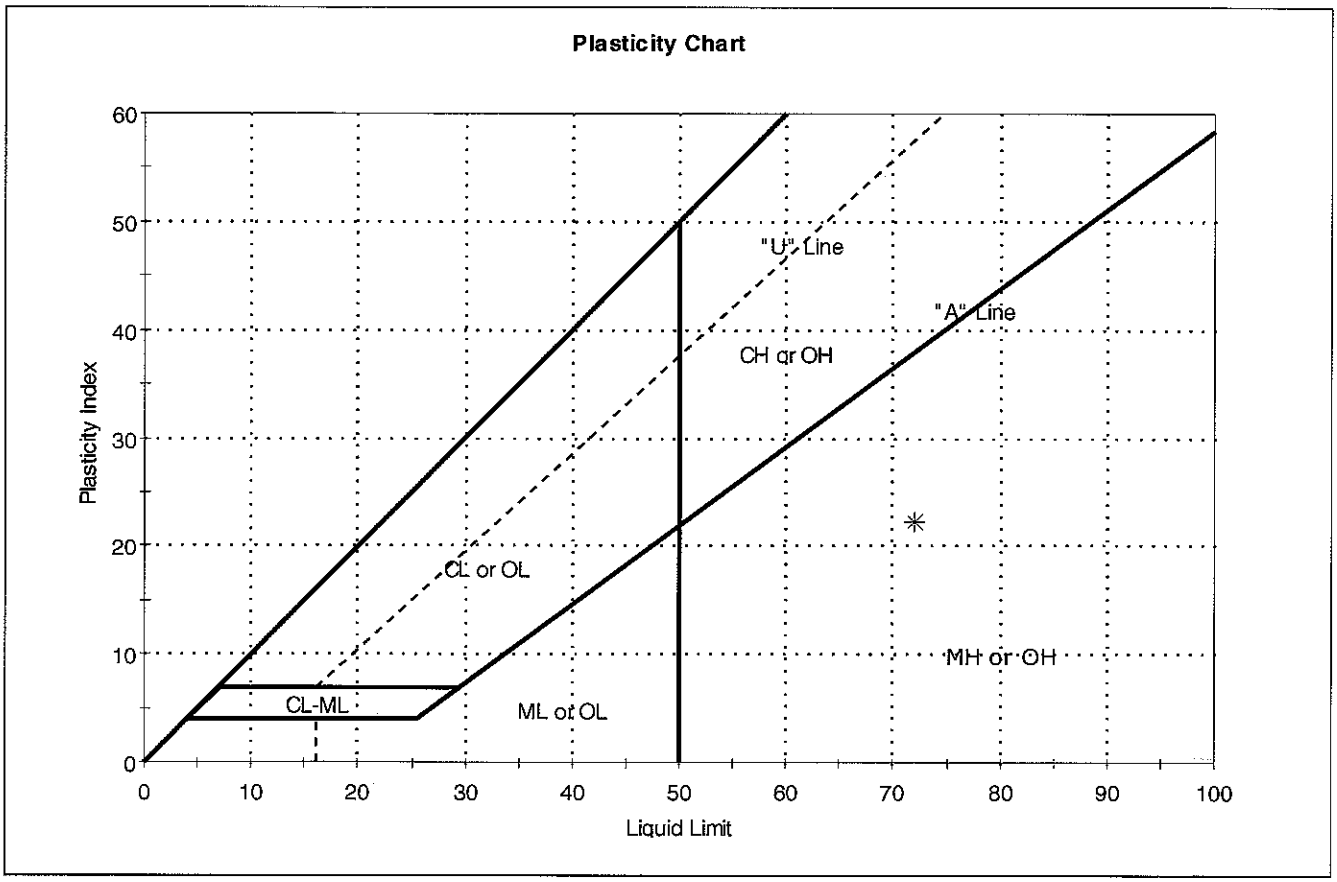
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-10119	Test Date:	04/16/07	Checked By:	jdt
Depth :	---	Test Id:	109709		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-10119	---	---	92	72	50	22	2	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: MEDIUM
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	rmt
Sample ID:OL-STA-10119		Test Date:	04/06/07	Checked By:	jdt
Depth : ---		Test Id:	109743		
Test Comment:	---				
Sample Description:	Moist, yellow silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-10119	---	Moist, yellow silt	2.6

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/06/07
Tested by:	md
Checked by:	jdt

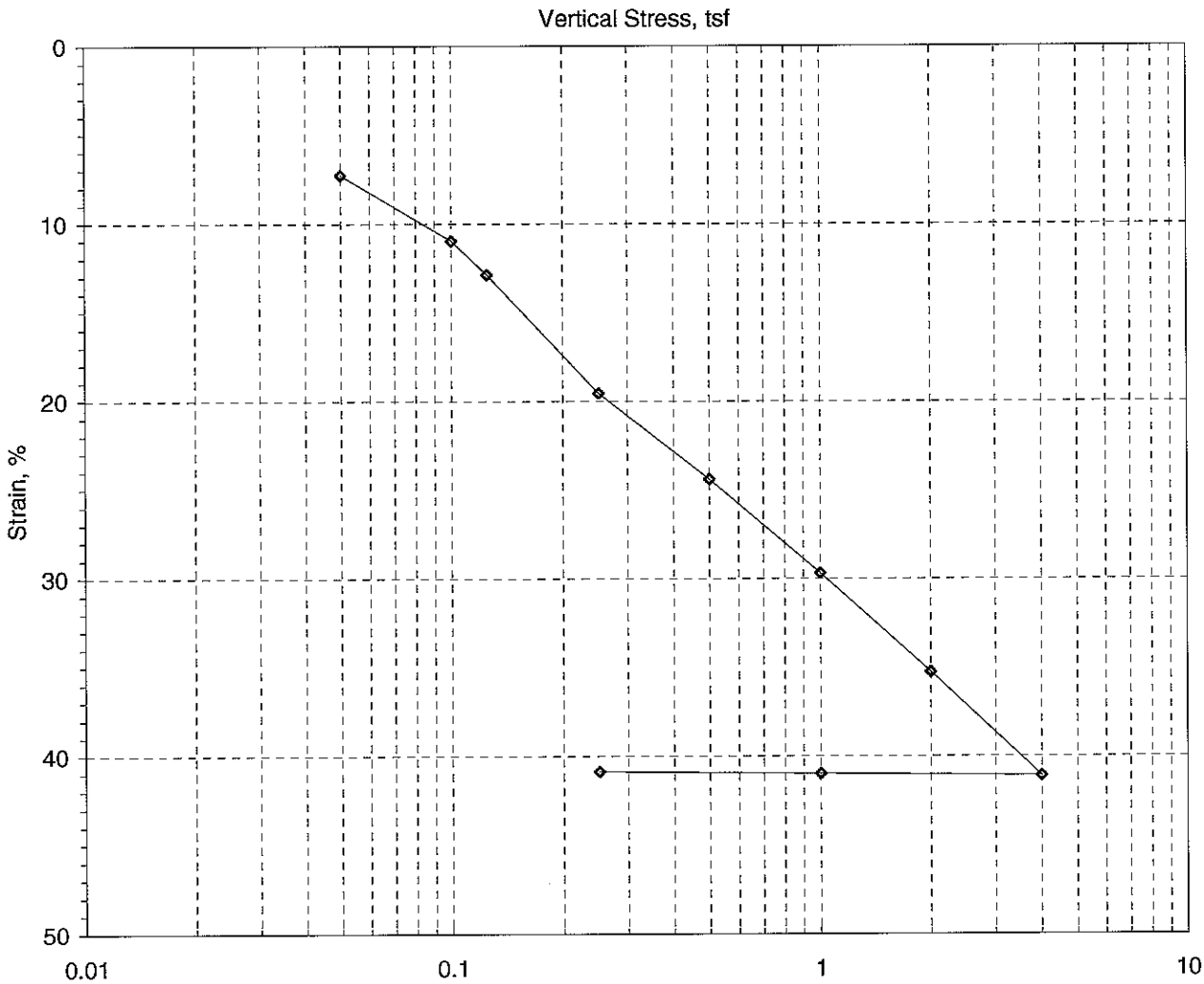
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-10119	Moist, yellow silt	0.41	0.36	0.37	0.38	0.38

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	169.4	83.7
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	30.0	50.7
Compression Index:	---			Saturation, %	99.7	98.9
Diameter:	11.0 in	Initial Height: 9.55 in		Void Ratio	4.41	2.20
LL: 72	PL: 50	22	2.6			

GeoTesting express, a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10119
Test No.:CST 3 (LC-1)

Location: Syracuse, NY
Tested By: md
Test Date: 03/08/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, yellow silt
Remarks: System P

Measured Specific Gravity: 2.60
Initial Void Ratio: 4.41
Final Void Ratio: 2.20

Liquid Limit: 72
Plastic Limit: 50
Plasticity Index: 22

Initial Height: 9.55 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		2754	RING		valve
Wt. Container + Wet Soil,	gm	230.93	35480	29360	182.04
Wt. Container + Dry Soil,	gm	147.61	23381	23381	102.69
Wt. Container, gm		102.68	16240	16240	7.92
Wt. Dry Soil, gm		44.93	7141	7141	94.77
Water Content, %		185.4	169.4	83.7	83.7
Void Ratio		---	4.41	2.20	---
Degree of Saturation, %		---	99.8	98.9	---
Dry Unit Weight, pcf		---	30.0	50.7	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 10119
Test No.: CST 3 (LC-1)

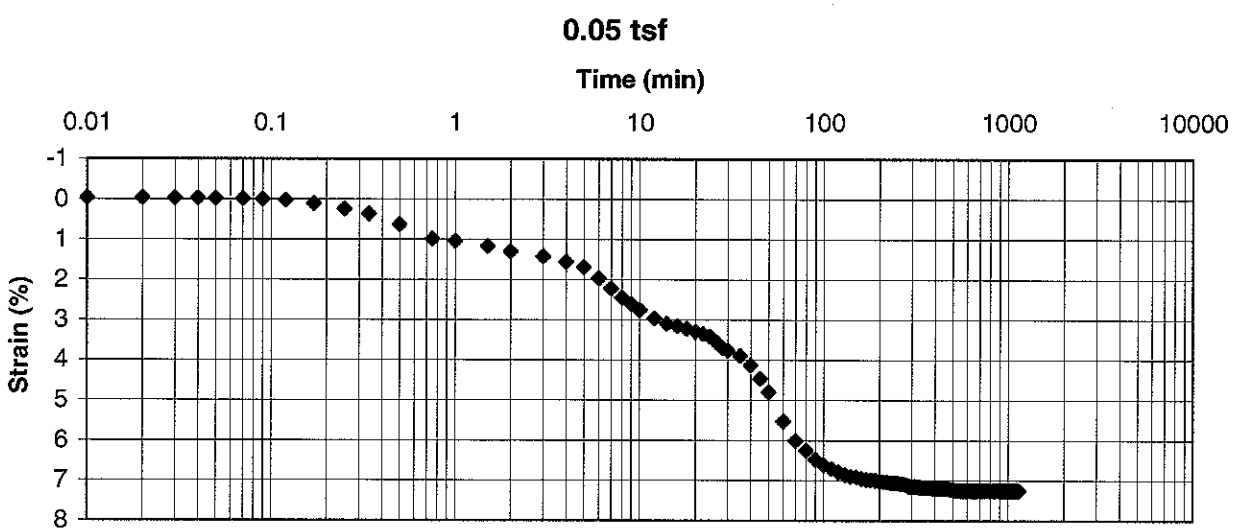
Location: Syracuse, NY
Tested By: md
Test Date: 03/08/07
Sample Type: Column

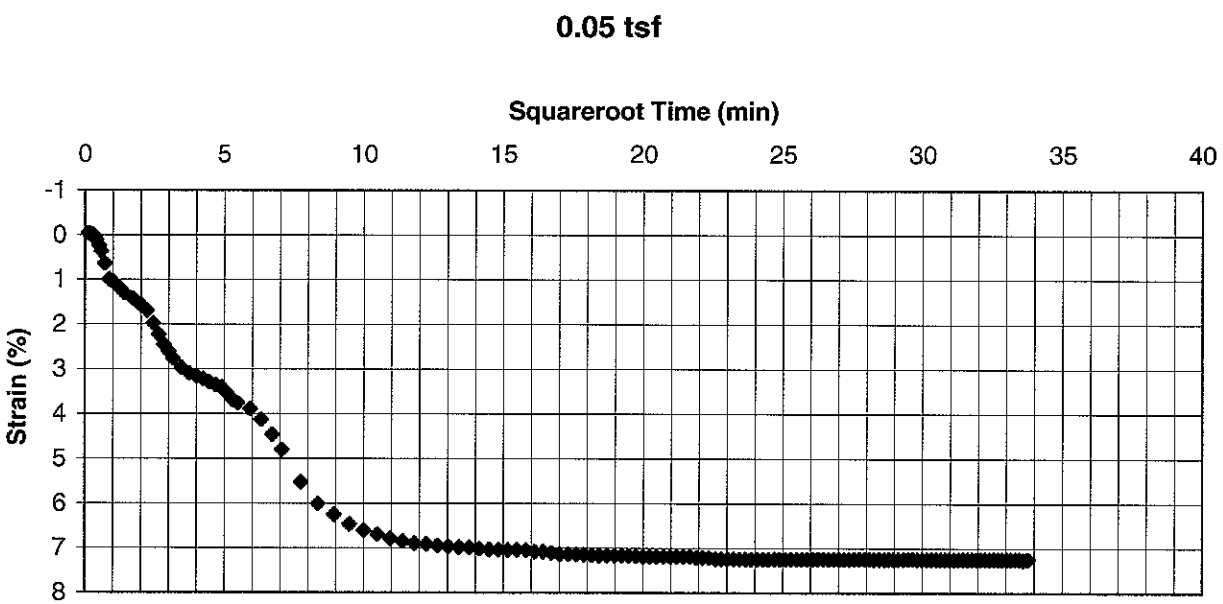
Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, yellow silt
Remarks: System P

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0.693	4.022	7.254	23.3	0	1.19E-02	0.00E+00	1.19E-02
2	0.1	1.046	3.822	10.953	50.4	0	4.92E-03	0.00E+00	4.92E-03
3	0.125	1.229	3.718	12.869	27.2	20.1	8.57E-03	1.16E-02	9.86E-03
4	0.25	1.866	3.357	19.539	30.1	0	7.00E-03	0.00E+00	7.00E-03
5	0.5	2.330	3.093	24.395	11.5	0	1.21E-03	0.00E+00	1.21E-03
6	1	2.834	2.807	29.680	7.5	10.4	4.09E-02	2.95E-02	3.43E-02
7	2	3.367	2.505	35.258	5	0	5.50E-02	0.00E+00	5.50E-02
8	4	3.924	2.189	41.089	4.4	6.4	5.50E-02	3.81E-02	4.51E-02
9	1	3.912	2.196	40.963	0	0	6.89E+00	0.00E+00	6.89E+00
10	0.25	3.902	2.201	40.859	0.2	0	1.37E+00	5.45E+00	2.19E+00

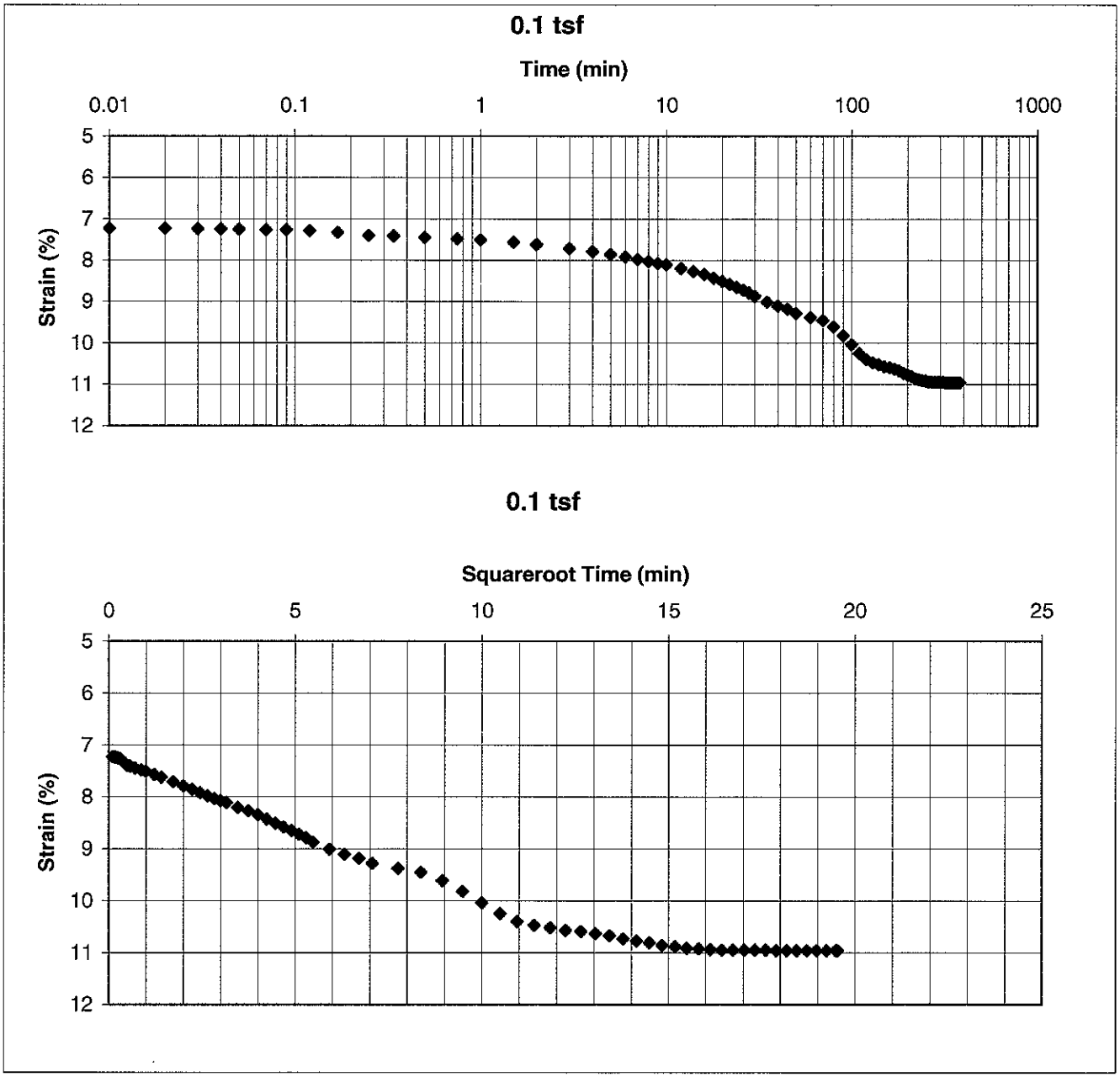
CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

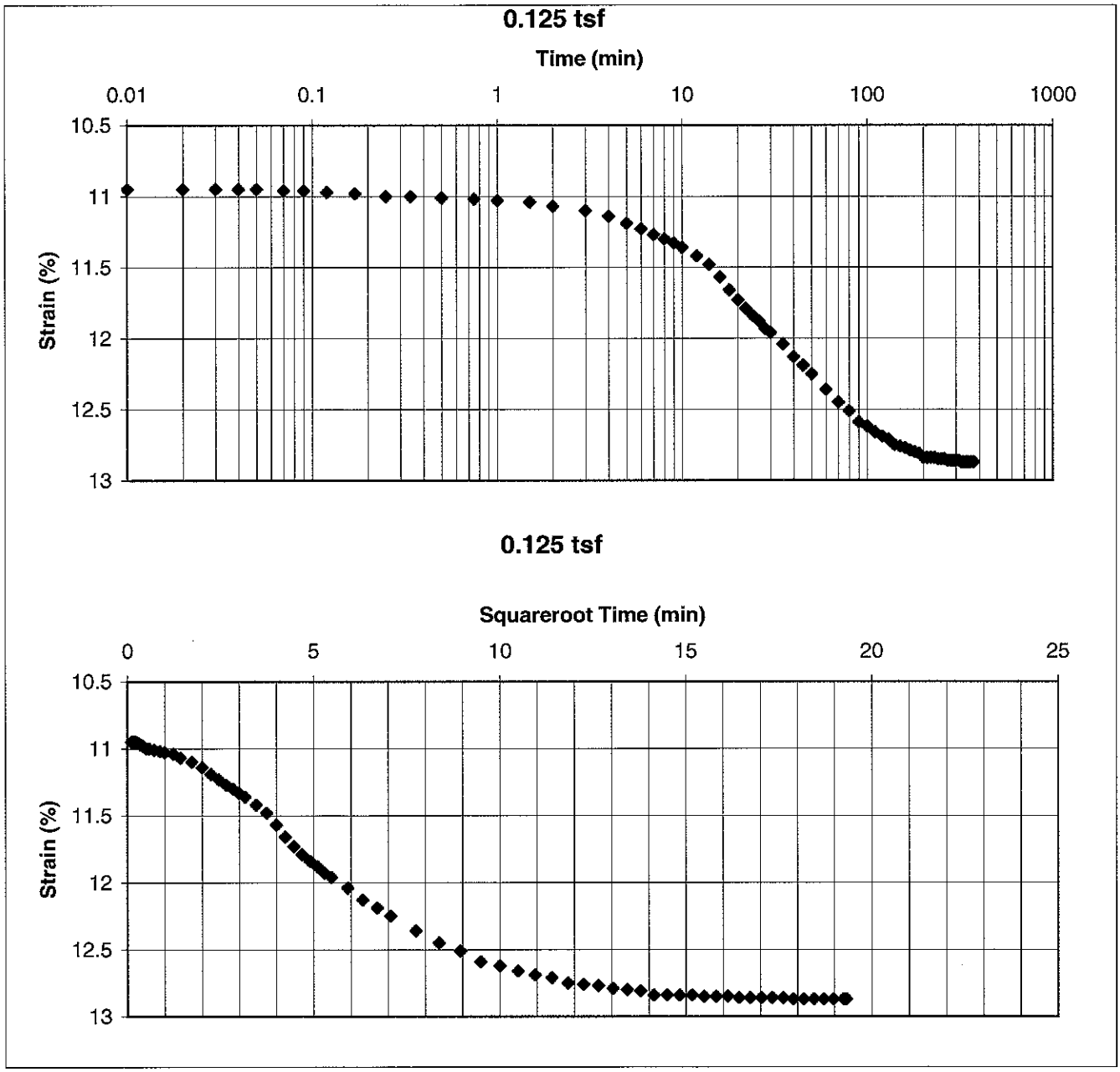
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

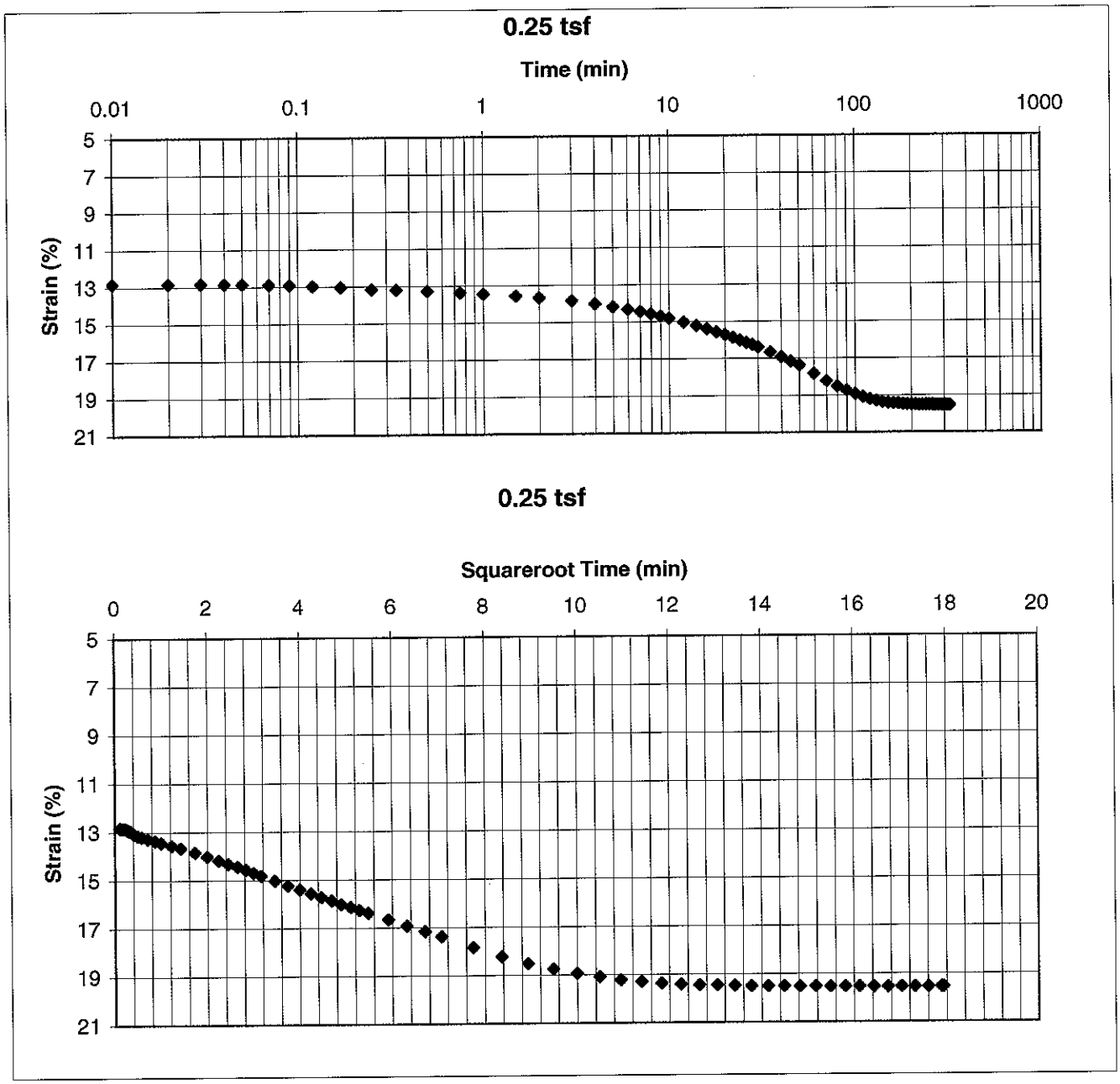
CONSOLIDATION TEST DATA

TIME CURVES



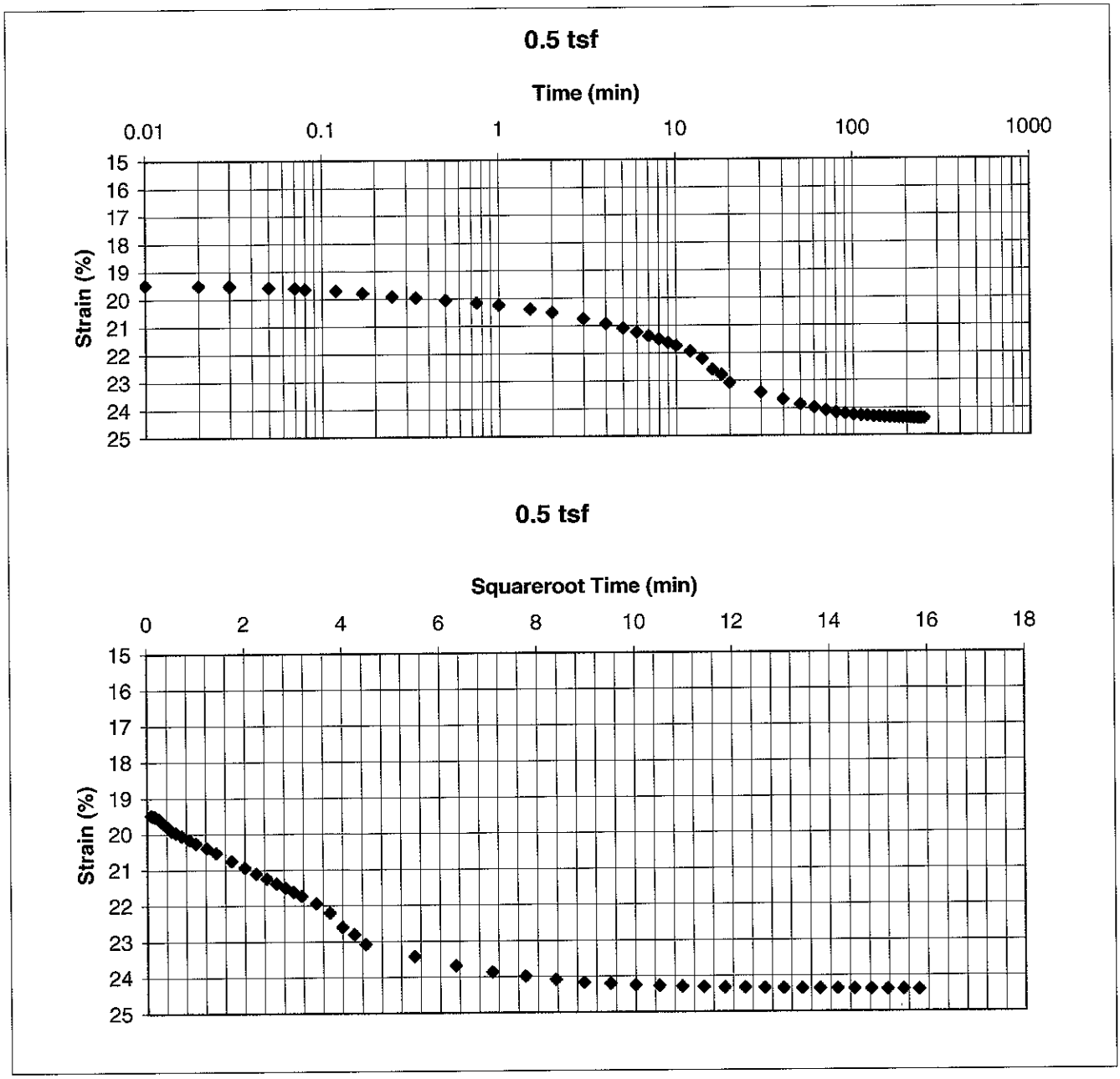
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



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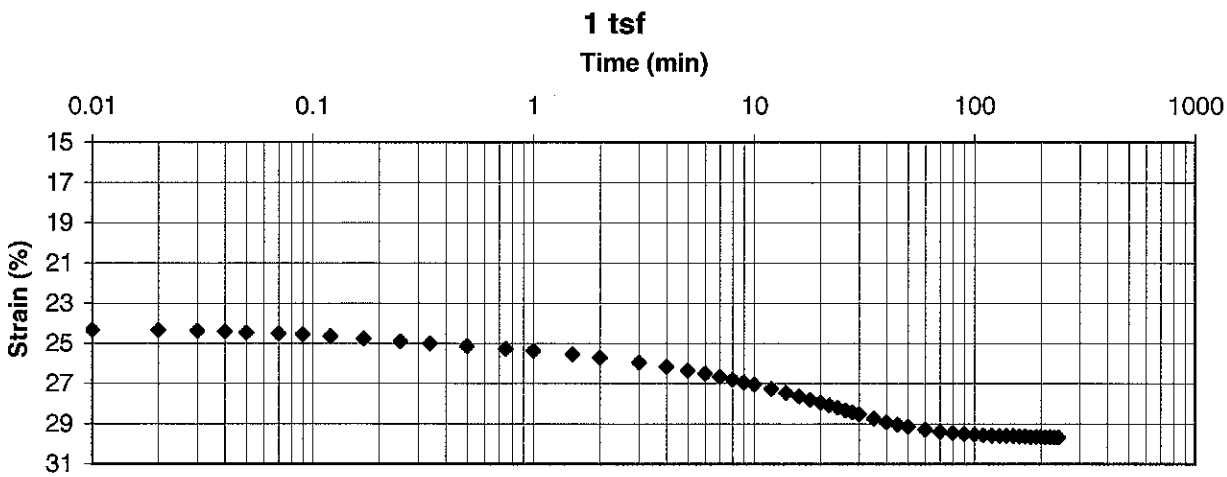
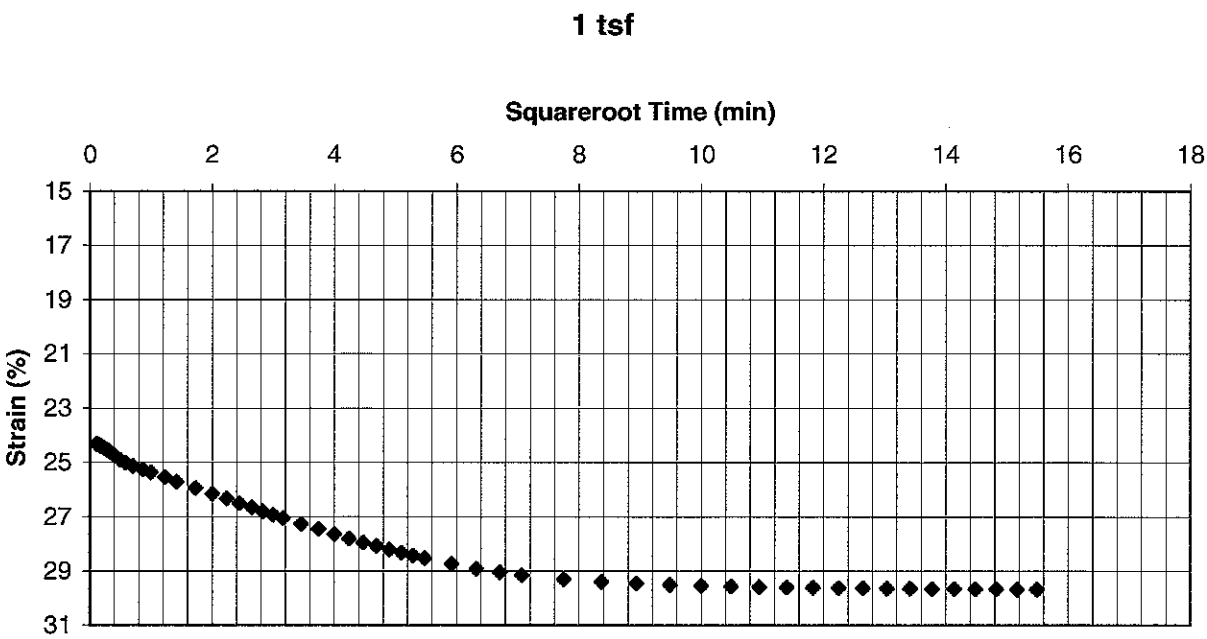
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
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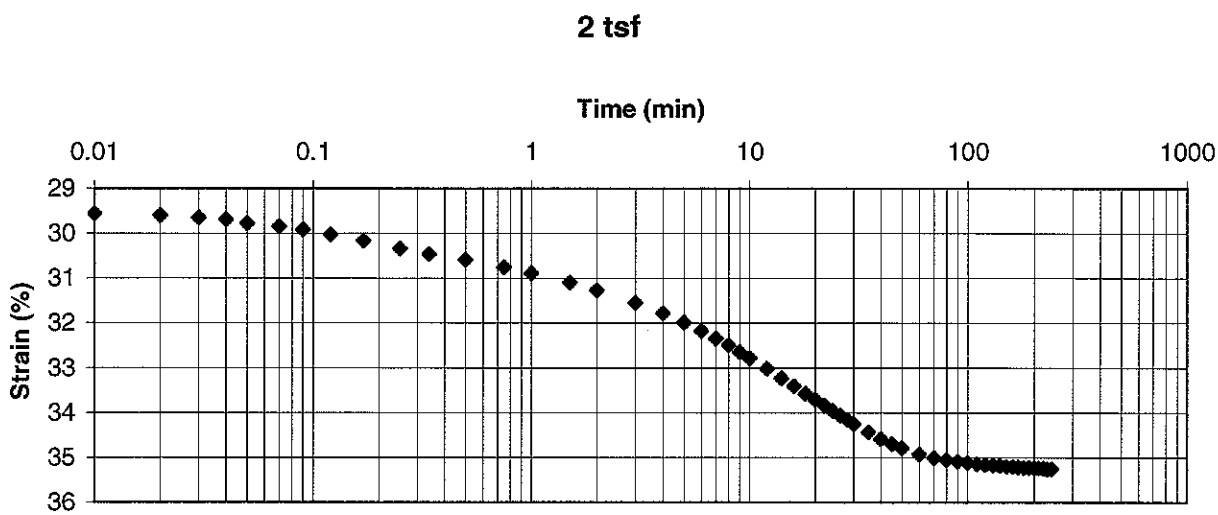
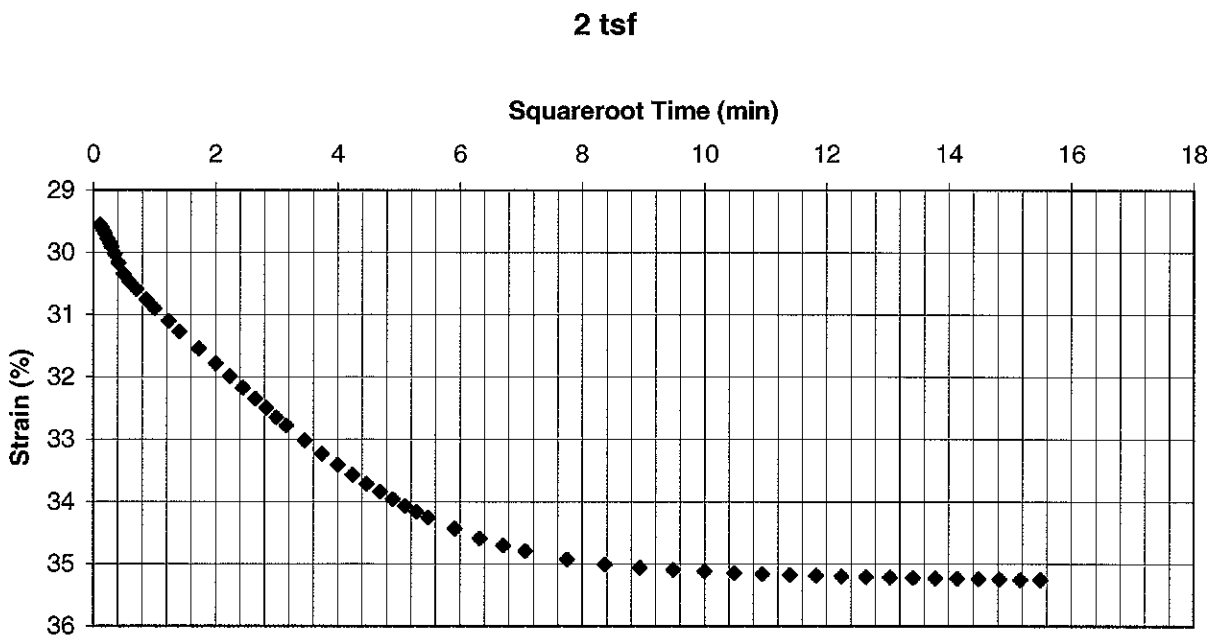
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





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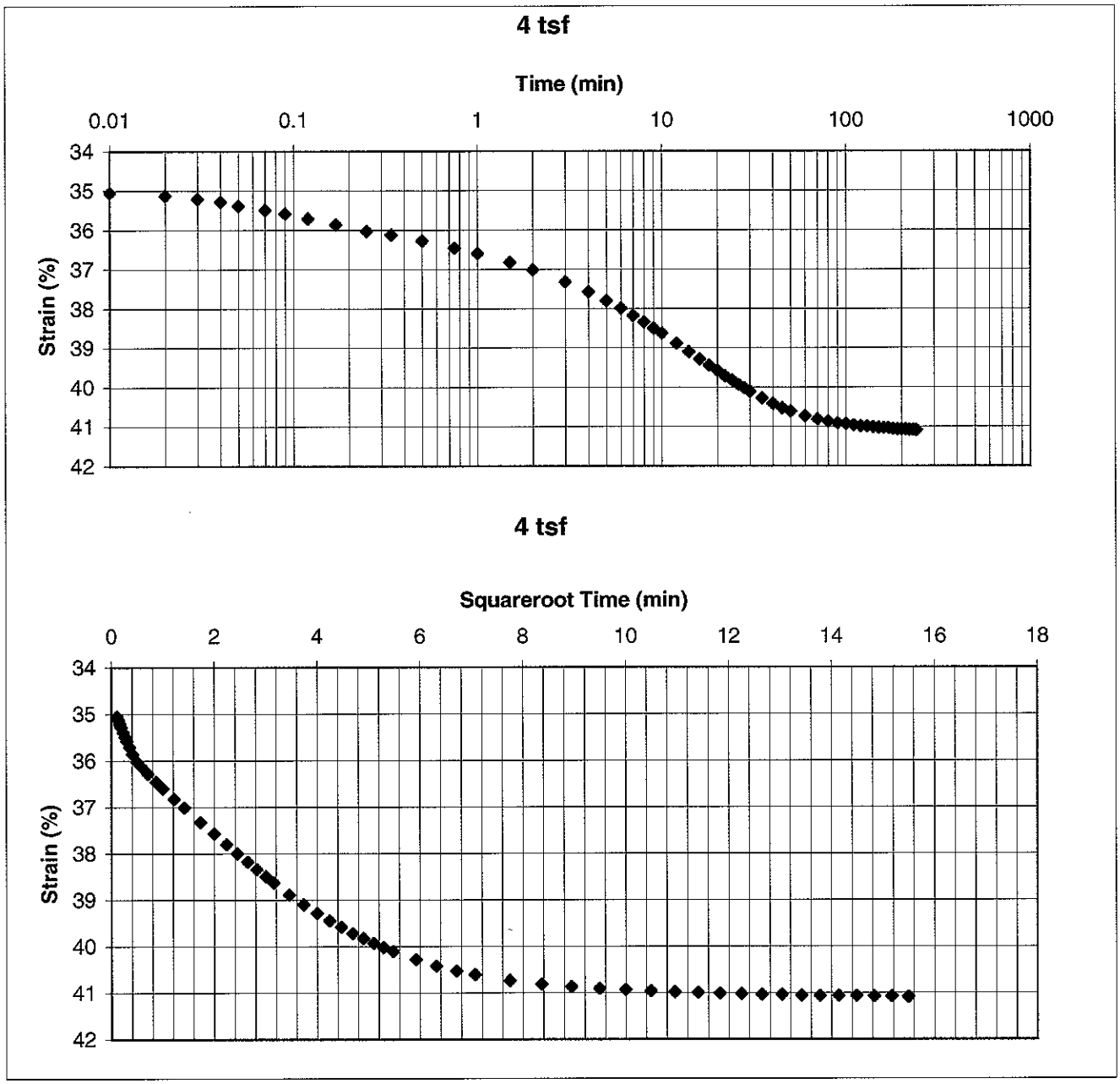
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 10119	Test Date:	3/12/2007	Depth:	---
	Test No.: CST 3 (LC-1)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, yellow silt				
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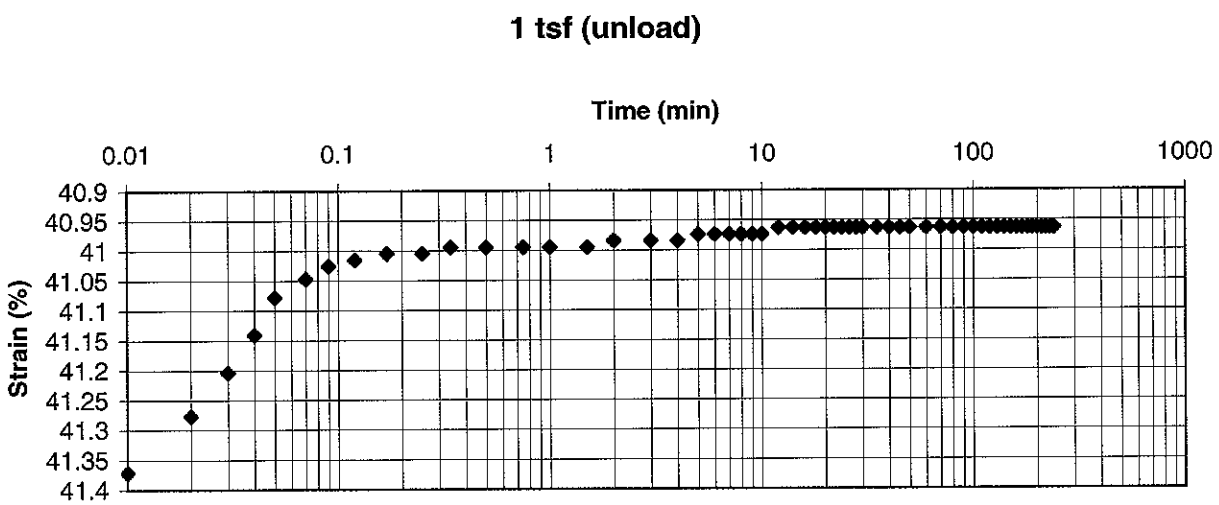
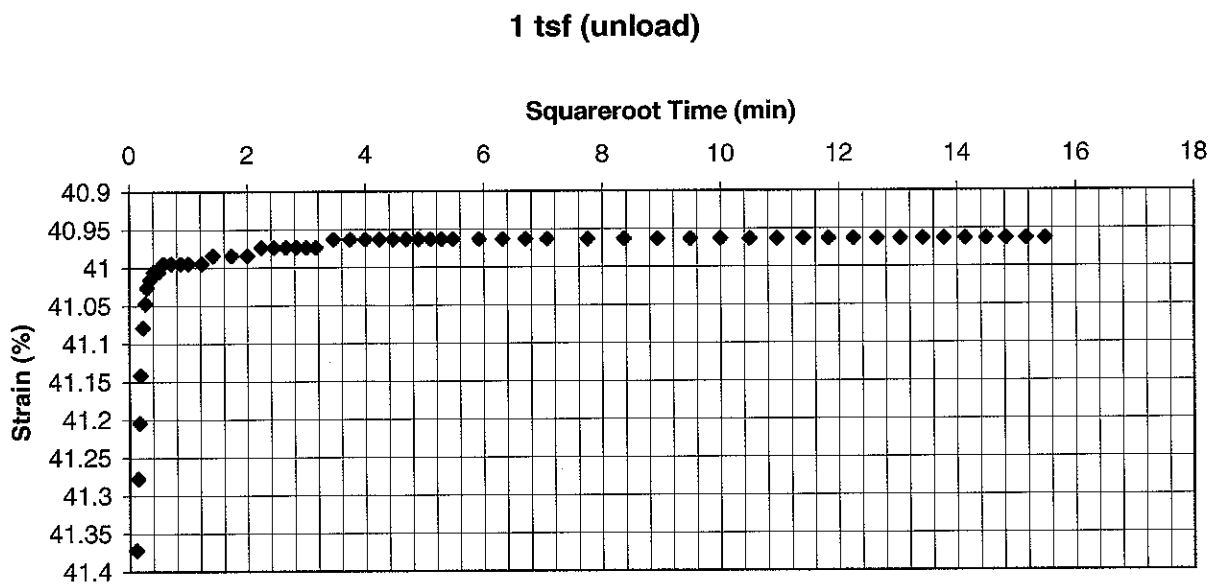
CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
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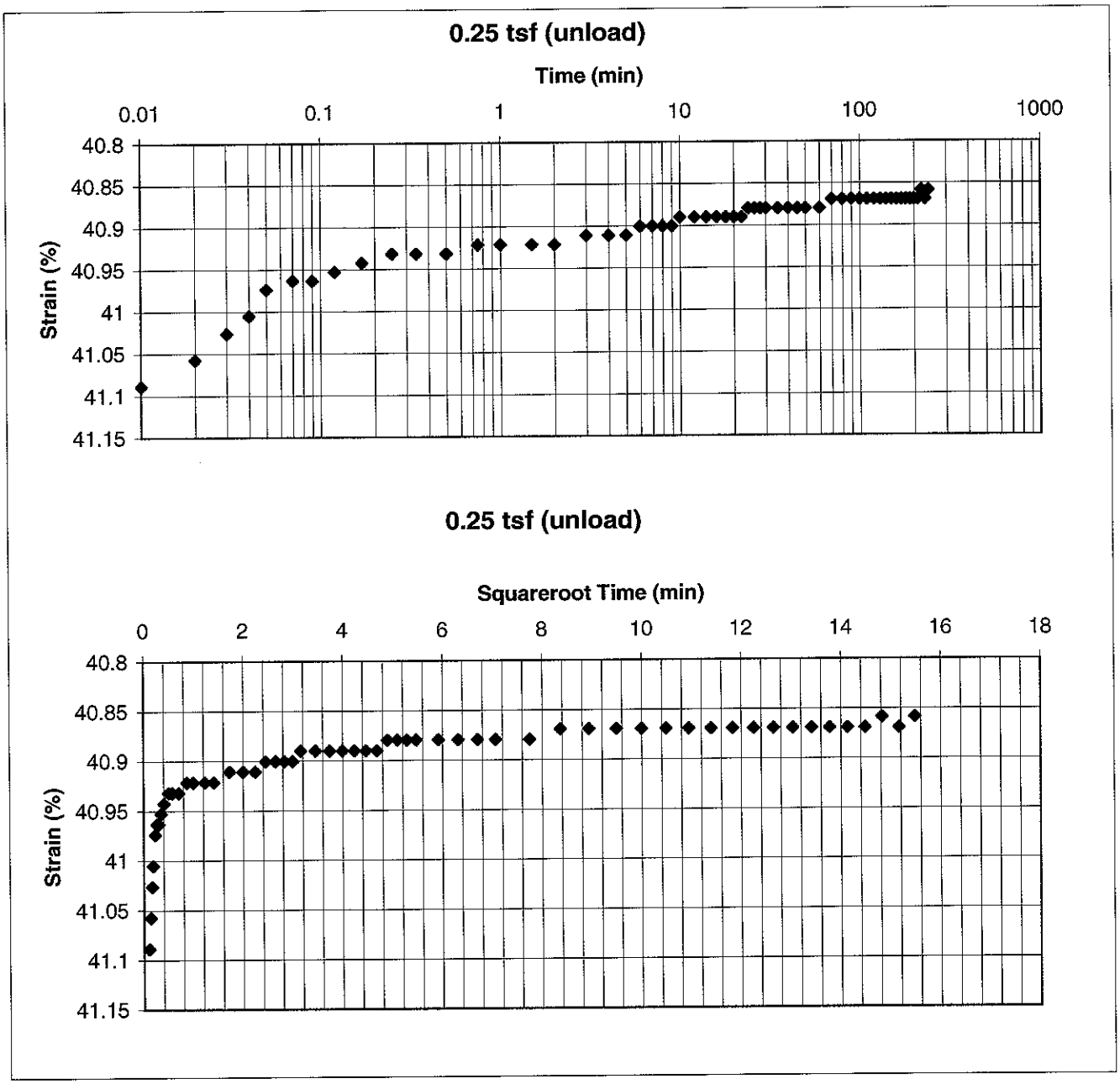
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
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	Soil Description: Moist, yellow silt				
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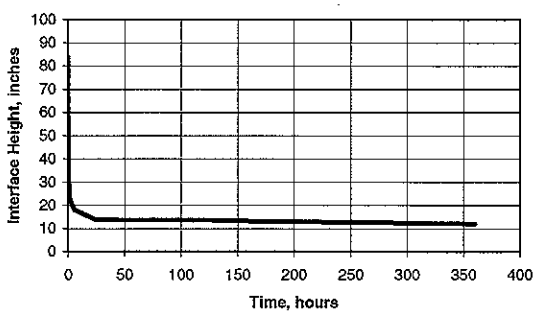
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32 AM	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
04/18/07	9:32 AM	0	0.00	84.2	84.2		
	9:34 AM	2	0.03	84.2	80.0		
	9:35 AM	3	0.05	84.2	75.0		
	9:36 AM	4	0.07	84.2	72.0		
	9:37 AM	5	0.08	84.2	69.0		
	9:40 AM	8	0.13	84.2	62.0		
	9:42 AM	10	0.17	84.2	55.0		
	9:44 AM	12	0.20	84.2	51.8		
	9:45 AM	13	0.22	84.2	49.9		
	9:48 AM	16	0.27	84.2	47.0		
	9:51 AM	19	0.32	84.2	44.0		
	10:23 AM	51	0.85	84.2	28.2		
	11:03 AM	91	1.52	84.2	23.8		
	11:34 AM	122	2.03	82.0	22.5		
	12:14 PM	162	2.70	82.0	21.4		
	12:54 PM	202	3.37	82.0	20.3		
	1:30 PM	238	3.97	81.9	19.6		
	2:30 PM	298	4.97	81.9	18.6		
	3:30 PM	358	5.97	80.8	17.9		
04/19/07	9:20 AM	1428	23.80	79.4	14.0		
04/20/07	9:30 AM	2868	47.80	77.9	13.7		
04/23/07	9:30 AM	7188	119.80	77.9	13.6		
04/24/07	9:35 AM	8633	143.88	74.9	13.2		
04/26/07	9:15 AM	11533	192.22	74	13.0		
05/03/07	9:30 AM	21628	360.47	73.1	12.0		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	183	120	110									
Wet Sample + Tare Wt, g	160.16	142.60	143.24									
Dried Sample + Tare Wt, g	72.78	70.97	70.86									
Tare Wt, g	66.94	66.16	66.21									
Water Wt, g	87.38	71.63	72.38									
Dried Sample Wt, g	5.84	4.81	4.65									
Salt Wt, g	0.055	0.045	0.045									
Particulates Wt, g	5.785	4.765	4.605									
Particulates Conc. (g/L)	64.5	64.8	62.0									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	177	19	59	77	162	166	155	199	99A			
Wet Sample + Tare Wt, g	109.63	109.60	104.69	111.04	111.55	106.37	108.65	115.47	113.76			
Dried Sample + Tare Wt, g	67.10	66.99	67.94	67.77	66.91	66.81	67.17	67.02	67.29			
Tare Wt, g	66.90	66.79	67.79	67.57	66.71	66.63	66.99	66.80	67.09			
Water Wt, g	42.53	42.61	36.75	43.27	44.64	39.56	41.48	48.45	46.47			
Dried Sample Wt, g	0.20	0.20	0.15	0.20	0.20	0.18	0.18	0.22	0.20			
Salt Wt, g	0.027	0.027	0.023	0.027	0.028	0.025	0.026	0.030	0.029			
Particulates Wt, g	0.173	0.173	0.127	0.173	0.172	0.155	0.154	0.190	0.171			
Particulates Conc. (g/L)	4.1	4.1	3.5	4.0	3.8	3.9	3.7	3.9	3.7			

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Project Location:	Syracuse, NY		
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Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	92	113	23	1	93	207	3	175	26	108		
Wet Sample + Tare Wt, g	103.99	103.85	107.30	109.46	107.21	109.89	108.79	111.27	111.27	107.01		
Dried Sample + Tare Wt, g	67.86	65.56	68.54	68.16	66.60	67.57	66.45	67.56	67.24	67.87		
Tare Wt, g	67.68	65.39	68.35	67.99	66.41	67.37	66.25	67.37	67.03	67.69		
Water Wt, g	36.13	38.29	38.76	41.30	40.61	42.32	42.34	43.71	44.03	39.14		
Dried Sample Wt, g	0.18	0.17	0.19	0.17	0.19	0.20	0.20	0.19	0.21	0.18		
Salt Wt, g	0.023	0.024	0.024	0.026	0.025	0.026	0.026	0.027	0.028	0.024		
Particulates Wt, g	0.157	0.146	0.166	0.144	0.165	0.174	0.174	0.163	0.182	0.156		
Particulates Conc. (g/L)	4.3	3.8	4.3	3.5	4.0	4.1	4.1	3.7	4.1	4.0		

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	79	34	157	41	160	66	118	107	42	72		
Wet Sample + Tare Wt, g	100.76	103.11	108.25	110.87	105.75	111.64	110.99	119.36	115.85	115.45		
Dried Sample + Tare Wt, g	67.94	66.54	68.08	66.21	67.14	67.92	66.19	66.51	67.55	67.78		
Tare Wt, g	67.79	66.37	67.91	66.01	66.96	67.72	65.98	66.30	67.36	67.56		
Water Wt, g	32.82	36.57	40.17	44.66	38.61	43.72	44.80	52.85	48.30	47.67		
Dried Sample Wt, g	0.15	0.17	0.17	0.20	0.18	0.20	0.21	0.21	0.19	0.22		
Salt Wt, g	0.021	0.023	0.025	0.028	0.024	0.027	0.028	0.033	0.030	0.030		
Particulates Wt, g	0.129	0.147	0.145	0.172	0.156	0.173	0.182	0.177	0.160	0.190		
Particulates Conc. (g/L)	3.9	4.0	3.6	3.8	4.0	3.9	4.1	3.3	3.3	4.0		

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	97	173	163	95	195	61	38	151	15	89	43	
Wet Sample + Tare Wt, g	102.55	111.04	107.55	107.22	109.94	109.85	106.50	115.03	113.66	116.50	115.53	
Dried Sample + Tare Wt, g	67.50	68.66	68.46	66.19	68.25	68.11	66.37	67.89	68.33	66.39	67.76	
Tare Wt, g	67.37	68.49	68.31	66.01	68.08	67.96	66.21	67.68	68.11	66.16	67.56	
Water Wt, g	35.05	42.38	39.09	41.03	41.69	41.74	40.13	47.14	45.33	50.11	47.77	
Dried Sample Wt, g	0.13	0.17	0.15	0.18	0.17	0.15	0.16	0.21	0.22	0.23	0.20	
Salt Wt, g	0.022	0.027	0.024	0.026	0.026	0.026	0.025	0.029	0.028	0.031	0.030	
Particulates Wt, g	0.108	0.143	0.126	0.154	0.144	0.124	0.135	0.181	0.192	0.199	0.170	
Particulates Conc. (g/L)	3.1	3.4	3.2	3.8	3.4	3.0	3.4	3.8	4.2	4.0	3.6	

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	86	2	201	17	74	16	103A	204	190	121	
Wet Sample + Tare Wt, g		104.46	106.43	112.92	109.40	110.73	110.04	110.87	115.26	125.49	115.57	
Dried Sample + Tare Wt, g		68.08	68.09	66.82	67.02	68.01	67.55	68.35	67.58	68.12	68.31	
Tare Wt, g		67.92	67.91	66.62	66.83	67.81	67.34	68.15	67.38	67.86	68.09	
Water Wt, g		36.38	38.34	46.10	42.38	42.72	42.49	42.52	47.68	57.37	47.26	
Dried Sample Wt, g		0.16	0.18	0.20	0.19	0.20	0.21	0.20	0.20	0.26	0.22	
Salt Wt, g		0.023	0.024	0.029	0.027	0.027	0.027	0.027	0.030	0.036	0.030	
Particulates Wt, g		0.137	0.156	0.171	0.163	0.173	0.183	0.173	0.170	0.224	0.190	
Particulates Conc. (g/L)		3.8	4.1	3.7	3.9	4.0	4.3	4.1	3.6	3.9	4.0	

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Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	----	75	181	189	27	88	85	176	84	90	194	
Wet Sample + Tare Wt, g		105.60	110.84	107.31	111.74	113.28	112.98	113.41	117.72	121.36	120.28	
Dried Sample + Tare Wt, g		68.32	67.98	67.37	66.01	67.94	67.86	67.71	67.56	68.33	68.4	
Tare Wt, g		68.13	67.80	67.19	65.78	67.72	67.65	67.49	67.33	68.08	68.15	
Water Wt, g		37.28	42.86	39.94	45.73	45.34	45.12	45.7	50.16	53.03	51.88	
Dried Sample Wt, g		0.19	0.18	0.18	0.23	0.22	0.21	0.22	0.23	0.25	0.25	
Salt Wt, g		0.023	0.027	0.025	0.029	0.028	0.028	0.029	0.031	0.033	0.032	
Particulates Wt, g		0.167	0.153	0.155	0.201	0.192	0.182	0.191	0.199	0.217	0.218	
Particulates Conc. (g/L)		4.5	3.6	3.9	4.4	4.2	4.0	4.2	4.0	4.1	4.2	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		180	54	156	6	71	101	209	197	960	174	
Wet Sample + Tare Wt, g		117.46	115.47	112.70	120.65	116.53	120.73	115.59	125.63	138.89	134.54	
Dried Sample + Tare Wt, g		68.06	67.63	66.82	67.29	67.80	68.29	67.23	68.09	68.11	67.37	
Tare Wt, g		67.85	67.43	66.62	67.10	67.60	68.08	67.04	67.85	67.78	67.05	
Water Wt, g		49.4	47.84	45.88	53.36	48.73	52.44	48.36	57.54	70.78	67.17	
Dried Sample Wt, g		0.21	0.2	0.2	0.19	0.2	0.21	0.19	0.24	0.33	0.32	
Salt Wt, g		0.031	0.030	0.029	0.033	0.030	0.033	0.030	0.036	0.044	0.042	
Particulates Wt, g		0.179	0.170	0.171	0.157	0.170	0.177	0.160	0.204	0.286	0.278	
Particulates Conc. (g/L)		3.6	3.5	3.7	2.9	3.5	3.4	3.3	3.5	4.0	4.1	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	11	100	191	61	195	193	169	42	204	153	xxx
Wet Sample + Tare Wt, g		103.24	106.56	109.3	107.89	110.52	110.48	109.42	111.91	120.61	111.64	
Dried Sample + Tare Wt, g		65.96	68.55	67	68.11	68.25	67.05	67.14	67.53	67.61	68.11	
Tare Wt, g		65.81	68.39	66.83	67.94	68.07	66.88	66.97	67.34	67.38	67.94	
Water Wt, g		37.28	38.01	42.3	39.78	42.27	43.43	42.28	44.38	53	43.53	
Dried Sample Wt, g		0.15	0.16	0.17	0.17	0.18	0.17	0.17	0.19	0.23	0.17	
Salt Wt, g		0.023	0.024	0.026	0.025	0.026	0.027	0.026	0.028	0.033	0.027	
Particulates Wt, g		0.127	0.136	0.144	0.145	0.154	0.143	0.144	0.162	0.197	0.143	
Particulates Conc. (g/L)		3.4	3.6	3.4	3.6	3.6	3.3	3.4	3.7	3.7	3.3	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	xxx	93	77	197	85	75	175	3	1	26	
Wet Sample + Tare Wt, g			103.47	111.78	112.3	111.67	114.83	117.8	112.41	112.98	116.32	
Dried Sample + Tare Wt, g			66.55	67.73	68.04	67.83	68.32	67.57	66.43	68.15	67.21	
Tare Wt, g			66.41	67.56	67.84	67.65	68.13	67.37	66.26	67.98	67.03	
Water Wt, g			36.92	44.05	44.26	43.84	46.51	50.23	45.98	44.83	49.11	
Dried Sample Wt, g			0.14	0.17	0.2	0.18	0.19	0.2	0.17	0.17	0.18	
Salt Wt, g			0.023	0.028	0.028	0.027	0.029	0.031	0.029	0.028	0.031	
Particulates Wt, g			0.117	0.142	0.172	0.153	0.161	0.169	0.141	0.142	0.149	
Particulates Conc. (g/L)			3.2	3.2	3.9	3.5	3.5	3.4	3.1	3.2	3.0	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	36	88	192	14	154	85	97	38	75			
Dry Particulates + Filter Paper Wt, g	0.0857	0.0883	0.0890	0.0910	0.0974	0.0893	0.0895	0.0900	0.0898			
Filter Paper Wt, g	0.0794	0.0811	0.0808	0.0808	0.0872	0.0807	0.0809	0.0813	0.0815			
Dry Particulates Wt, g	0.0063	0.0072	0.0082	0.0102	0.0102	0.0086	0.0086	0.0087	0.0083			
Volume (mL)	126	135	137	138	136	140	138	143	134			
Particulates TSS Conc. (mg/L)	50.000	53.333	59.854	73.913	75.000	61.429	62.319	60.839	61.940			
Turbidity (NTU)	32	34	34	39	36	32	34	34	39			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	95	151	173	98A	61	163	54	72	195	15		
Dry Particulates + Filter Paper Wt, g	0.0874	0.0834	0.0864	0.0836	0.0859	0.0870	0.0867	0.0845	0.0867	0.0961		
Filter Paper Wt, g	0.0831	0.0782	0.0809	0.0784	0.0799	0.0811	0.0805	0.0783	0.0802	0.0814		
Dry Particulates Wt, g	0.0043	0.0052	0.0055	0.0052	0.0060	0.0059	0.0062	0.0062	0.0065	0.0147		
Volume (mL)	136	137	135	131	136	139	135	137	141	145		
Particulates TSS Conc. (mg/L)	31.618	37.956	40.741	39.695	44.118	42.446	45.926	45.255	46.099	101.379		
Turbidity (NTU)	12	24	23	25	26	26	32	29	30	60		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	84	181	176	64	46	90	27	194	101	189		
Dry Particulates + Filter Paper Wt, g	0.0829	0.0847	0.0827	0.0833	0.0843	0.0854	0.0832	0.0837	0.0864	0.0878		
Filter Paper Wt, g	0.0790	0.0809	0.0781	0.0790	0.0795	0.0824	0.0781	0.0790	0.0823	0.0824		
Dry Particulates Wt, g	0.0039	0.0038	0.0046	0.0043	0.0048	0.0030	0.0051	0.0047	0.0041	0.0054		
Volume (mL)	123	140	137	131	137	138	140	138	132	137		
Particulates TSS Conc. (mg/L)	31.707	27.143	33.577	32.824	35.036	21.739	36.429	34.058	31.061	39.416		
Turbidity (NTU)	10	10	15	18	18	17	18	19	19	25		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10		12
Tare No.	13	198	98A	58	48	54	154	6	82	167		
Dry Particulates + Filter Paper Wt, g	0.0820	0.0843	0.0824	0.0841	0.0853	0.0825	0.0840	0.0851	0.0861	0.0843		
Filter Paper Wt, g	0.0786	0.0816	0.0797	0.0802	0.0817	0.0781	0.0801	0.0803	0.0810	0.0783		
Dry Particulates Wt, g	0.0034	0.0027	0.0027	0.0039	0.0036	0.0044	0.0039	0.0048	0.0051	0.0060		
Volume (mL)	141	142	136	135	135	136	135	135	143	141		
Particulates TSS Conc. (mg/L)	24.113	19.014	19.853	28.889	26.667	32.353	28.889	35.556	35.664	42.553		
Turbidity (NTU)	8.7	12	13	12	14	13	16	16	16	20		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	99	180	159	21	106	25	156	179	6	39	
Dry Particulates + Filter Paper Wt, g		0.0915	0.0992	0.0909	0.0944	0.0973	0.0885	0.0965	0.0926	0.0992	0.0970	
Filter Paper Wt, g		0.0846	0.0877	0.0792	0.0849	0.0847	0.0766	0.0857	0.0801	0.0878	0.0859	
Dry Particulates Wt, g		0.0069	0.0115	0.0117	0.0095	0.0126	0.0119	0.0108	0.0125	0.0114	0.0111	
Volume (mL)		137	141	137	140	141	135	133	133	141	137	
Particulates TSS Conc. (mg/L)		50.365	81.560	85.401	67.857	89.362	88.148	81.203	93.985	80.851	81.022	
Turbidity (NTU)		13	9.1	7.3	8.3	15	11	9.0	8.1	10	11	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	13	21	180	58	98A	179	101	154	48	46	
Dry Particulates + Filter Paper Wt, g		0.0820	0.0885	0.0924	0.0888	0.0918	0.0906	0.0924	0.0902	0.0916	0.0849	
Filter Paper Wt, g		0.0776	0.0835	0.0878	0.0837	0.0873	0.0866	0.0878	0.0861	0.0859	0.0791	
Dry Particulates Wt, g		0.0044	0.005	0.0046	0.0051	0.0045	0.004	0.0046	0.0041	0.0057	0.0058	
Volume (mL)		121	125	121	124	126	127	129	132	129	133	
Particulates TSS Conc. (mg/L)		36.364	40.000	38.017	41.129	35.714	31.496	35.659	31.061	44.186	43.609	
Turbidity (NTU)		7.6	6.7	5.8	7.3	6.1	4.9	7.2	7.2	6.1	7.0	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	9	44	51	179	168	24	182	56	119	50	xxx
Dry Particulates + Filter Paper Wt, g		0.0801	0.0901	0.0813	0.0877	0.0855	0.0882	0.0808	0.0871	0.0876	0.0875	
Filter Paper Wt, g		0.0793	0.0840	0.0804	0.0864	0.0844	0.0871	0.0794	0.0857	0.0857	0.0857	
Dry Particulates Wt, g		0.0008	0.0061	0.0009	0.0013	0.0011	0.0011	0.0014	0.0014	0.0019	0.0018	
Volume (mL)		138	139	139	139	143	138	142	148	138	143	
Particulates TSS Conc. (mg/L)		5.797	43.885	6.475	9.353	7.692	7.971	9.859	9.459	13.768	12.587	
Turbidity (NTU)		2.4	2.3	1.7	2.7	1.8	2.1	2.8	1.8	6	4	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	97	201	173	151	65	102A	157	38	15	160	
Dry Particulates + Filter Paper Wt, g		0.0906	0.0930	0.0969	0.0875	0.0974	0.0875	0.0932	0.0981	0.0961	0.1034	
Filter Paper Wt, g		0.0839	0.0848	0.0874	0.0780	0.0874	0.0802	0.0839	0.0886	0.0858	0.0873	
Dry Particulates Wt, g		0.0067	0.0082	0.0095	0.0095	0.01	0.0073	0.0093	0.0095	0.0103	0.0161	
Volume (mL)		126	137	135	137	141	140	136	135	148	139	
Particulates TSS Conc. (mg/L)		53.175	59.854	70.370	69.343	70.922	52.143	68.382	70.370	69.595	115.827	
Turbidity (NTU)		5.5	2.8	8.0	5.4	4.2	7.0	3.6	4.5	6.7	11	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-30053	CST Test #:	17
Test Start Date:	4/18/2007	Tested By:	md
Test Start Time:	9:32	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	xxx	53	104A	27	88	23	12	101	198	65	xxx
Dry Particulates + Filter Paper Wt, g			0.0869	0.0884	0.0888	0.0884	0.0913	0.0835	0.0868	0.0894	0.0873	
Filter Paper Wt, g			0.0836	0.0849	0.0849	0.0849	0.0878	0.0791	0.0823	0.0854	0.0824	
Dry Particulates Wt, g	---		0.0033	0.0035	0.0039	0.0035	0.0035	0.0044	0.0045	0.004	0.0049	
Volume (mL)			124	135	136	140	134	142	134	140	147	
Particulates TSS Conc. (mg/L)			26.613	25.926	28.676	25.000	26.119	30.986	33.582	28.571	33.333	
Turbidity (NTU)			3	3	3	3	3	3	3	4	4	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-30053	Test Date:	05/25/07	Checked By:	n/a
Depth :	---	Sample Id:	50282		
Test Comment:	---				
Sample Description:	Wet, white silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-30053	---	Wet, white silt	167.8

Notes: Temperature of Drying : 60º Celsius

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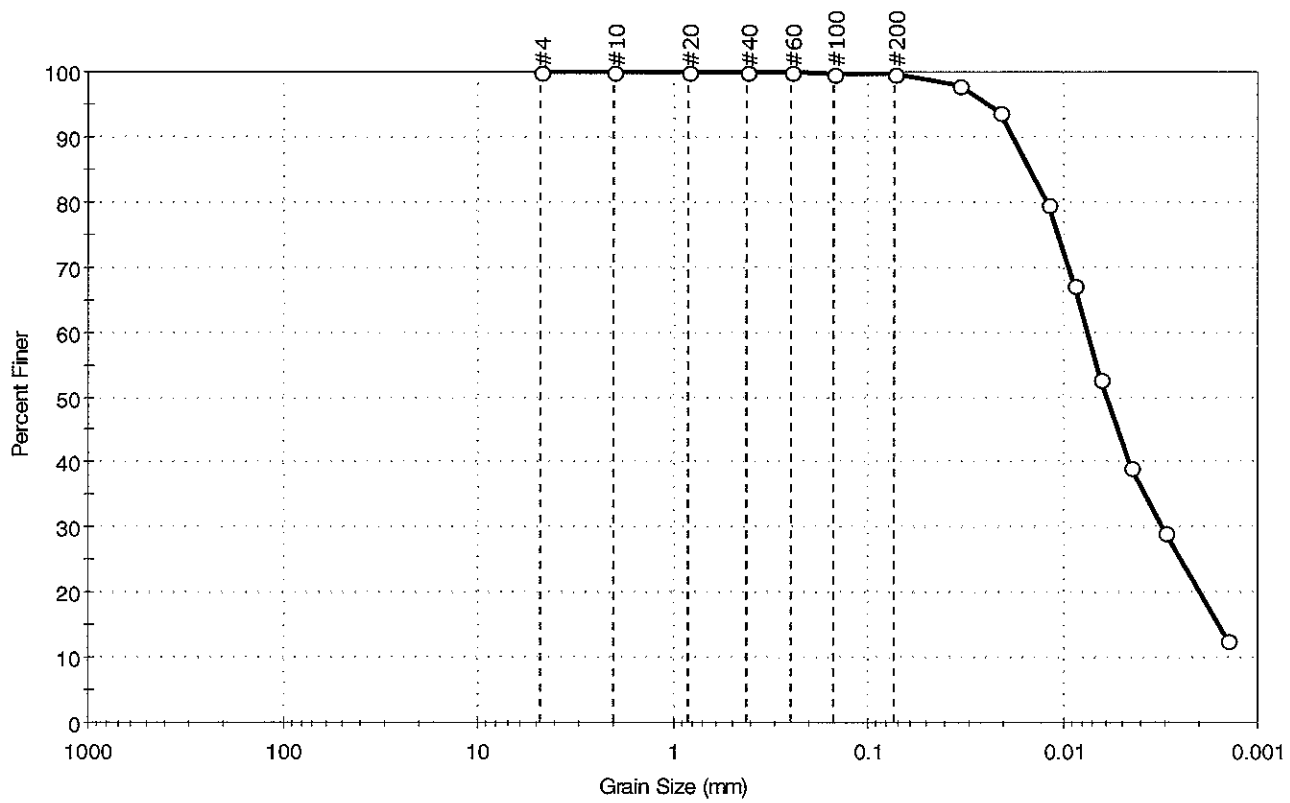
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-30053	Test Date:	05/08/07	Checked By:	jdt
Depth :	---	Test Id:	109706		
Test Comment:	---				
Sample Description:	Wet, white silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
–	0.0	0.4	99.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	100		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0338	98		
---	0.0210	94		
---	0.0119	80		
---	0.0088	67		
---	0.0064	53		
---	0.0045	39		
---	0.0030	29		
---	0.0014	13		

Coefficients

D_{85} = 0.0147 mm D_{30} = 0.0031 mm
D_{60} = 0.0075 mm D_{15} = 0.0016 mm
D_{50} = 0.0059 mm D_{10} = 0.0013 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (80))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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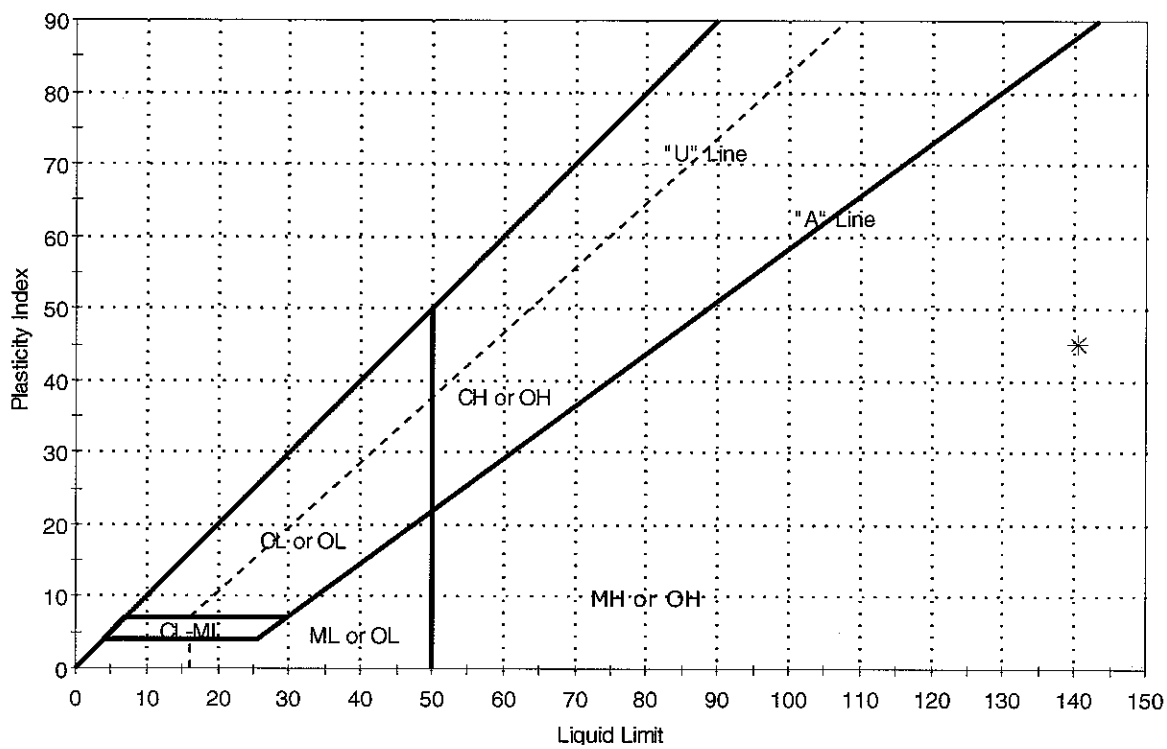
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-30053		Test Date:	05/08/07	Checked By:	jdt
Depth : ---		Test Id:	109723		
Test Comment:	---				
Sample Description:	Wet, white silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-30053	---	---	168	141	95	46	2	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: MEDIUM
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-30053		Test Date:	05/24/07	Checked By:	jdt
Depth : ---		Test Id:	109757		
Test Comment:	---				
Sample Description:	Wet, white silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-30053	---	Wet, white silt	2.6

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

printed 5/25/2007 8:53:47 AM

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	05/18/07
Tested by:	md
Checked by:	jdt

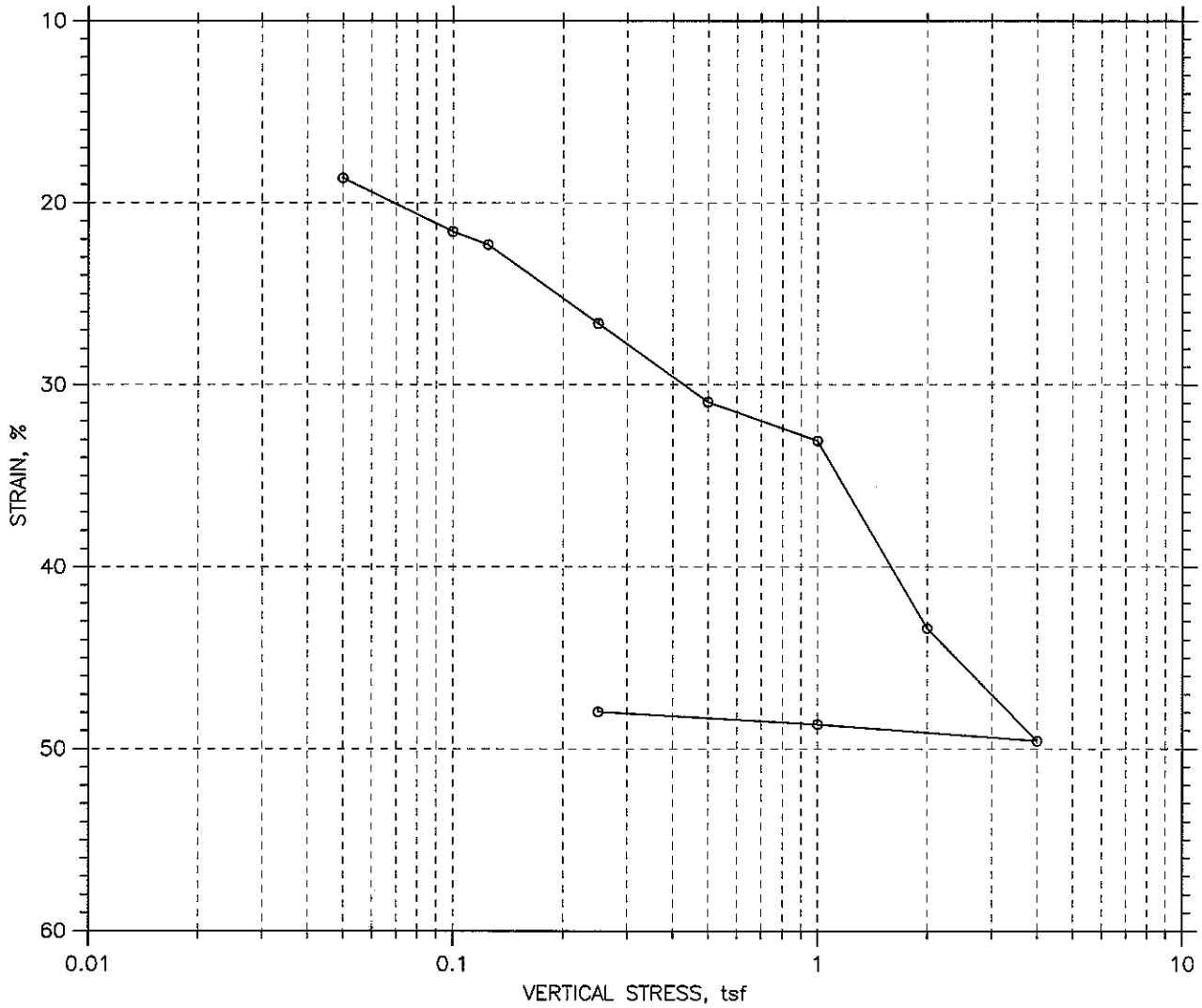
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-30053	Wet, white silt	0.25	0.28	0.30	0.25	0.27

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	332.70	132.89
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	16.82	32.32
Compression Index: ---				Saturation, %	100.00	85.92
Diameter: 7.65 in		Height: 3.65 in		Void Ratio	8.65	4.02
LL: 141	PL: 95	PI: 46	GS: 2.60			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

Thu, 24-MAY-2007 11:41:01

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 30053
Test No.: CST-17 LC17

Location: Syracuse, NY
Tested By: md
Test Date: 05/18/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: --
Elevation: ---

Soil Description: Wet, white silt
Remarks: System K

Measured Specific Gravity: 2.60
Initial Void Ratio: 8.65
Final Void Ratio: 4.02

Liquid Limit: 141
Plastic Limit: 95
Plasticity Index: 46

Initial Height: 3.65 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	2405	RING		theta
Wt. Container + Wet Soil, gm	108.99	3205	1725	226.47
Wt. Container + Dry Soil, gm	29.63	740.7	740.7	101.86
Wt. Container, gm	8.18	0	0	8.09
Wt. Dry Soil, gm	21.45	740.7	740.7	93.77
Water Content, %	369.98	332.70	132.89	132.89
Void Ratio	---	8.65	4.02	---
Degree of Saturation, %	---	100.00	85.92	---
Dry Unit Weight, pcf	---	16.819	32.324	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 30053
Test No.: CST-17 LC17

Location: Syracuse, NY
Tested By: md
Test Date: 05/18/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: --
Elevation: ---

Soil Description: Wet, white silt
Remarks: System K

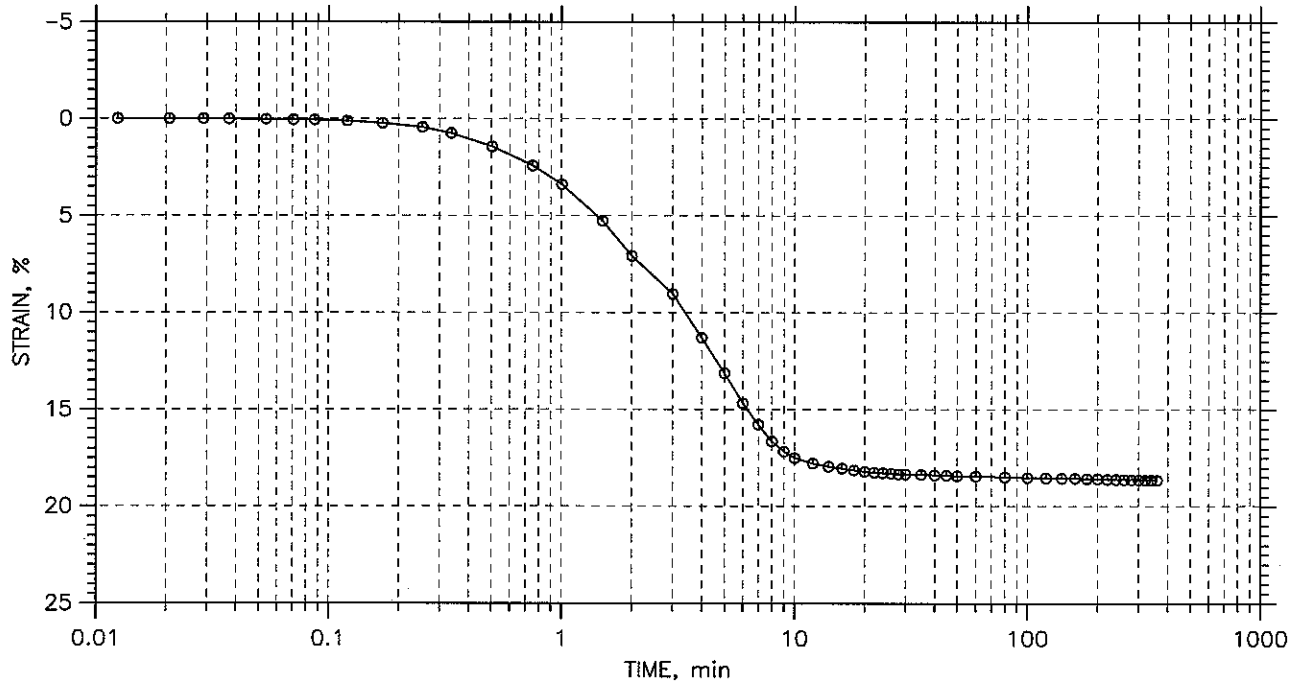
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. ft^2/sec	Coefficient of Consolidation Log ft^2/sec	Coefficient of Consolidation Ave. ft^2/sec
1	0.05	0.6802	6.852	18.64	3.2	0.0	1.98e-005	0.00e+000	1.98e-005
2	0.1	0.7875	6.568	21.57	1.6	1.8	3.05e-005	2.77e-005	2.90e-005
3	0.125	0.8136	6.499	22.29	14.6	10.7	3.18e-006	4.33e-006	3.67e-006
4	0.25	0.9717	6.081	26.62	0.9	0.8	4.70e-005	5.46e-005	5.05e-005
5	0.5	1.129	5.664	30.94	1.2	0.6	3.23e-005	6.11e-005	4.23e-005
6	1	1.207	5.459	33.07	0.2	0.2	1.52e-004	2.02e-004	1.73e-004
7	2	1.583	4.465	43.37	0.8	0.7	3.72e-005	4.12e-005	3.91e-005
8	4	1.809	3.867	49.57	0.4	0.3	6.01e-005	7.26e-005	6.58e-005
9	1	1.776	3.955	48.66	0.1	0.0	3.93e-004	4.12e-004	4.02e-004
10	0.25	1.751	4.022	47.97	0.1	0.1	2.82e-004	3.14e-004	2.97e-004

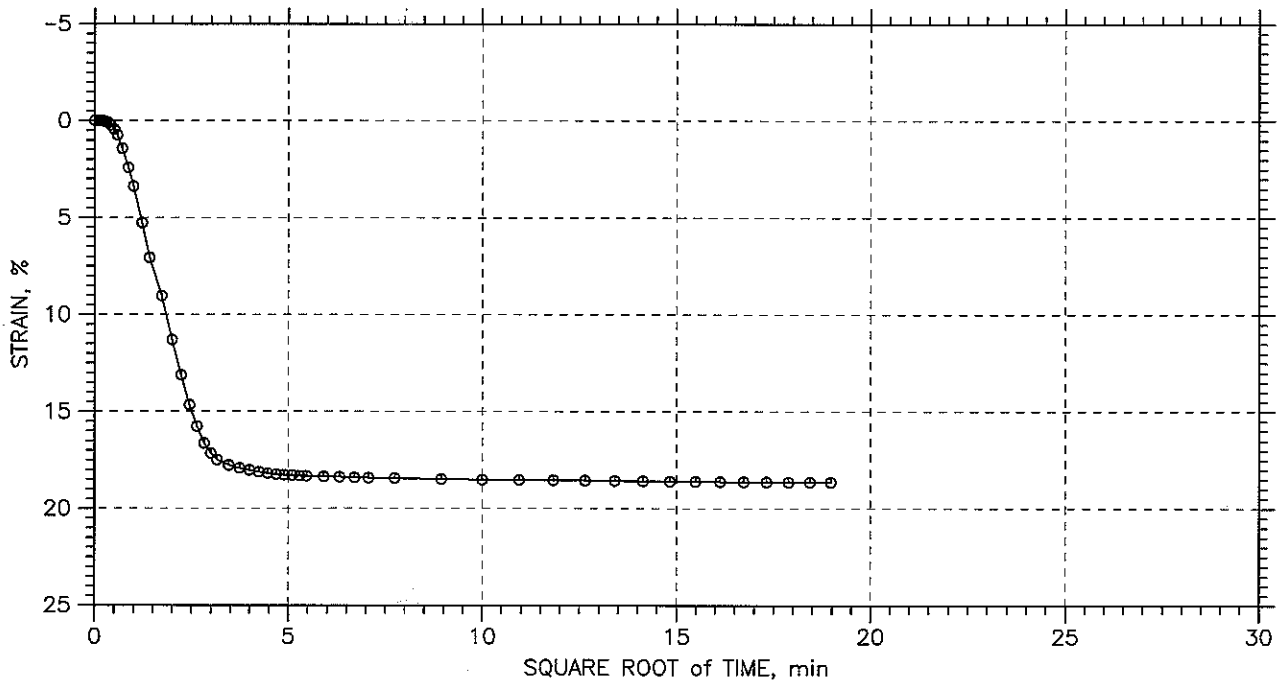
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

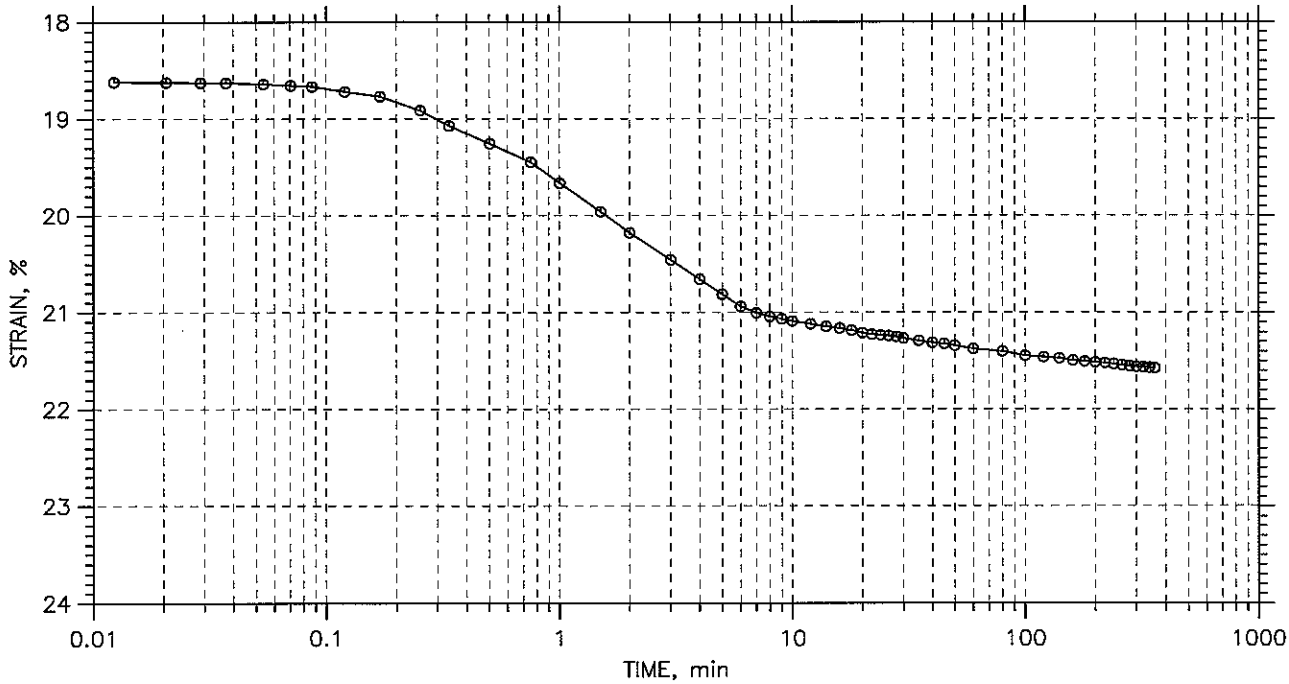
Thu, 24-MAY-2007 11:41:03

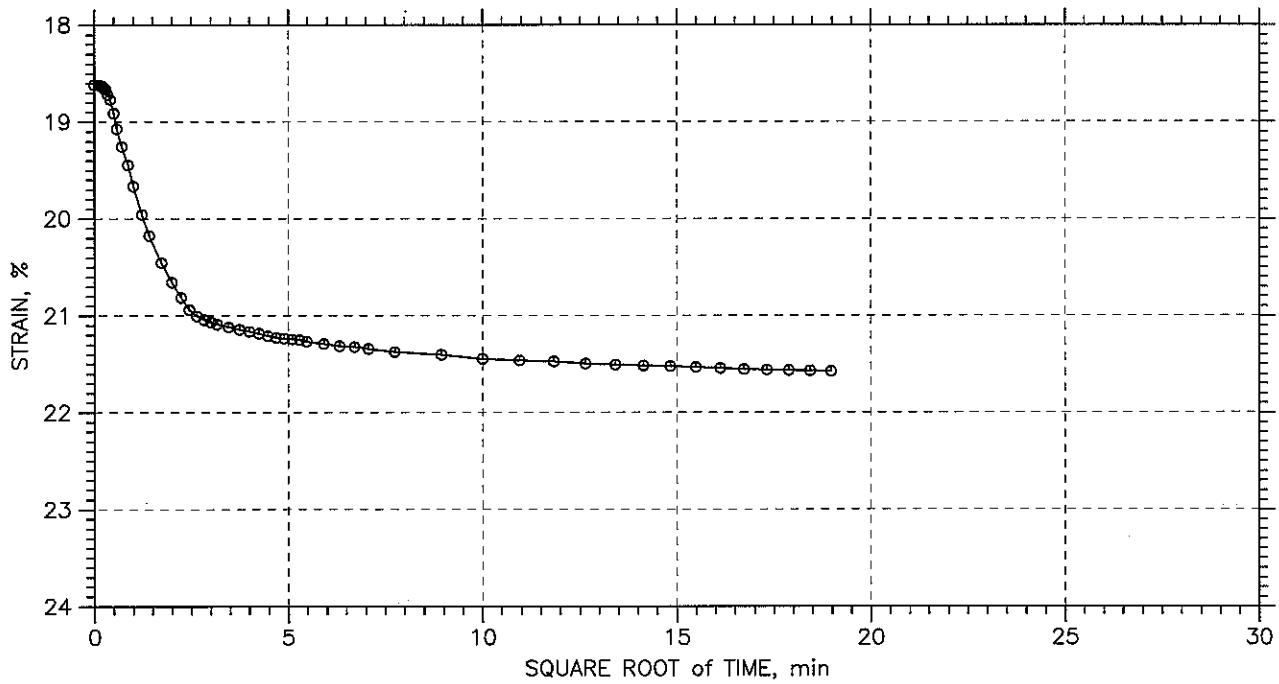
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

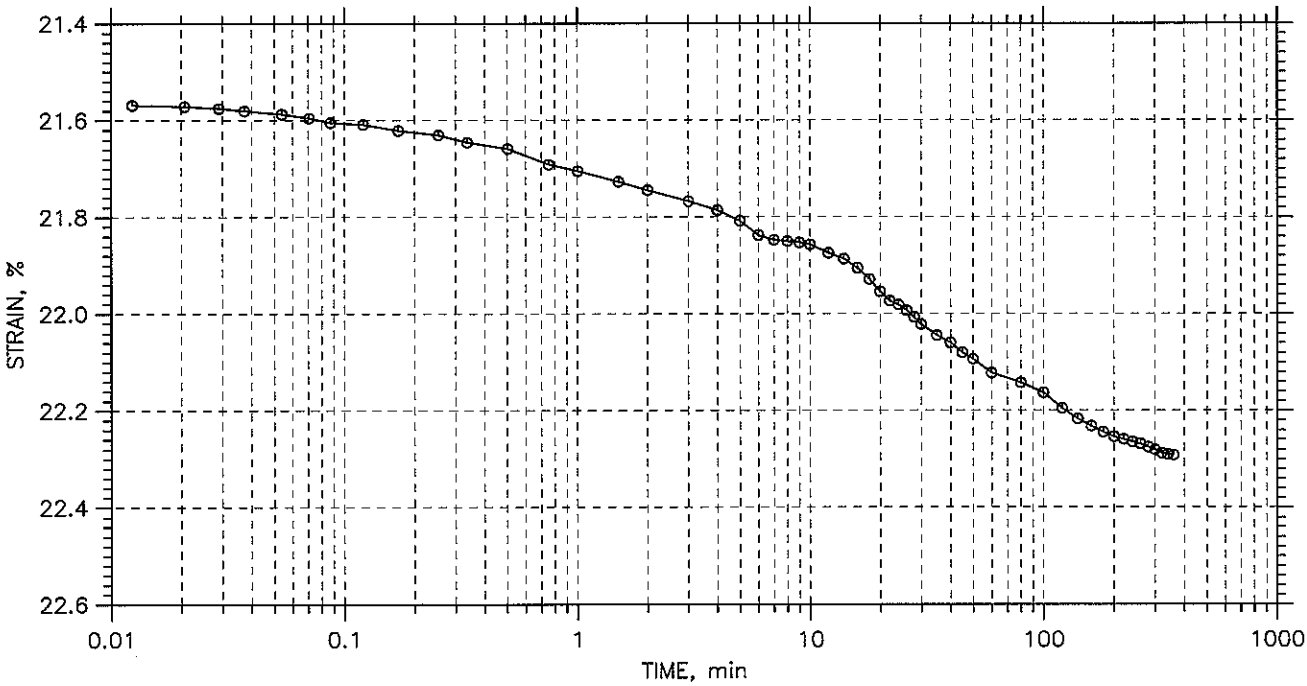
Thu, 24-MAY-2007 11:41:07

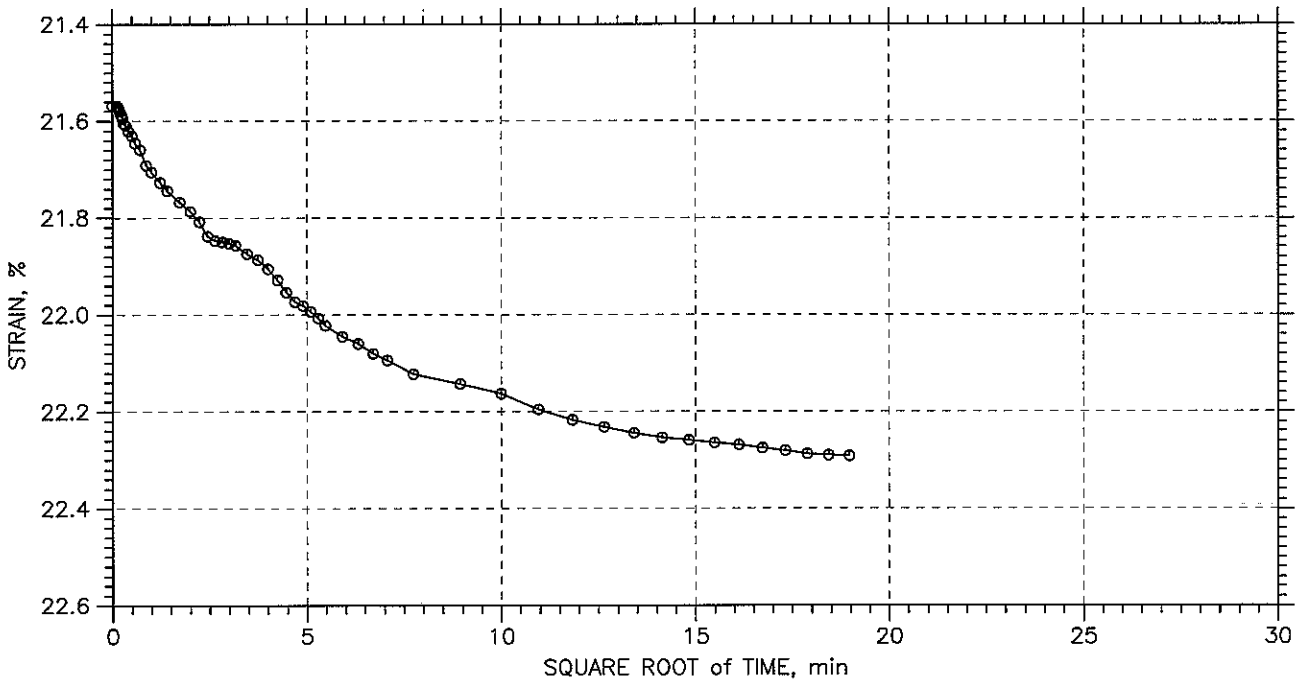
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

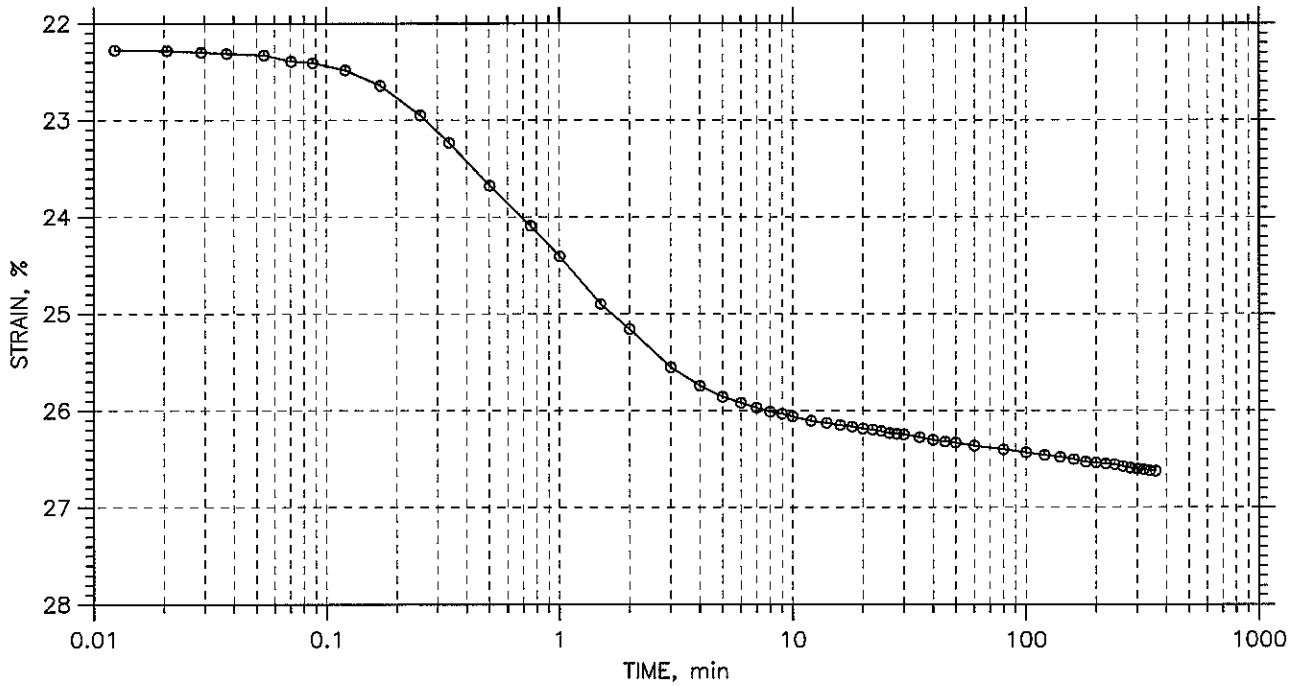
Thu, 24-MAY-2007 11:41:11

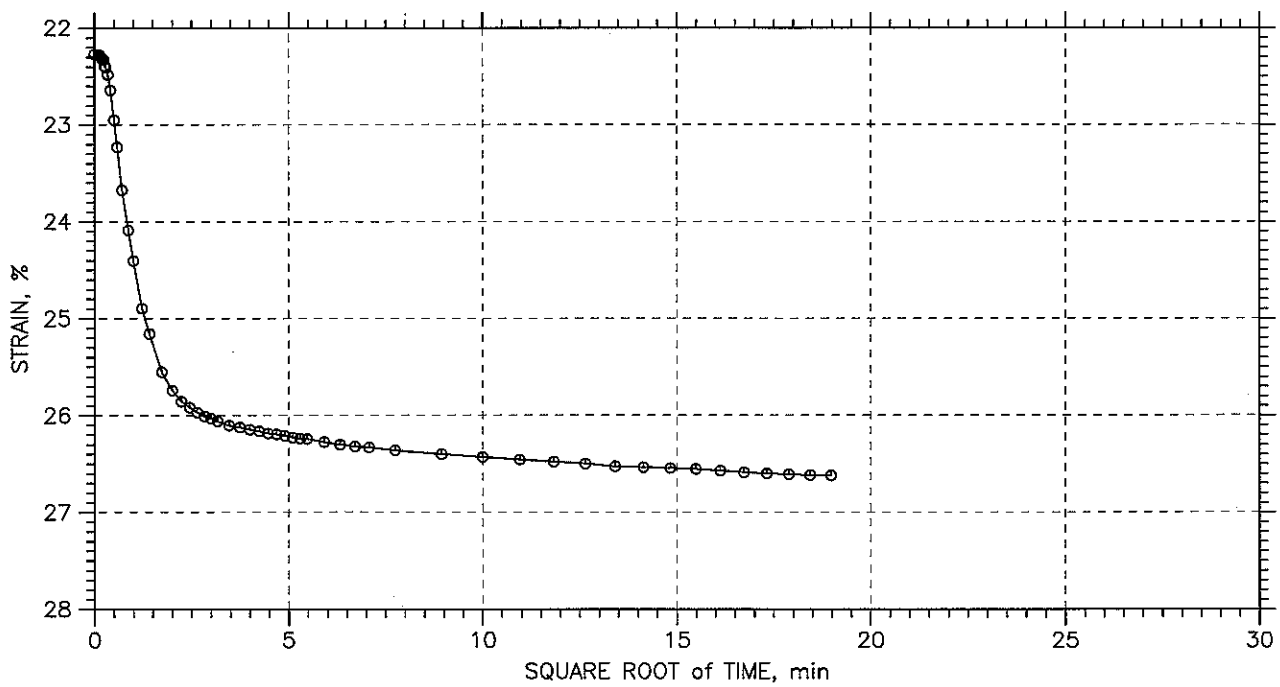
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

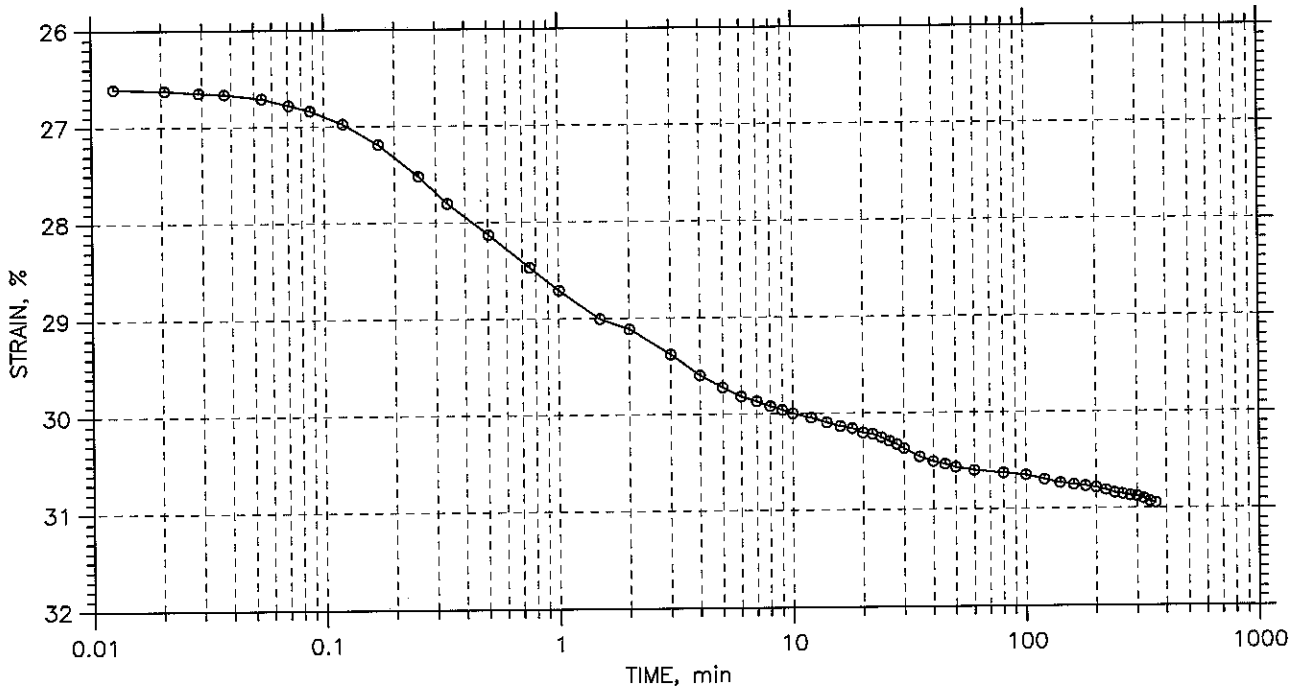
Thu, 24-MAY-2007 11:41:15

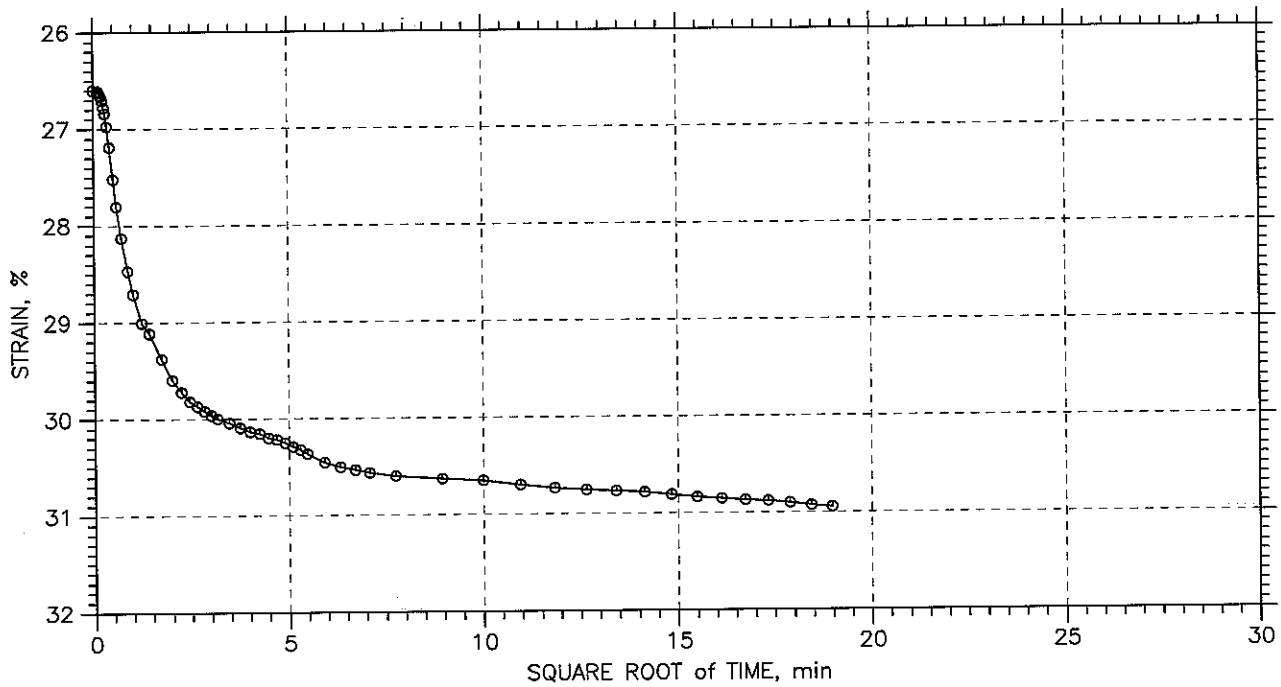
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

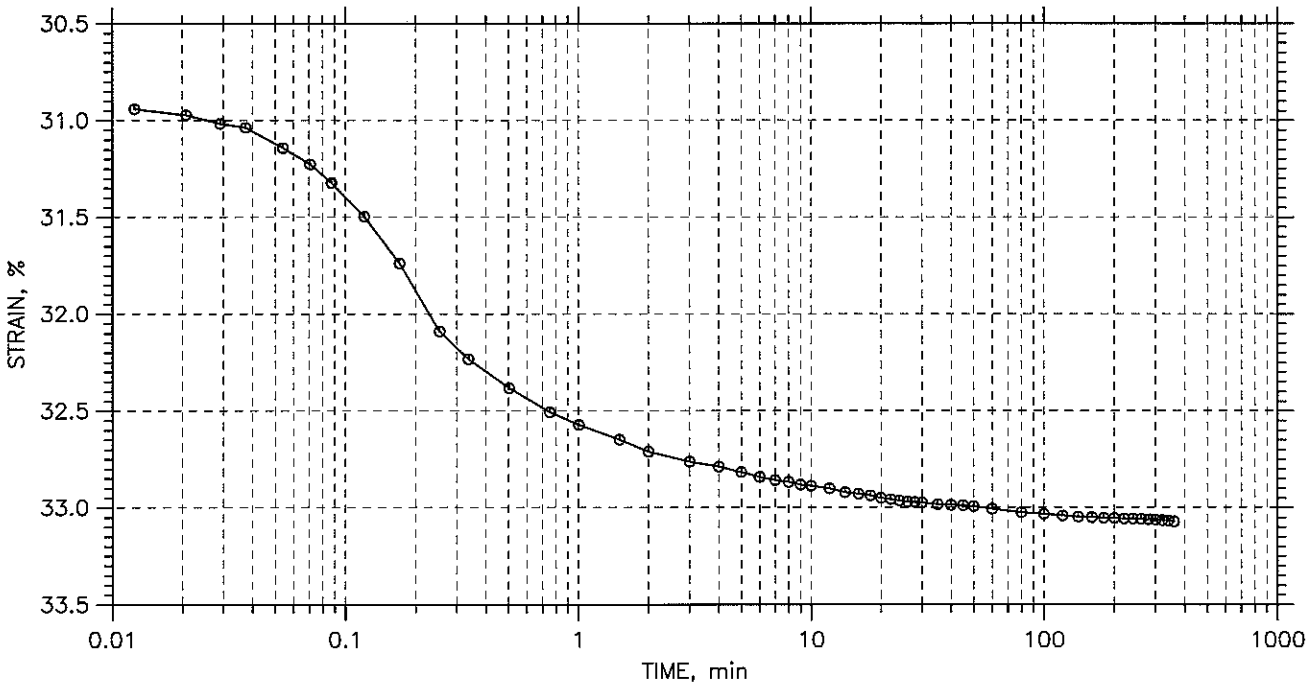
Thu, 24-MAY-2007 11:41:18

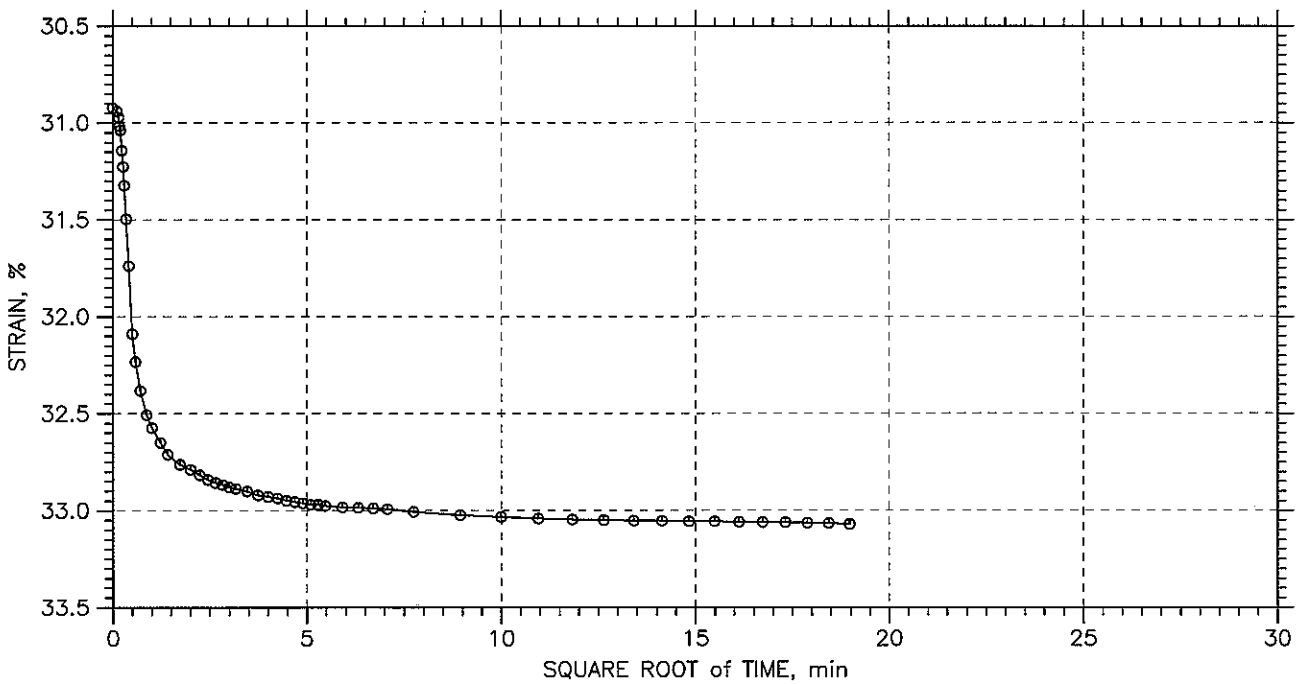
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

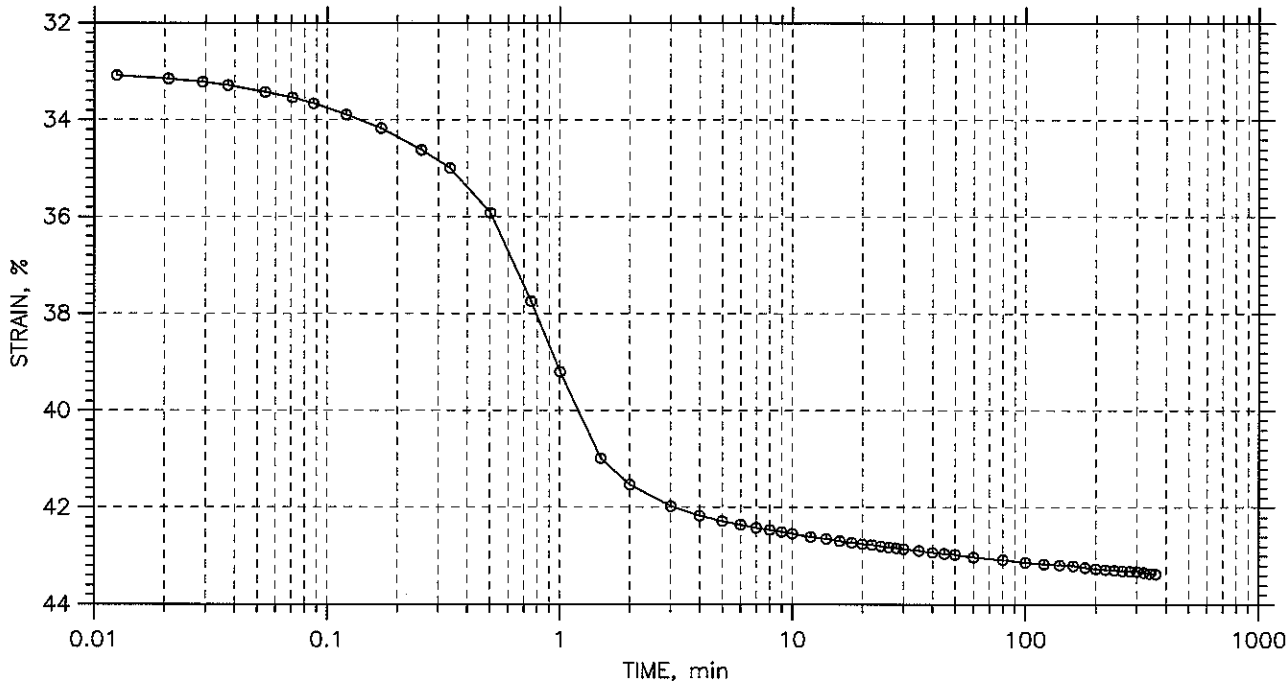
Thu, 24-MAY-2007 11:41:22

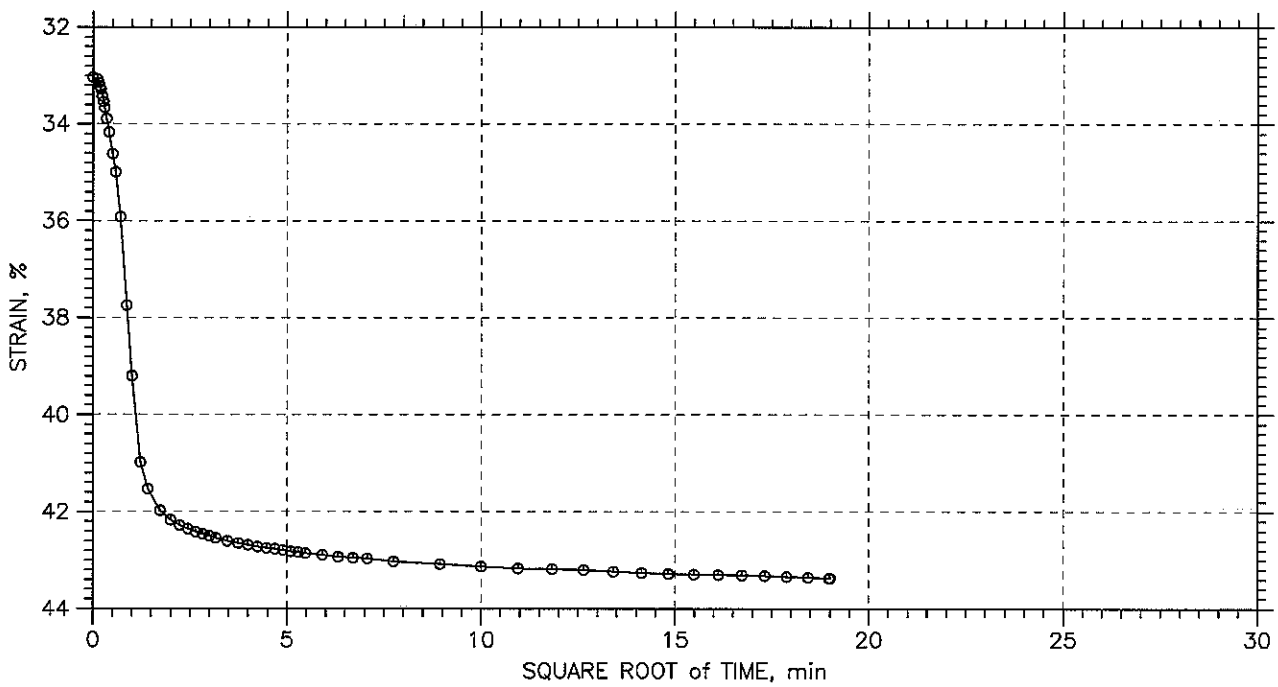
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

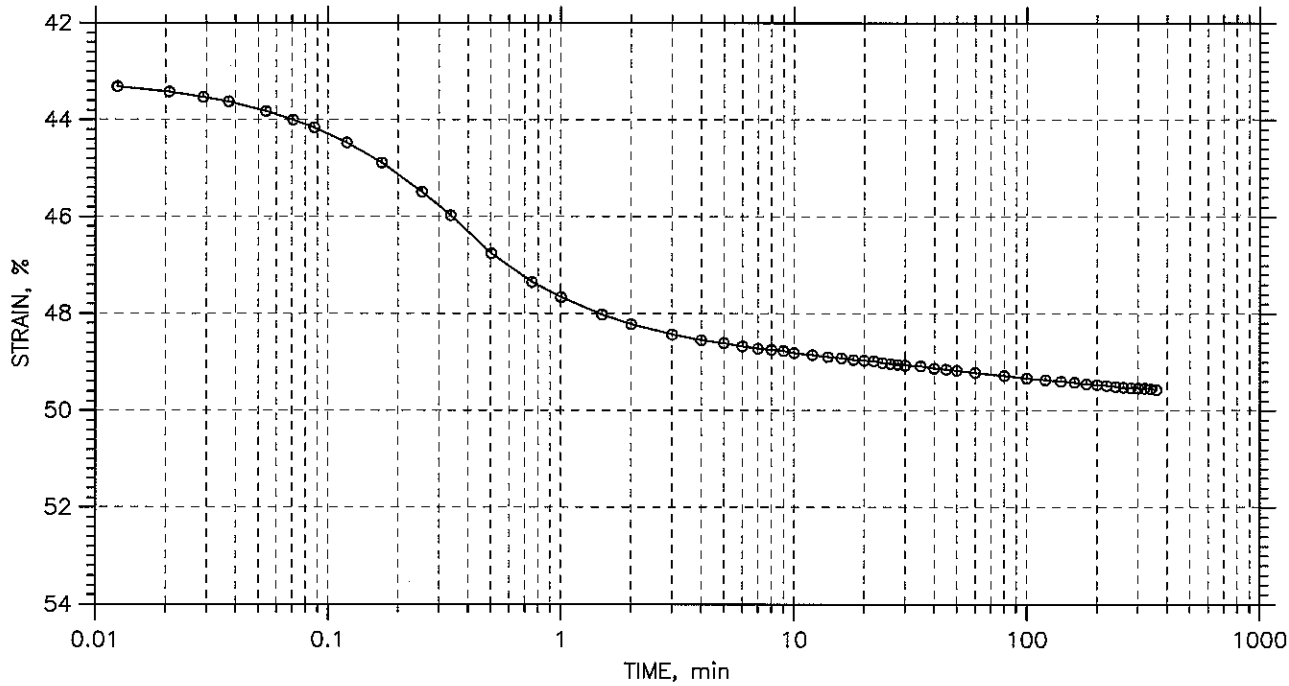
Thu, 24-MAY-2007 11:41:24

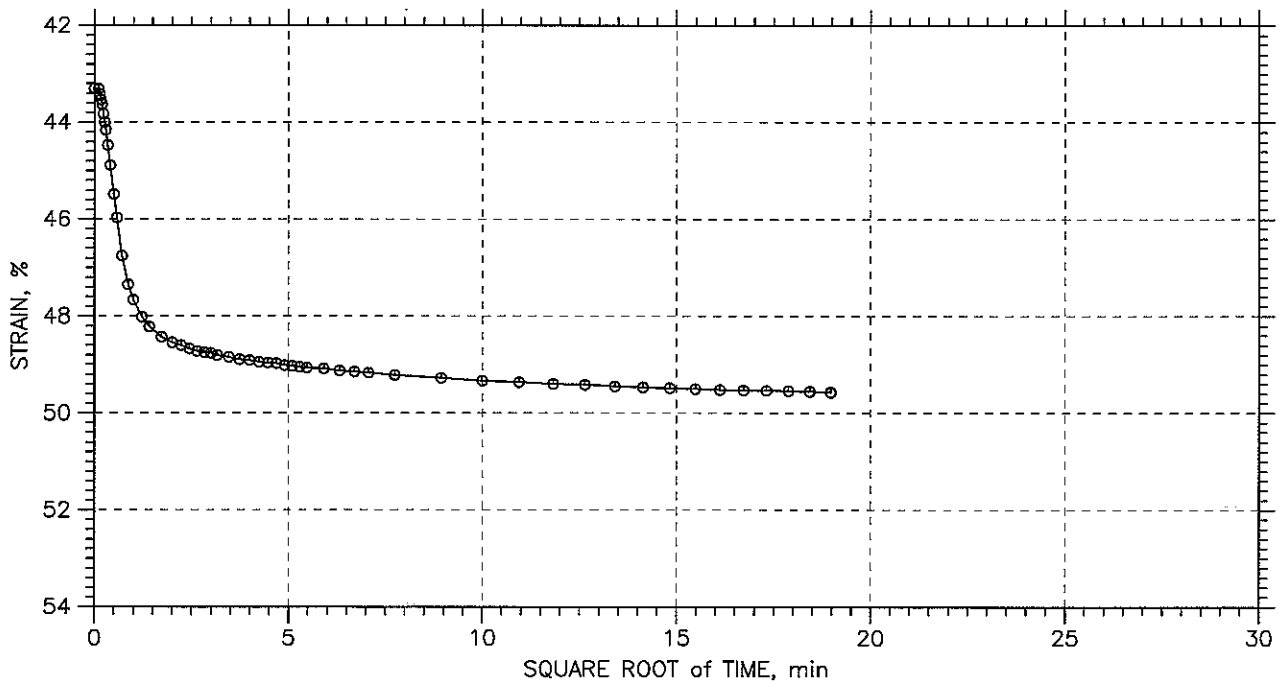
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

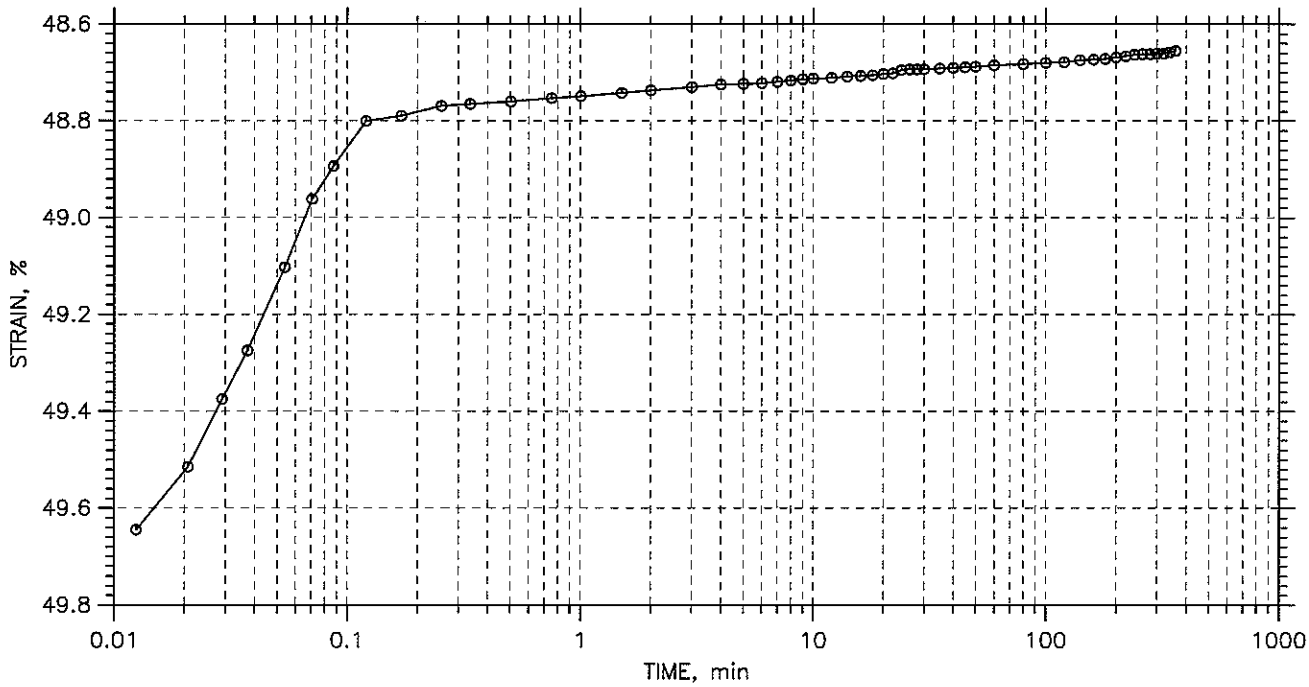
Thu, 24-MAY-2007 11:41:29

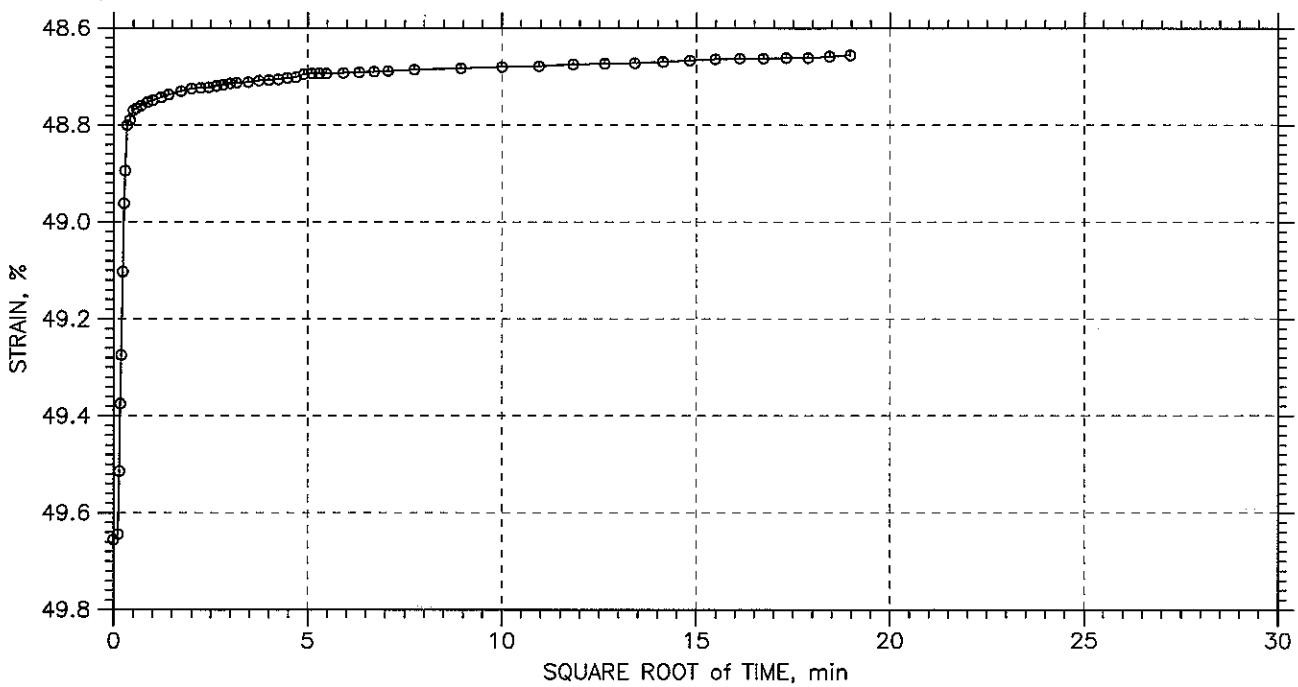
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, whité silt		
	Remarks: System K		

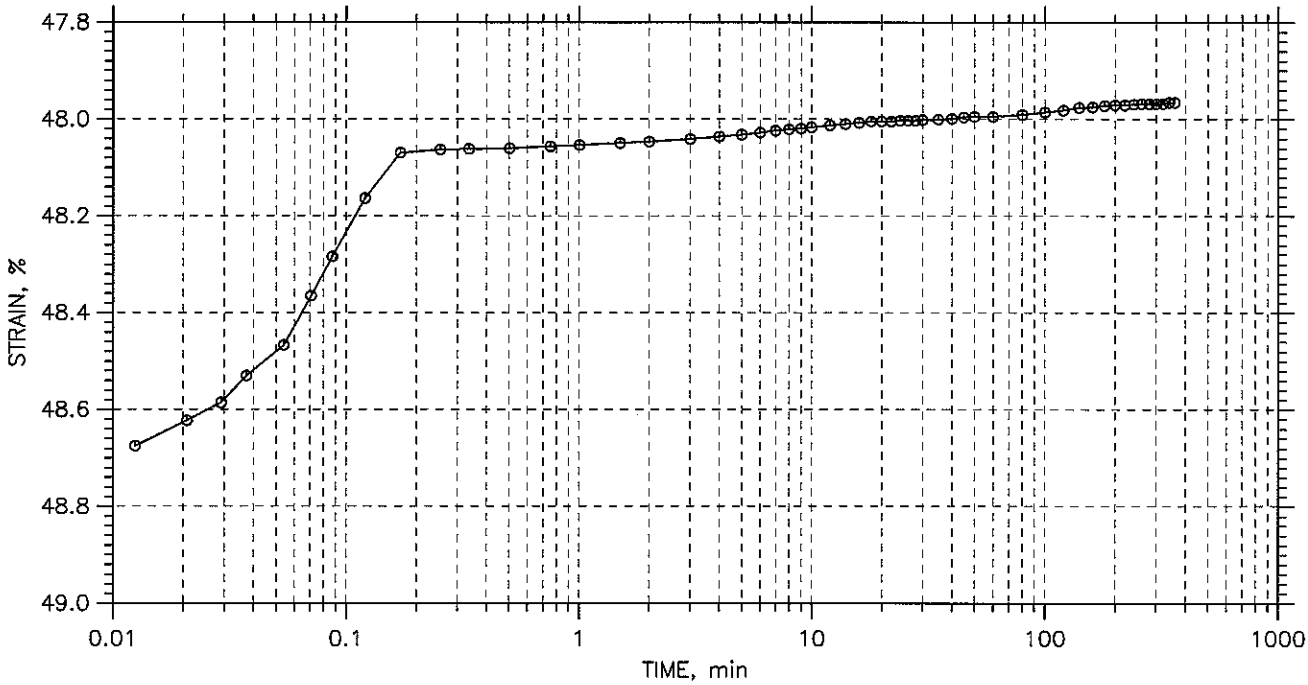
Thu, 24-MAY-2007 11:41:32

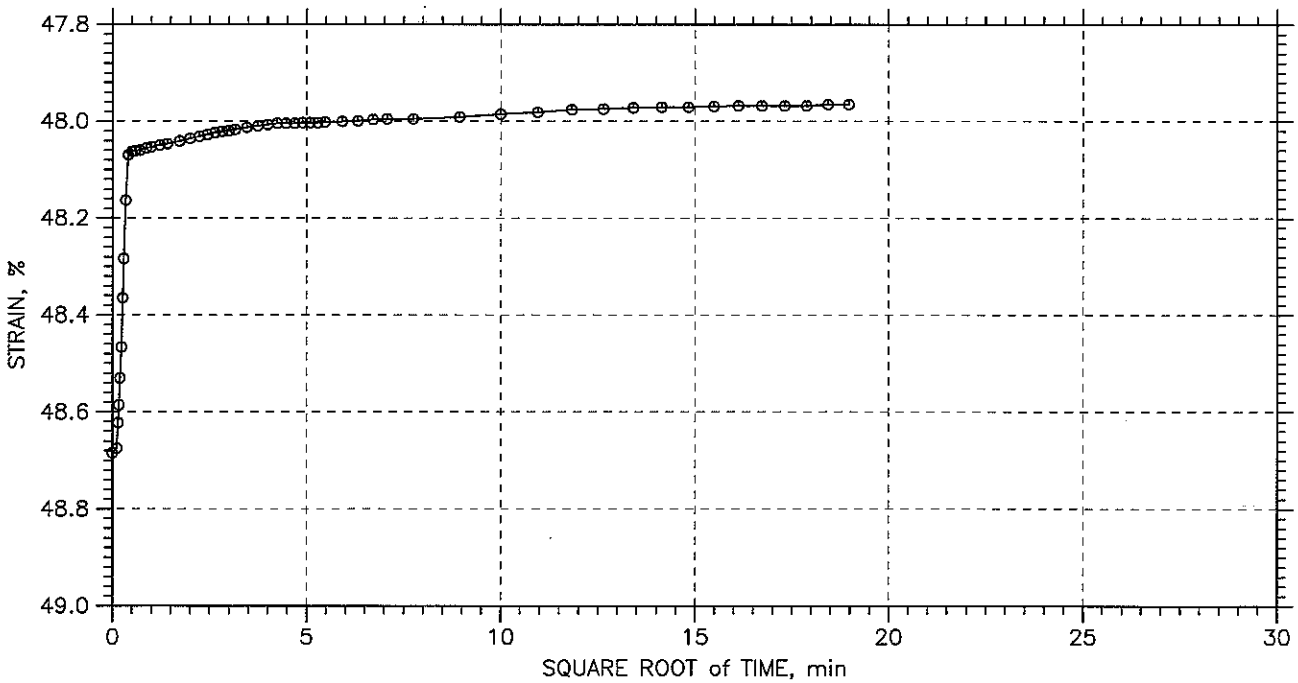
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 30053	Test Date: 05/18/07	Depth: --
	Test No.: CST-17 LC17	Sample Type: Column	Elevation: ---
	Description: Wet, white silt		
	Remarks: System K		

Thu, 24-MAY-2007 11:41:35

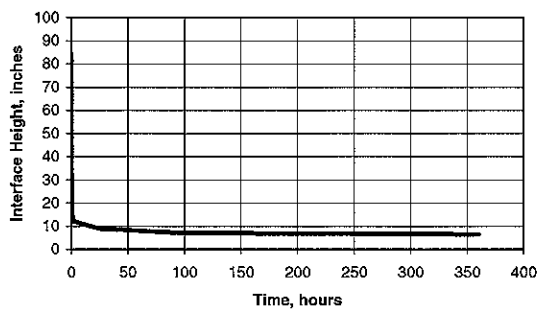
GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29 AM	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/14/07	9:29 AM	0	0.00	84.25	84.25		
	9:31 AM	2	0.03	84.25	79.4		
	9:33 AM	4	0.07	84.25	74.5		
	9:34 AM	5	0.08	84.25	71.2		
	9:36 AM	7	0.12	84.25	67.2		
	9:38 AM	9	0.15	84.25	62.75		
	9:39 AM	10	0.17	84.25	59.0		
	9:41 AM	12	0.20	84.25	54.5		
	9:43 AM	14	0.23	84.25	50.0		
	9:47 AM	18	0.30	84.25	41.4		
	9:50 AM	21	0.35	84.25	33.5		
	9:55 AM	26	0.43	84.25	27.2		
	9:58 AM	29	0.48	84.25	25.2		
	10:07 AM	38	0.63	84.25	19.75		
	10:23 AM	54	0.90	84.25	15.25		
	10:43 AM	74	1.23	82.8	13.8		
	11:41 AM	132	2.20	81.3	12		
03/15/07	9:50 AM	1461	24.35	76.9	9		
03/18/07	9:30 AM	5761	96.02	75.5	7		
03/29/07	9:45 AM	21616	360.27	70.7	6.45		



GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	105a	30										
Wet Sample + Tare Wt, g	145.74	139.07										
Dried Sample + Tare Wt, g	77.22	76.48										
Tare Wt, g	67.55	67.45										
Water Wt, g	68.52	62.59										
Dried Sample Wt, g	9.67	9.03										
Salt Wt, g	0.048	0.044										
Particulates Wt, g	9.622	8.986										
Particulates Conc. (g/L)	133.0	135.8										

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		105A				30				186		
Wet Sample + Tare Wt, g		112.35				124.77				139.25		
Dried Sample + Tare Wt, g		69.41				70.07				70.39		
Tare Wt, g		67.55				67.45				67.00		
Water Wt, g		42.94				54.70				68.86		
Dried Sample Wt, g		1.86				2.62				3.39		
Salt Wt, g		0.030				0.039				0.049		
Particulates Wt, g		1.830				2.581				3.341		
Particulates Conc. (g/L)		41.9				46.3				47.6		

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	52	79	75	67	58	57	63	95	88	72	187	
Wet Sample + Tare Wt, g	108.21	107.76	110.52	108.21	106.14	111.54	108.49	123.82	121.34	116.38	125.46	
Dried Sample + Tare Wt, g	67.81	67.89	68.25	68.03	67.51	67.73	67.64	66.18	67.89	67.72	67.16	
Tare Wt, g	67.65	67.79	68.11	67.90	67.37	67.59	67.50	65.99	67.71	67.55	66.94	
Water Wt, g	40.40	39.87	42.27	40.18	38.63	43.81	40.85	57.64	53.45	48.66	58.30	
Dried Sample Wt, g	0.16	0.10	0.14	0.13	0.14	0.14	0.14	0.19	0.18	0.17	0.22	
Salt Wt, g	0.028	0.028	0.030	0.028	0.027	0.031	0.029	0.041	0.038	0.034	0.041	
Particulates Wt, g	0.132	0.072	0.110	0.102	0.113	0.109	0.111	0.149	0.142	0.136	0.179	
Particulates Conc. (g/L)	3.3	1.8	2.6	2.5	2.9	2.5	2.7	2.6	2.7	2.8	3.1	

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	29	37	38	50	84	85	89	90	92	105	107	183
Wet Sample + Tare Wt, g	111.76	108.95	110.07	107.39	110.15	109.05	109.10	110.56	118.31	114.71	118.63	115.41
Dried Sample + Tare Wt, g	68.79	67.71	66.33	67.66	67.46	67.77	66.44	68.20	67.83	66.29	66.43	67.09
Tare Wt, g	68.65	67.56	66.17	67.54	67.31	67.63	66.30	68.06	67.67	66.13	66.27	66.93
Water Wt, g	42.97	41.24	43.74	39.73	42.69	41.28	42.66	42.36	50.48	48.42	52.20	48.32
Dried Sample Wt, g	0.14	0.15	0.16	0.12	0.15	0.14	0.14	0.14	0.16	0.16	0.16	0.16
Salt Wt, g	0.030	0.029	0.031	0.028	0.030	0.029	0.030	0.030	0.036	0.034	0.037	0.034
Particulates Wt, g	0.110	0.121	0.129	0.092	0.120	0.111	0.110	0.110	0.124	0.126	0.123	0.126
Particulates Conc. (g/L)	2.6	2.9	3.0	2.3	2.8	2.7	2.6	2.6	2.5	2.6	2.4	2.6

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	176	64	28	207	1	2	46	39	178	203	210	180
Wet Sample + Tare Wt, g	107.15	105.35	106.11	106.89	110.25	112.48	111.50	114.50	110.49	113.30	114.29	113.30
Dried Sample + Tare Wt, g	67.59	67.38	66.38	67.47	68.09	68.03	66.11	68.20	67.32	67.24	66.96	68.01
Tare Wt, g	67.45	67.25	66.24	67.35	67.95	67.88	65.97	68.04	67.18	67.08	66.80	67.86
Water Wt, g	39.56	37.97	39.73	39.42	42.16	44.45	45.39	46.30	43.17	46.06	47.33	45.29
Dried Sample Wt, g	0.14	0.13	0.14	0.12	0.14	0.15	0.14	0.16	0.14	0.16	0.16	0.15
Salt Wt, g	0.028	0.027	0.028	0.028	0.030	0.031	0.032	0.033	0.030	0.032	0.033	0.032
Particulates Wt, g	0.112	0.103	0.112	0.092	0.110	0.119	0.108	0.127	0.110	0.128	0.127	0.118
Particulates Conc. (g/L)	2.8	2.7	2.8	2.3	2.6	2.7	2.4	2.7	2.5	2.8	2.7	2.6

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	165	201	197	193	120	66	112	113	205	188	117
Wet Sample + Tare Wt, g		106.33	107.40	106.82	113.36	113.33	115.17	118.78	112.51	118.88	109.96	109.47
Dried Sample + Tare Wt, g		67.10	66.74	67.96	66.99	66.28	67.85	67.85	65.51	66.67	66.87	66.90
Tare Wt, g		66.95	66.57	67.82	66.84	66.13	67.69	67.67	65.35	66.50	66.72	66.76
Water Wt, g		39.23	40.66	38.86	46.37	47.05	47.32	50.93	47.00	52.21	43.09	42.57
Dried Sample Wt, g		0.15	0.17	0.14	0.15	0.15	0.16	0.18	0.16	0.17	0.15	0.14
Salt Wt, g		0.028	0.029	0.027	0.033	0.033	0.033	0.036	0.033	0.037	0.030	0.030
Particulates Wt, g		0.122	0.141	0.113	0.117	0.117	0.127	0.144	0.127	0.133	0.120	0.110
Particulates Conc. (g/L)		3.1	3.5	2.9	2.5	2.5	2.7	2.8	2.7	2.5	2.8	2.6

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Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	106	184	101A	4	157	62	99	103A	100	104A	103
Wet Sample + Tare Wt, g		110.00	109.85	107.85	109.56	109.76	113.38	115.40	106.65	115.94	115.57	124.71
Dried Sample + Tare Wt, g		67.34	66.64	67.39	66.50	68.00	67.57	67.95	68.23	68.49	67.08	67.73
Tare Wt, g		67.20	66.52	67.27	66.37	67.89	67.45	67.81	68.13	68.37	66.95	67.57
Water Wt, g		42.66	43.21	40.46	43.06	41.76	45.81	47.45	38.42	47.45	48.494	56.98
Dried Sample Wt, g		0.14	0.12	0.12	0.13	0.11	0.12	0.14	0.1	0.12	0.13	0.16
Salt Wt, g		0.030	0.030	0.028	0.030	0.029	0.032	0.033	0.027	0.033	0.034	0.040
Particulates Wt, g		0.110	0.090	0.092	0.100	0.081	0.088	0.107	0.073	0.087	0.096	0.120
Particulates Conc. (g/L)		2.6	2.1	2.3	2.3	1.9	1.9	2.2	1.9	1.8	2.0	2.1

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	81	118	24	158	35	8	121	160	25	60	87
Wet Sample + Tare Wt, g		108.70	110.14	109.85	108.52	111.95	115.06	106.53	112.08	112.47	106.80	109.76
Dried Sample + Tare Wt, g		67.68	66.09	67.69	66.87	67.45	66.76	68.18	67.07	67.91	67.87	67.91
Tare Wt, g		67.59	66.00	67.61	66.81	67.35	66.69	68.11	67.01	67.82	67.80	67.80
Water Wt, g		41.02	44.05	42.16	41.65	44.50	48.30	38.35	45.01	44.56	38.93	41.85
Dried Sample Wt, g		0.09	0.09	0.08	0.06	0.10	0.07	0.07	0.06	0.09	0.07	0.11
Salt Wt, g		0.029	0.031	0.030	0.029	0.031	0.034	0.027	0.032	0.031	0.027	0.029
Particulates Wt, g		0.061	0.059	0.050	0.031	0.069	0.036	0.043	0.028	0.059	0.043	0.081
Particulates Conc. (g/L)		1.5	1.3	1.2	0.7	1.5	0.7	1.1	0.6	1.3	1.1	1.9

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GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	21	30	32	38	41	50	58	59	65	67	72
Wet Sample + Tare Wt, g		114.47	114.47	113.91	121.73	126.94	123.36	121.65	126.57	123.02	121.93	129.11
Dried Sample + Tare Wt, g		66.14	67.57	66.32	66.33	66.16	67.69	67.52	63.93	67.66	68.04	67.72
Tare Wt, g		66.02	67.45	66.20	66.19	66.01	67.54	67.38	63.77	67.52	67.91	67.56
Water Wt, g		48.33	46.90	47.59	55.40	60.78	55.67	54.13	62.64	55.36	53.89	61.39
Dried Sample Wt, g		0.12	0.12	0.12	0.14	0.15	0.15	0.14	0.16	0.14	0.13	0.16
Salt Wt, g		0.034	0.033	0.034	0.039	0.043	0.039	0.038	0.044	0.039	0.038	0.043
Particulates Wt, g		0.086	0.087	0.086	0.101	0.107	0.111	0.102	0.116	0.101	0.092	0.117
Particulates Conc. (g/L)		1.8	1.9	1.8	1.8	1.8	2.0	1.9	1.8	1.8	1.7	1.9

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	87	88	90	91	92	93	95	96	97	98	98A
Wet Sample + Tare Wt, g		111.03	109.85	113.28	108.86	114.11	111.69	115.80	115.28	120.61	117.77	110.10
Dried Sample + Tare Wt, g		66.57	67.84	68.20	67.66	67.79	66.52	66.13	68.28	67.49	67.55	67.47
Tare Wt, g		66.47	67.73	68.08	67.56	67.68	66.42	66.01	68.16	67.36	67.42	67.38
Water Wt, g		44.46	42.01	45.08	41.20	46.32	45.17	49.67	47.00	53.12	50.22	42.63
Dried Sample Wt, g		0.10	0.11	0.12	0.10	0.11	0.10	0.12	0.12	0.13	0.13	0.09
Salt Wt, g		0.031	0.030	0.032	0.029	0.033	0.032	0.035	0.033	0.037	0.035	0.030
Particulates Wt, g		0.069	0.080	0.088	0.071	0.077	0.068	0.085	0.087	0.093	0.095	0.060
Particulates Conc. (g/L)		1.5	1.9	2.0	1.7	1.7	1.5	1.7	1.8	1.7	1.9	1.4

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	40	34	98	39	42	41	33	32	98A	31
Wet Sample + Tare Wt, g			106.96	108.51	112.39	116.10	113.74	114.76	115.98	114.14	109.50	119.15
Dried Sample + Tare Wt, g			66.56	66.47	67.52	68.03	67.44	66.12	67.65	66.32	67.48	67.45
Tare Wt, g			66.49	66.37	67.42	67.92	67.33	66.02	67.54	66.20	67.37	67.34
Water Wt, g			40.40	42.04	44.87	48.07	46.30	48.64	48.33	47.82	42.02	51.70
Dried Sample Wt, g			0.07	0.10	0.10	0.11	0.11	0.10	0.11	0.12	0.11	0.11
Salt Wt, g			0.028	0.030	0.032	0.034	0.033	0.034	0.034	0.034	0.030	0.036
Particulates Wt, g			0.042	0.070	0.068	0.076	0.077	0.066	0.076	0.086	0.080	0.074
Particulates Conc. (g/L)			1.0	1.7	1.5	1.6	1.7	1.4	1.6	1.8	1.9	1.4

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
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Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	111	116	108	121	69	41	181	65	87	83	59	
Dry Particulates + Filter Paper Wt, g	0.1723	0.1560	0.1539	0.1381	0.1494	0.1517	0.1539	0.1547	0.1627	0.1559	0.1524	
Filter Paper Wt, g	0.0836	0.0777	0.0785	0.0725	0.0750	0.0771	0.0777	0.0764	0.0822	0.0768	0.0814	
Dry Particulates Wt, g	0.0887	0.0783	0.0754	0.0656	0.0744	0.0746	0.0762	0.0783	0.0805	0.0791	0.0710	
Volume (mL)	136	135	112	105	115	128	120	125	113	118	112	
Particulates TSS Conc. (mg/L)	652.2	580.0	673.2	624.8	647.0	582.8	635.0	626.4	712.4	670.3	633.9	
Turbidity (NTU)	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	31	32	33	34	35	36	40	56	60	91	182	192
Dry Particulates + Filter Paper Wt, g	0.1351	0.1378	0.1365	0.1347	0.1424	0.1403	0.1333	0.1224	0.1301	0.1302	0.1336	0.1490
Filter Paper Wt, g	0.0771	0.0801	0.0780	0.0780	0.0788	0.0803	0.0804	0.0776	0.0799	0.0786	0.0810	0.0779
Dry Particulates Wt, g	0.0580	0.0577	0.0585	0.0567	0.0636	0.0600	0.0529	0.0448	0.0502	0.0516	0.0526	0.0711
Volume (mL)	121	122	115	109	105	118	110	100	110	118	121	121
Particulates TSS Conc. (mg/L)	479.339	472.951	508.696	520.183	605.714	508.475	480.909	448.000	456.182	437.288	434.711	587.603
Turbidity (NTU)	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range	Out of range

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	102A	208	74	70	122	98	99A	98A	11	152	102	101
Dry Particulates + Filter Paper Wt, g	0.1137	0.1104	0.1081	0.1138	0.1152	0.1124	0.1118	0.1139	0.1138	0.1157	0.1146	0.1191
Filter Paper Wt, g	0.0808	0.0787	0.0786	0.0814	0.0809	0.0775	0.0786	0.0783	0.0781	0.0778	0.0789	0.0788
Dry Particulates Wt, g	0.0329	0.0317	0.0295	0.0324	0.0343	0.0349	0.0332	0.0356	0.0357	0.0379	0.0357	0.0403
Volume (mL)	115	110	109	107	108	111	110	110	110	110	109	99
Particulates TSS Conc. (mg/L)	286.087	288.182	270.642	302.804	317.593	314.414	301.818	323.636	324.545	344.545	327.523	407.071
Turbidity (NTU)	600	700	750	800	800	850	850	850	850	850	850	850

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	18	22	23	43	44	45	48	49	51	96	114
Dry Particulates + Filter Paper Wt, g		0.1045	0.1062	0.1023	0.1058	0.1093	0.1043	0.1092	0.1065	0.1052	0.1088	0.1079
Filter Paper Wt, g		0.0778	0.0795	0.0774	0.0764	0.0799	0.0769	0.0806	0.0772	0.0764	0.0787	0.0772
Dry Particulates Wt, g		0.0267	0.0267	0.0249	0.0294	0.0294	0.0274	0.0286	0.0293	0.0288	0.0301	0.0307
Volume (mL)		102	109	104	110	110	103	103	111	110	109	113
Particulates TSS Conc. (mg/L)		261.765	244.954	239.423	267.273	267.273	266.019	277.670	263.964	261.818	276.147	271.681
Turbidity (NTU)		550	550	600	650	650	650	650	650	650	700	650

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	25	21	8	5	15	190	6	24	16	9	198
Dry Particulates + Filter Paper Wt, g		0.0949	0.0933	0.0969	0.0940	0.0960	0.0958	0.0930	0.0845	0.0910	0.0899	0.0893
Filter Paper Wt, g		0.0779	0.0791	0.0813	0.0800	0.0811	0.0806	0.0778	0.0739	0.0780	0.0787	0.0746
Dry Particulates Wt, g		0.0170	0.0142	0.0156	0.0140	0.0149	0.0152	0.0152	0.0106	0.0130	0.0112	0.0147
Volume (mL)		123	125	117	124	118	113	118	113	118	112	115
Particulates TSS Conc. (mg/L)		138.211	113.600	133.333	112.903	126.271	134.513	128.814	93.805	110.169	100.000	127.826
Turbidity (NTU)		260	260	260	260	270	280	280	260	270	270	280

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	111	116	41	59	69	32	82	74	181	97	7
Dry Particulates + Filter Paper Wt, g		0.0921	0.0861	0.0904	0.0931	0.0876	0.0848	0.0819	0.0900	0.0896	0.0904	0.0902
Filter Paper Wt, g		0.0841	0.0788	0.0832	0.0848	0.0804	0.0743	0.0730	0.0820	0.0792	0.0787	0.0769
Dry Particulates Wt, g		0.0080	0.0073	0.0072	0.0083	0.0072	0.0105	0.0089	0.0080	0.0104	0.0117	0.0133
Volume (mL)		124	126	125	125	144	115	125	118	127	126	139
Particulates TSS Conc. (mg/L)		64.516	57.937	57.600	66.400	50.000	91.304	71.200	67.797	81.890	92.857	95.683
Turbidity (NTU)		110	130	130	140	140	150	150	150	150	160	160

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	79	84	85	89	90	105	105A	107	108	113	181
Dry Particulates + Filter Paper Wt, g		0.0903	0.1720	0.1705	0.1745	0.1767	0.1795	0.1741	0.1699	0.1779	0.1742	0.1752
Filter Paper Wt, g		0.0863	0.1671	0.1637	0.1673	0.1687	0.1710	0.1660	0.1624	0.1702	0.1662	0.1662
Dry Particulates Wt, g		0.0040	0.0049	0.0068	0.0072	0.0080	0.0085	0.0081	0.0075	0.0077	0.0080	0.0090
Volume (mL)		135	110	120	120	120	120	120	120	120	120	120
Particulates TSS Conc. (mg/L)		29.630	44.545	56.667	60.000	66.667	70.833	67.500	62.500	64.167	66.667	75.000
Turbidity (NTU)		40	55	80	90	100	110	110	110	110	110	120

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	16	17	19	21	22	23	24	25	26	28	29
Dry Particulates + Filter Paper Wt, g		0.0842	0.0839	0.0833	0.0825	0.0821	0.0917	0.0867	0.0842	0.0910	0.0907	0.0891
Filter Paper Wt, g		0.0807	0.0802	0.0797	0.0781	0.0790	0.0871	0.0835	0.0788	0.0858	0.0861	0.0849
Dry Particulates Wt, g		0.0035	0.0037	0.0036	0.0044	0.0031	0.0046	0.0032	0.0054	0.0052	0.0046	0.0042
Volume (mL)		132	118	115		112	105	104	110	108	107	100
Particulates TSS Conc. (mg/L)		26.515	31.356	31.304	#VALUE!	27.679	43.810	30.769	49.091	48.148	42.991	42.000
Turbidity (NTU)		27	30	40	45	45	50	50	55	60	60	60

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40061	CST Test #:	8
Test Start Date:	3/14/2007	Tested By:	md
Test Start Time:	9:29	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	17	103A	161	81	206	28	121	210	156	209
Dry Particulates + Filter Paper Wt, g			0.0885	0.1721	0.1778	0.1781	0.1771	0.0886	0.1742	0.1748	0.1676	0.0921
Filter Paper Wt, g			0.0851	0.1682	0.174	0.1734	0.1725	0.0844	0.17	0.1706	0.1627	0.0876
Dry Particulates Wt, g			0.0034	0.0039	0.0038	0.0047	0.0046	0.0042	0.0042	0.0042	0.0049	0.0045
Volume (mL)			138	135	137	140	139	140	139	146	150	142
Particulates TSS Conc. (mg/L)			28.261	28.148	34.307	32.857	30.216	30.000	30.216	33.562	30.000	0.000
Turbidity (NTU)			27	27	27	26	27	28	27	28	28	29

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-40061	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50274		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-40061	---	Moist, gray silt	45.1

Notes: Temperature of Drying : 110° Celsius

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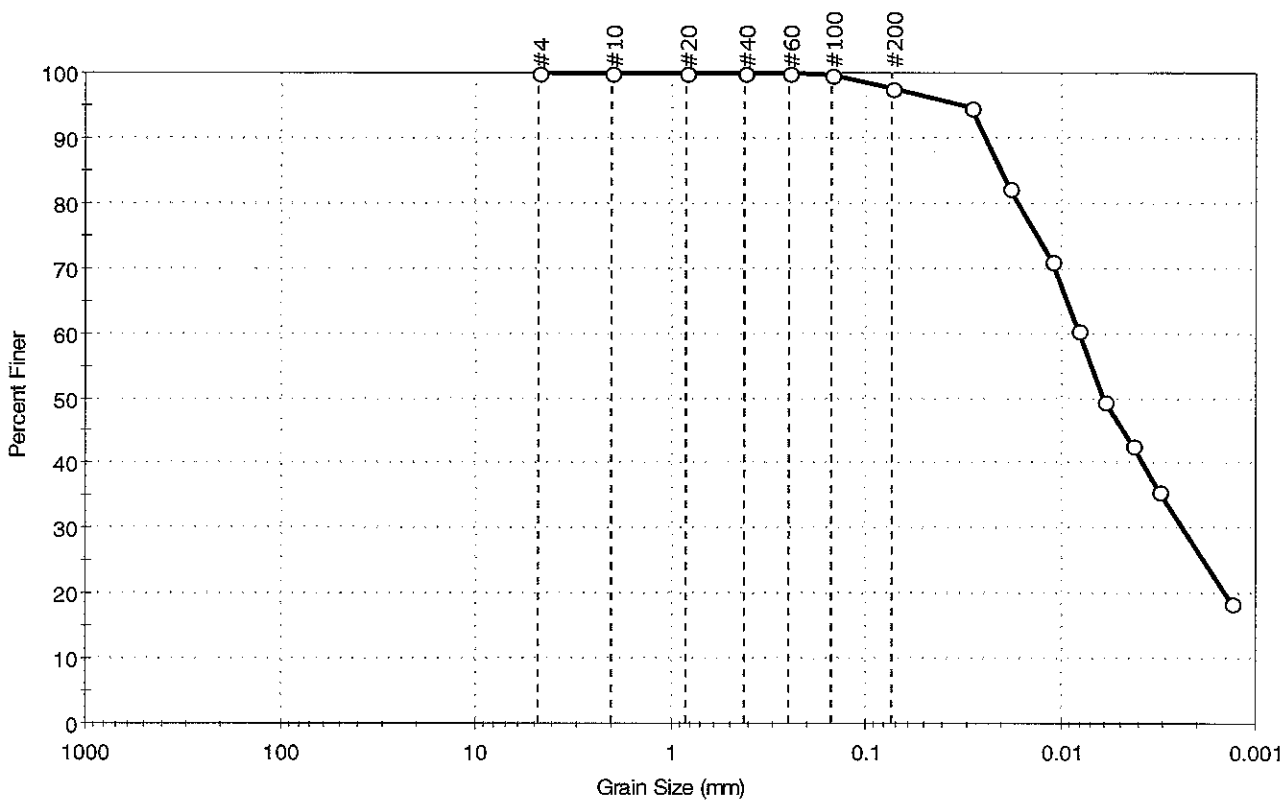
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-40061	Test Date: 04/04/07	Checked By:	jdt
Depth : ---	Test Id: 109698		
Test Comment: ---			
Sample Description: Moist, gray silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	2.3	97.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0289	95		
---	0.0186	82		
---	0.0112	71		
---	0.0082	60		
---	0.0060	50		
---	0.0043	43		
---	0.0031	36		
---	0.0013	19		

Coefficients

D_{85} = 0.0204 mm	D_{30} = 0.0023 mm
D_{60} = 0.0081 mm	D_{15} = N/A
D_{50} = 0.0061 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM silt (ML)

AASHTO Clayey Soils (A-7-5 (23))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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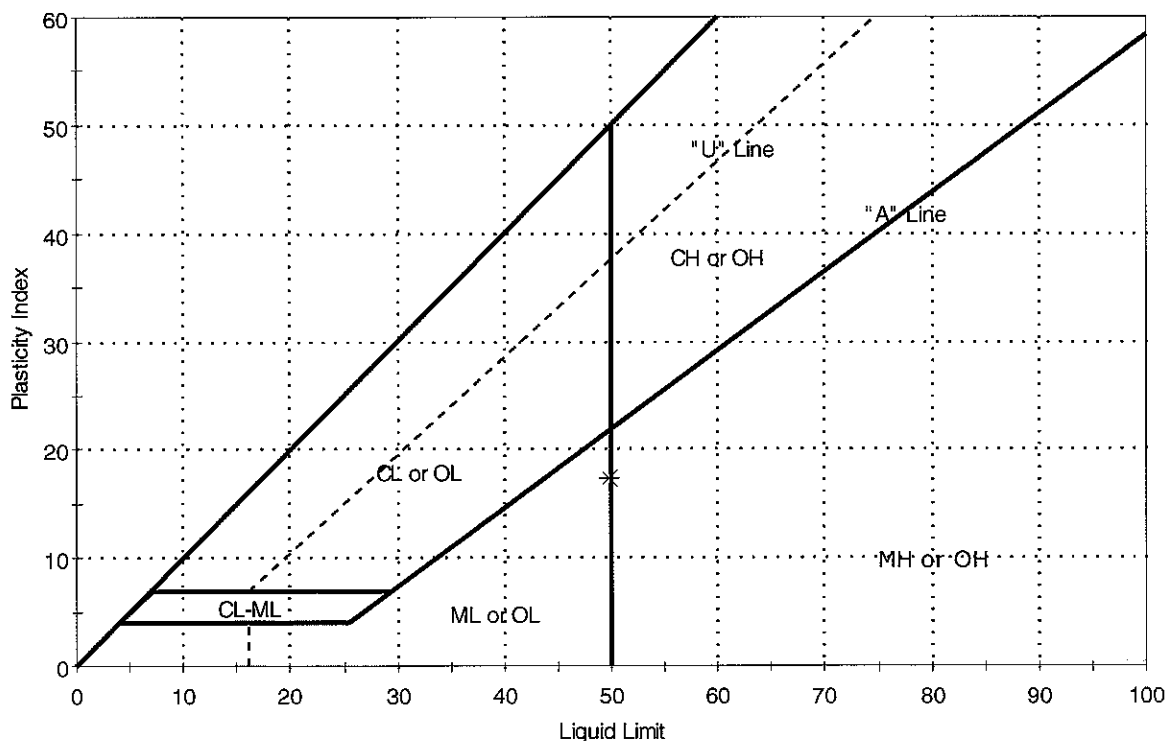
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-40061	Test Date:	04/26/07	Checked By:	jdt
Depth :	---	Test Id:	109715		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-40061	---	---	45	50	32	18	1	silt (ML)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-40061	Test Date:	04/09/07	Checked By:	jdt
Depth :	---	Test Id:	109749		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-40061	---	Moist, gray silt	2.65

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/03/07
Tested by:	md
Checked by:	jdt

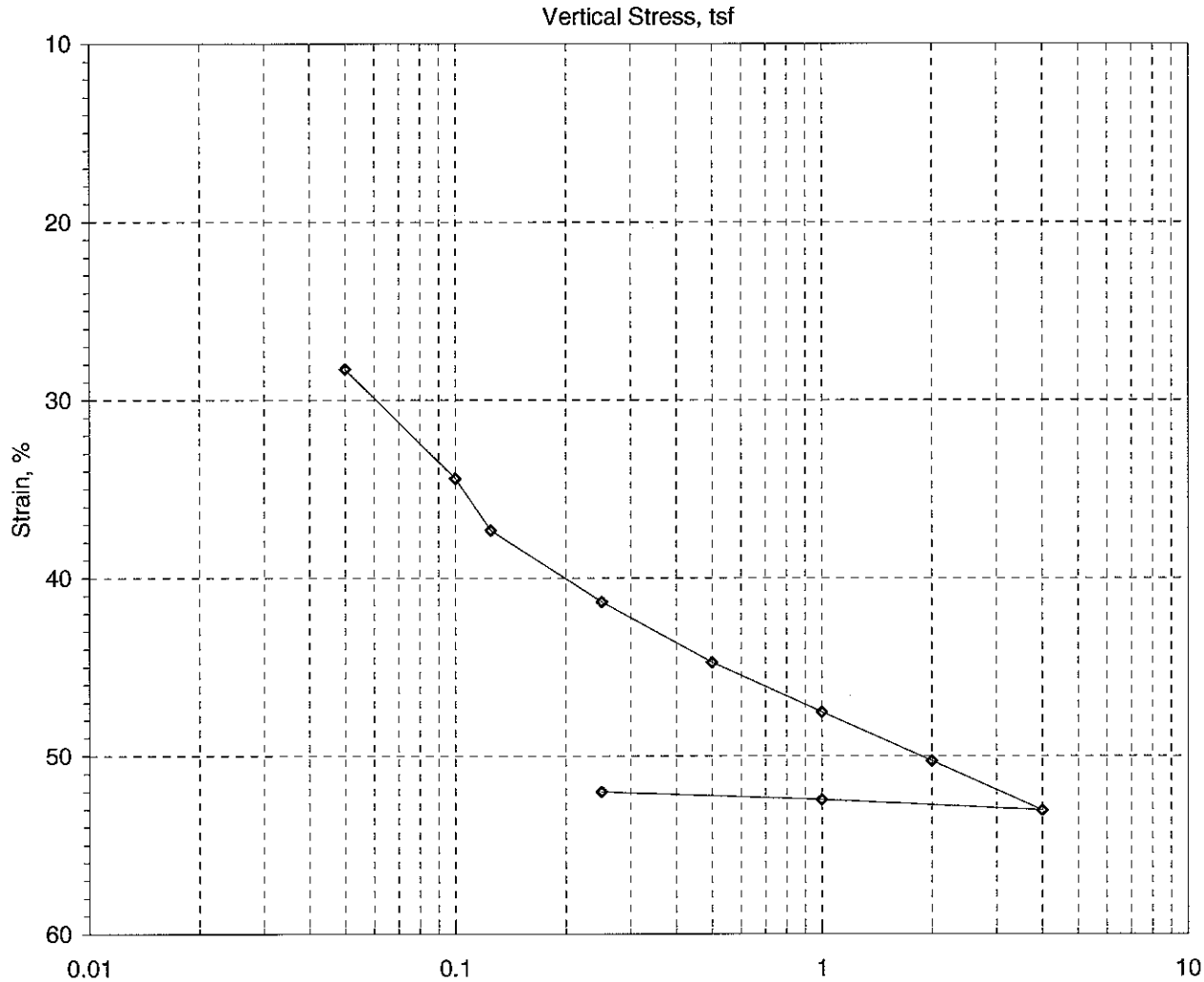
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-40061	Moist, gray silt	0.35	0.35	0.33	0.38	0.35

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	125	36
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	40.5	84.4
Compression Index:	---			Saturation, %	97.3	100.0
Diameter:	11.0 in	Initial Height:	6.45 in	Void Ratio	3.08	0.96
LL: 50	PL: 32	PI: 18	GS: 2.65			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40061
Test No.:CST 8 (LC-5)

Location: Syracuse, NY
Tested By: md
Test Date: 03/29/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System Q

Measured Specific Gravity: 2.65
Initial Void Ratio: 3.08
Final Void Ratio: 0.96

Liquid Limit: 50
Plastic Limit: 32
Plasticity Index: 18

Initial Height: 6.45 in
Specimen Diameter: 11.00 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	114	RING		unknown
Wt. Container + Wet Soil, gm	122.83	30340	25320	229.68
Wt. Container + Dry Soil, gm	92.49	22958	22958	170.83
Wt. Container, gm	68.19	16440	16440	8.42
Wt. Dry Soil, gm	24.3	6518.1	6518.1	162.41
Water Content, %	124.9	113.3	36.2	36.2
Void Ratio	---	3.08	0.96	---
Degree of Saturation, %	---	97.3	100.0	---
Dry Unit Weight, pcf	---	40.5	84.4	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40061
Test No.: CST 8 (LC-5)

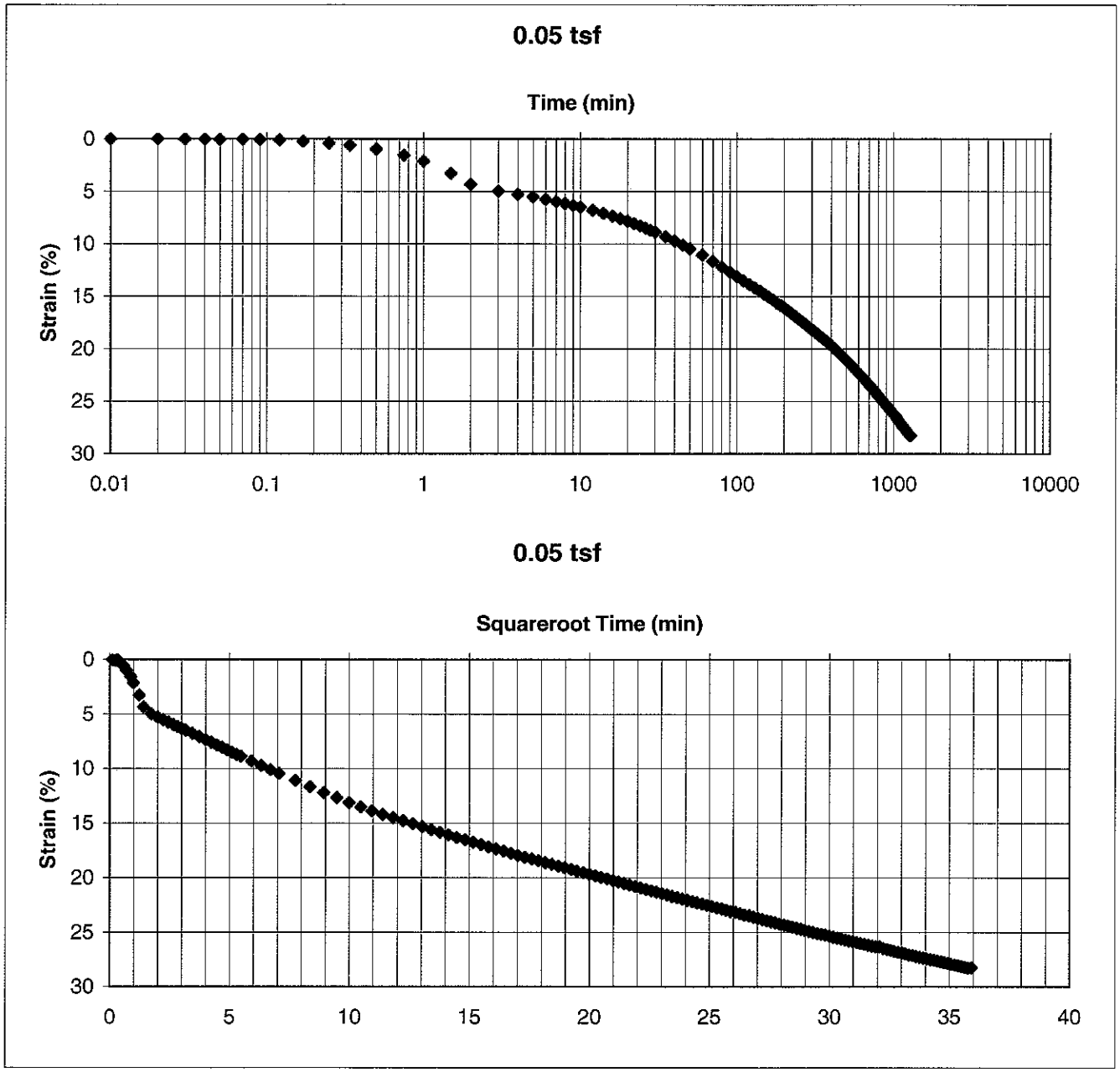
Location: Syracuse, NY
Tested By: md
Test Date: 03/29/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System Q

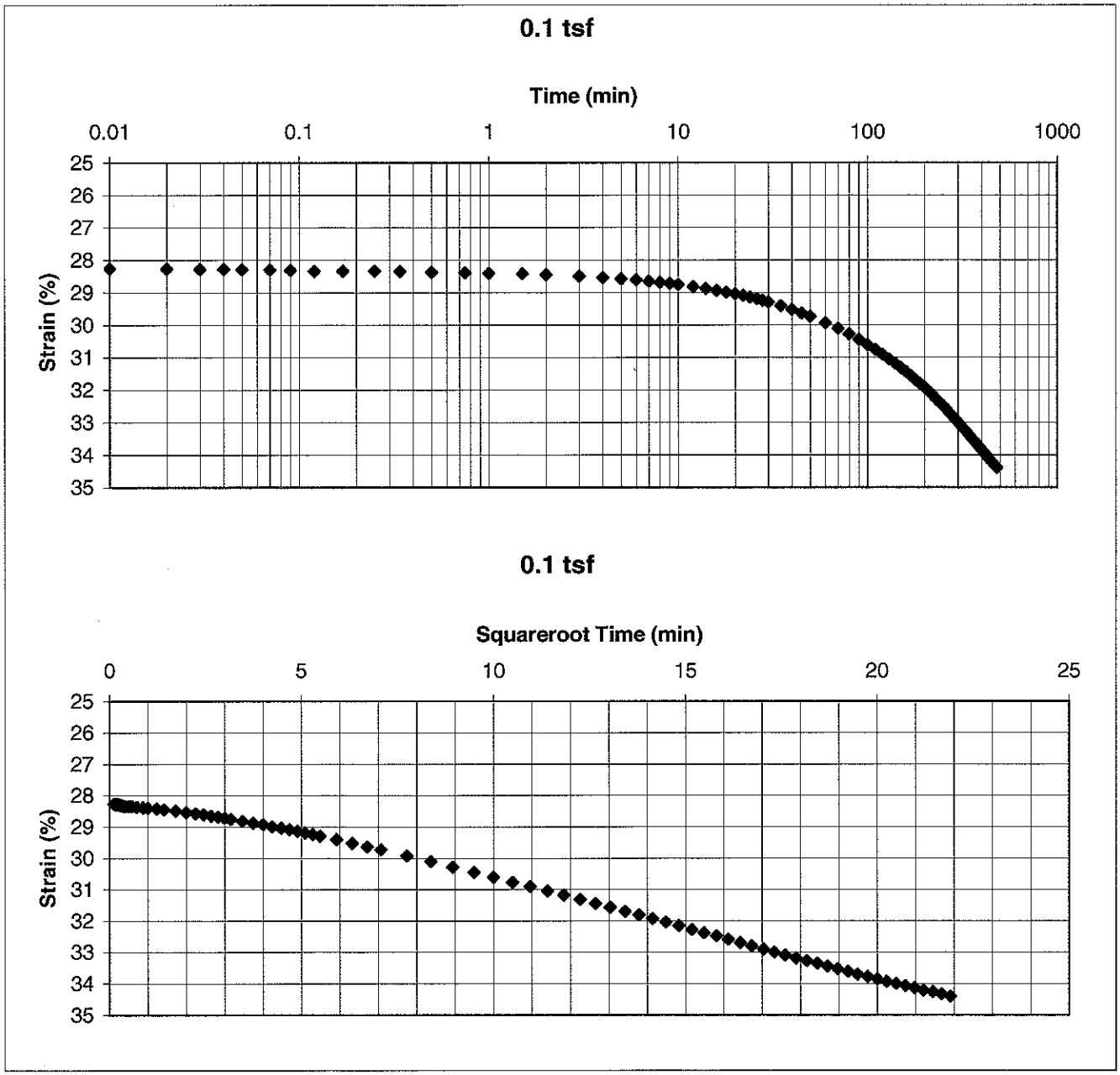
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	1.8231	2.5186	28.265	0	0	0.00E+00	0.00E+00	0.00E+00
2	0.1	2.2187	2.218	34.398	0	0	0.00E+00	0.00E+00	0.00E+00
3	0.125	2.4069	2.075	37.316	142.8	0	1.09E-03	0.00E+00	1.09E-03
4	0.25	2.66583	1.878	41.331	103.3	0	1.41E-03	0.00E+00	1.41E-03
5	0.5	2.8855	1.711	44.736	48.1	52.9	2.81E-03	2.55E-03	2.68E-03
6	1	3.0658	1.574	47.532	25.6	22.8	4.97E-03	5.58E-03	5.25E-03
7	2	3.243	1.439	50.279	14	14.1	8.56E-03	8.49E-03	8.52E-03
8	4	3.4218	1.303	53.051	8.1	9.4	1.39E-02	1.20E-02	1.29E-02
9	1	3.3831	1.332	52.451	0	0	3.34E+00	0.00E+00	3.34E+00
10	0.25	3.354	1.354	52.000	1.4	0	7.86E-02	0.00E+00	7.86E-02

CONSOLIDATION TEST DATA
TIME CURVES



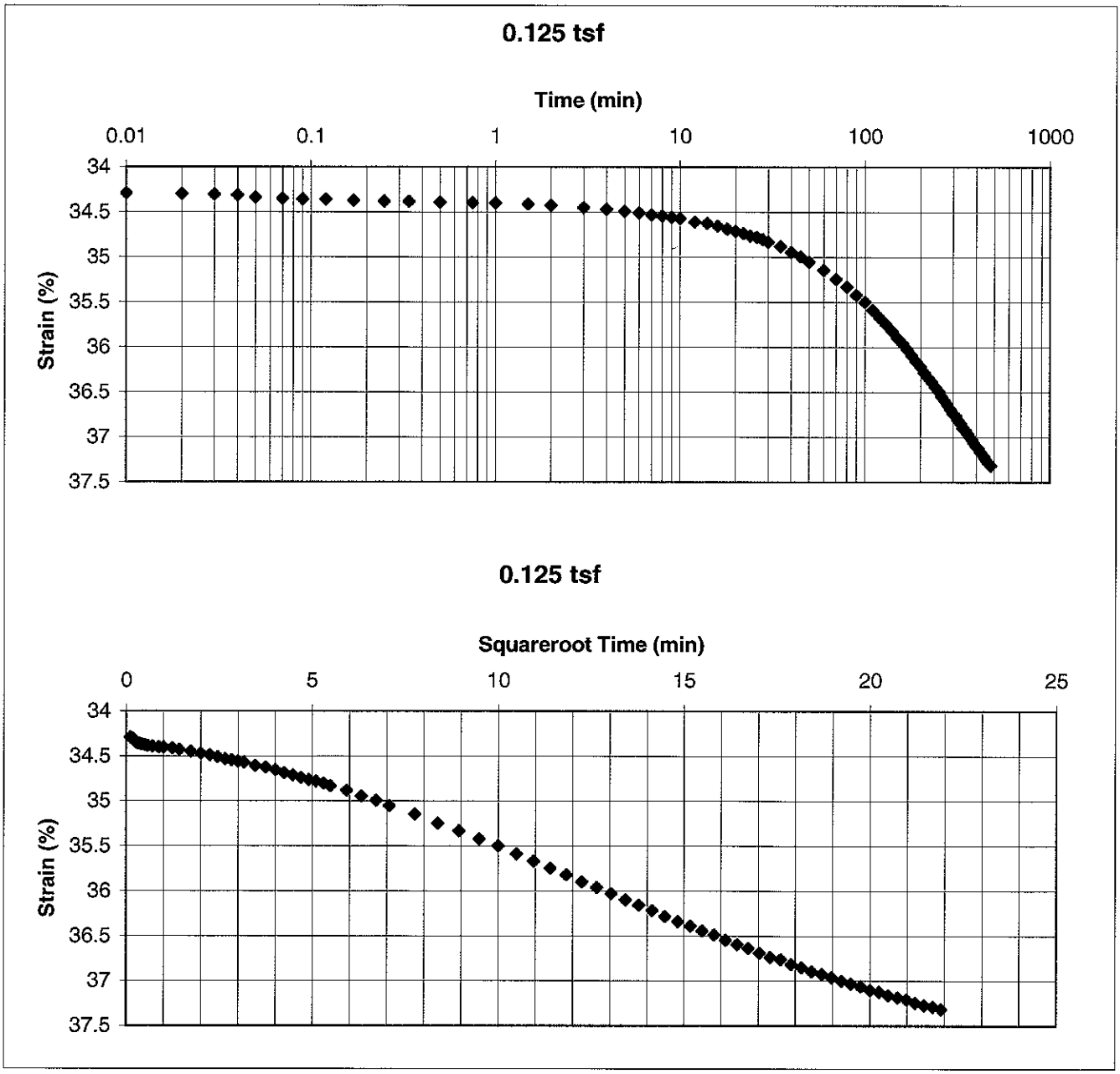
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



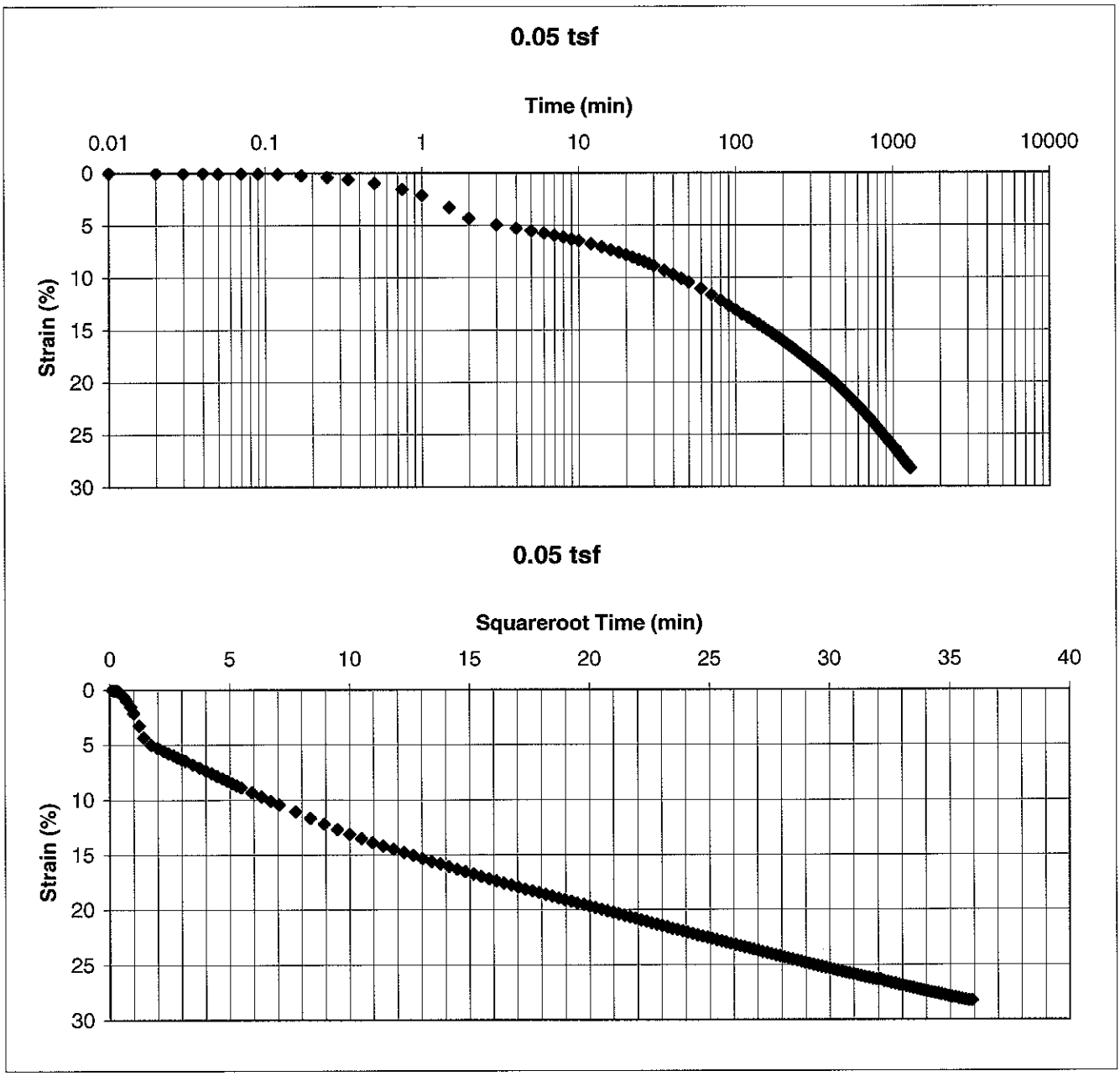
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

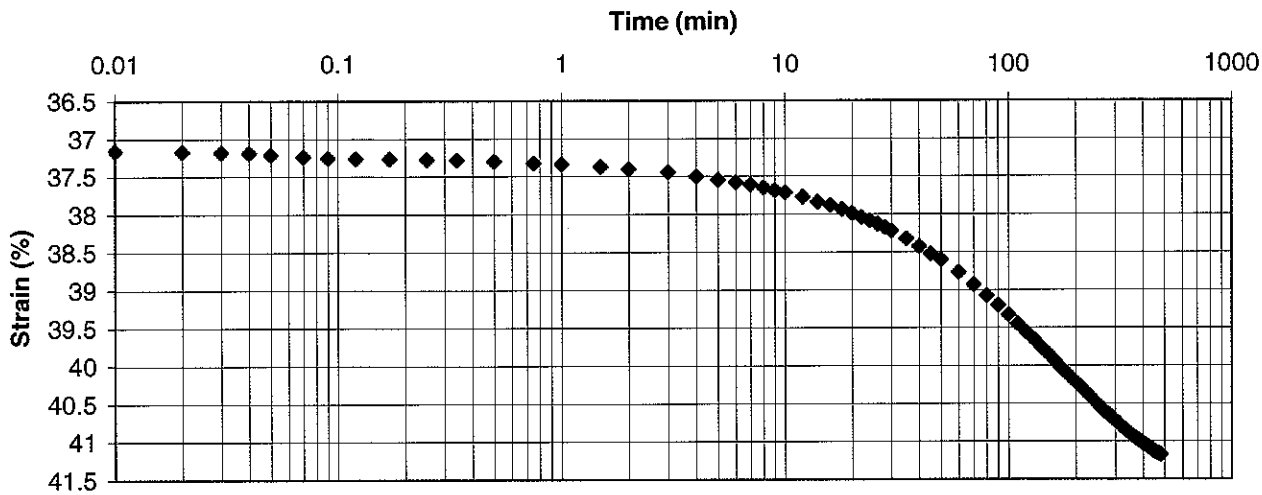
CONSOLIDATION TEST DATA
TIME CURVES

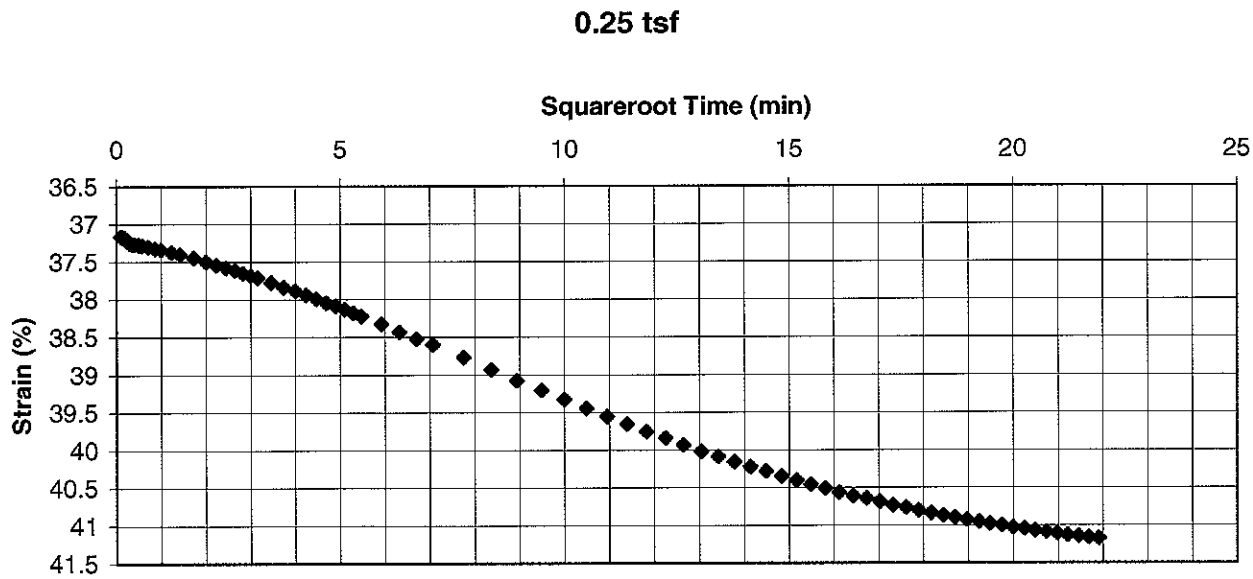


GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA

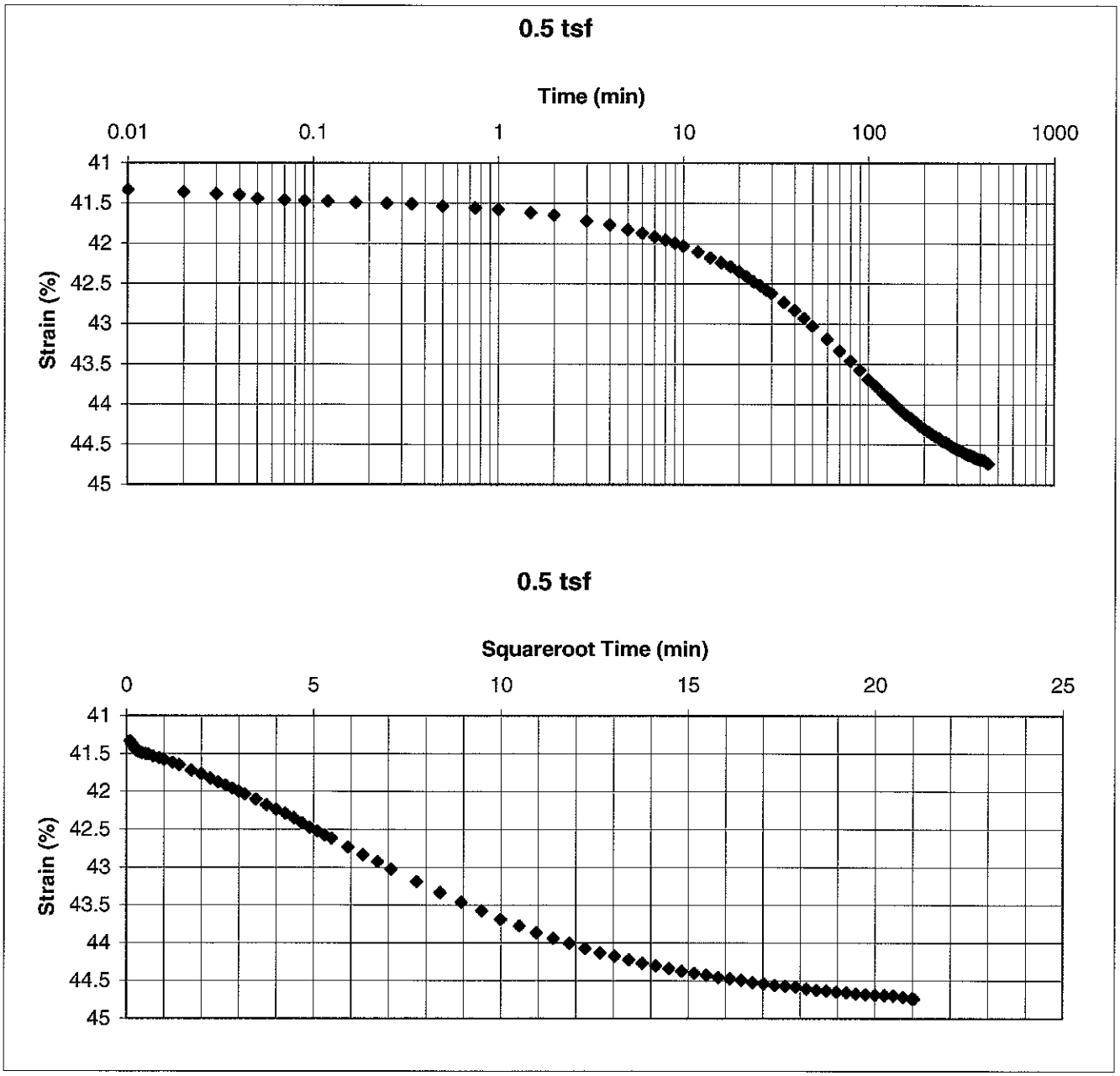
TIME CURVES





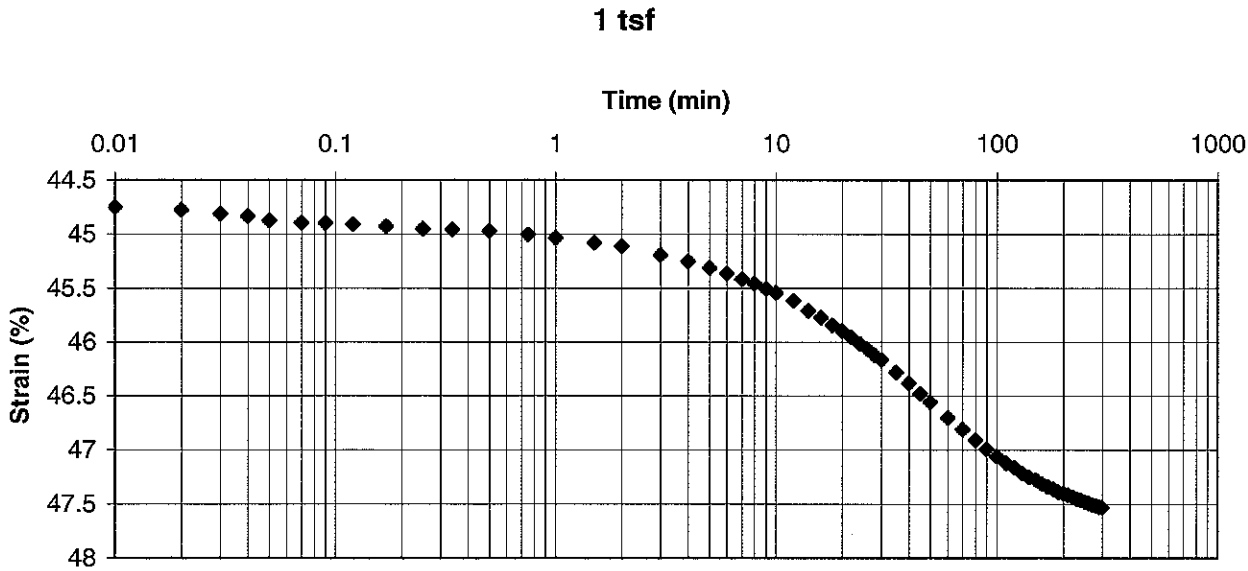
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

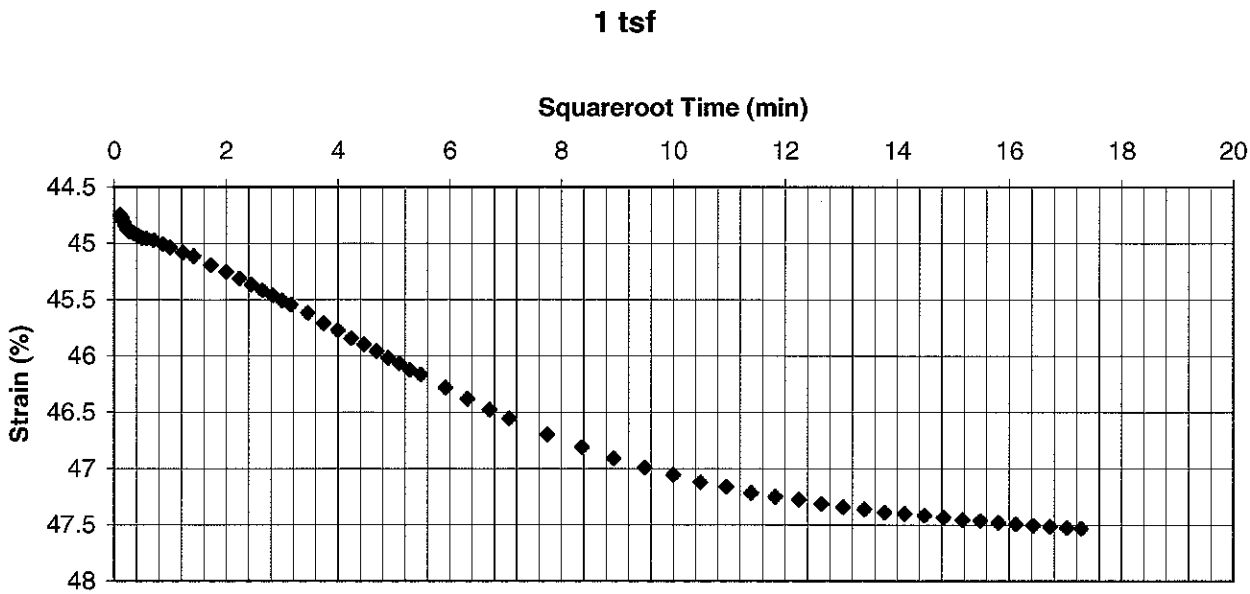
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

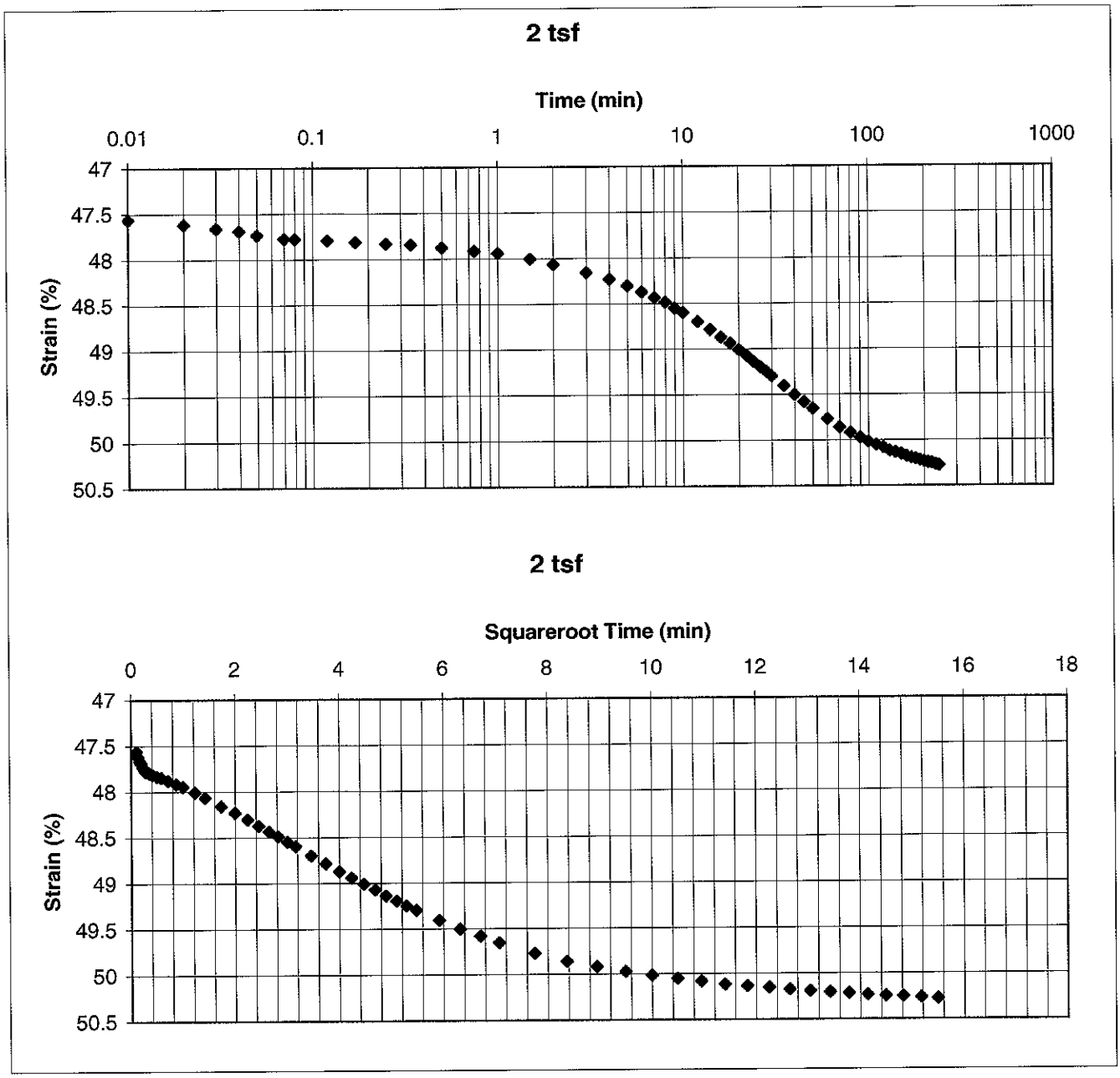
CONSOLIDATION TEST DATA
TIME CURVES





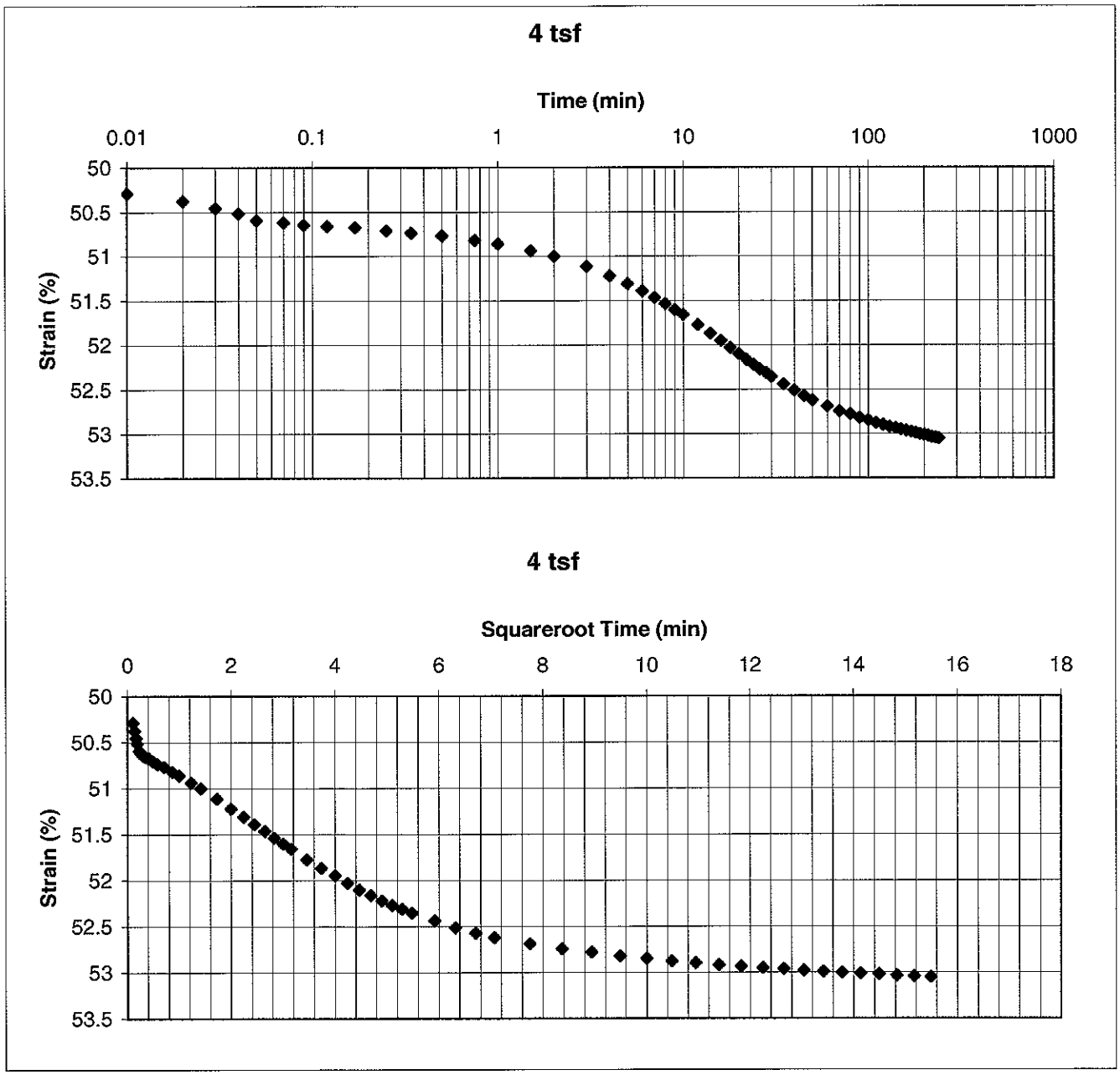
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



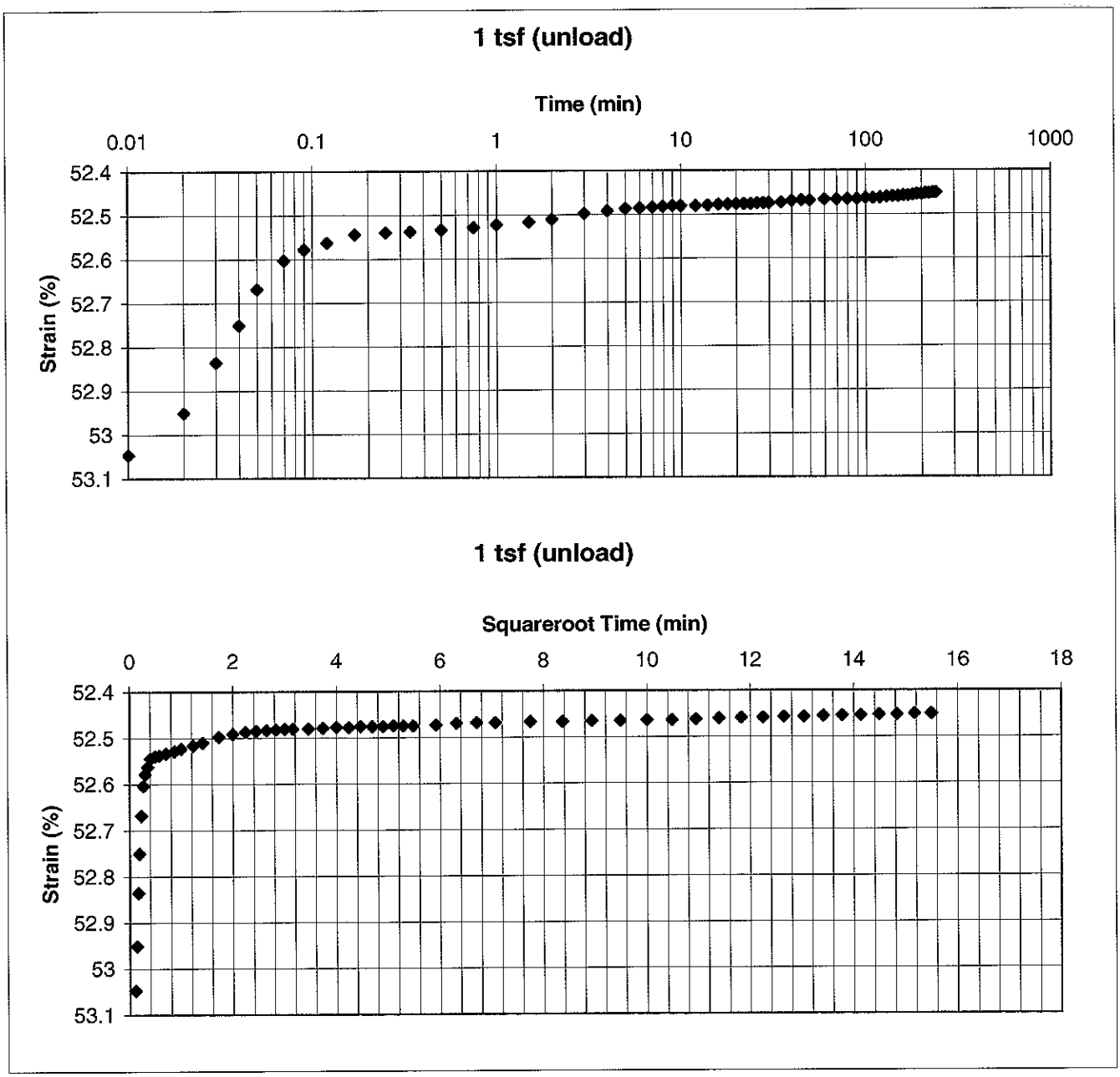
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



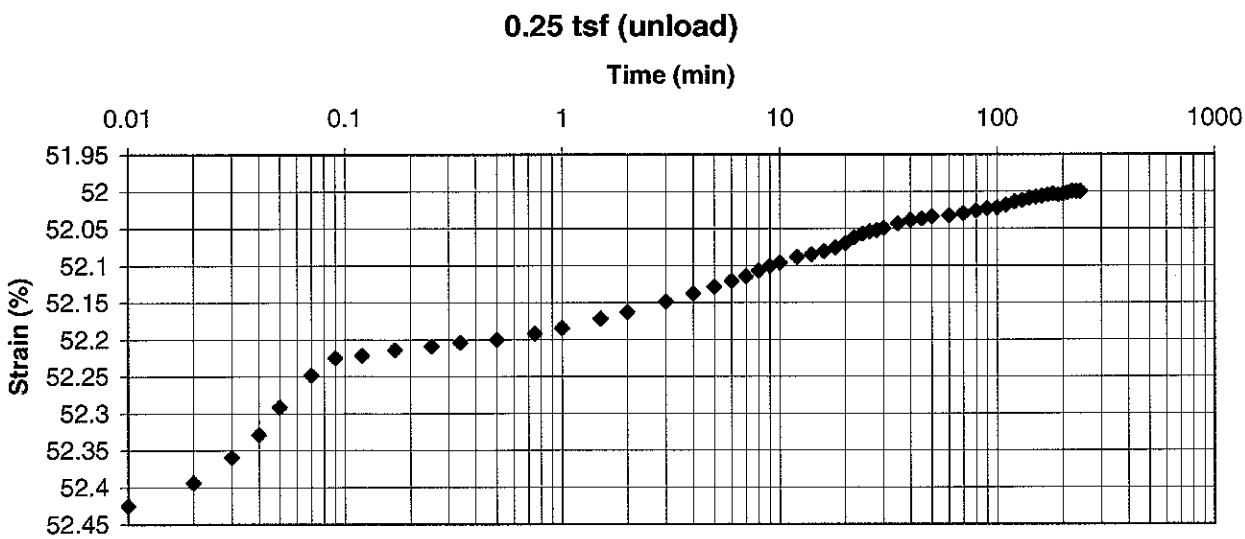
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

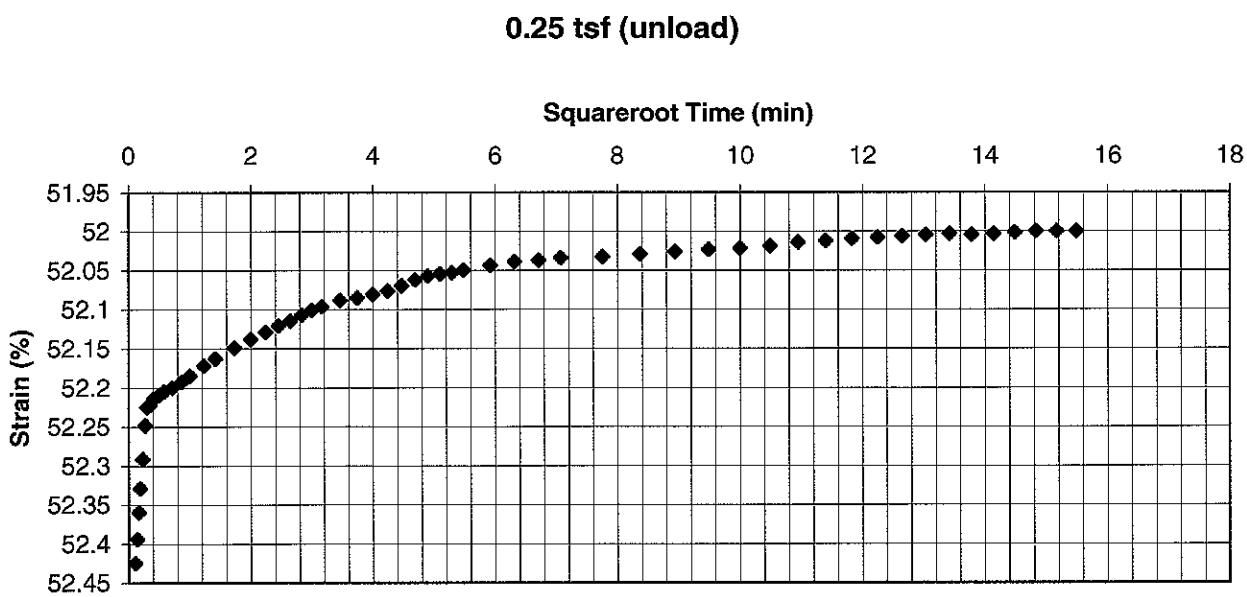
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40061	Test Date:	3/29/2007	Depth:	---
	Test No.: CST 8 (LC-5)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

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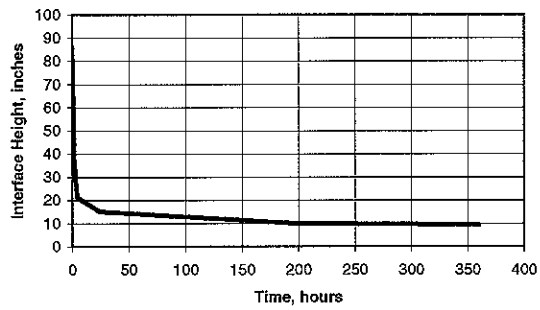
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/20/07	9:10 AM	0	0.00	85.9	85.9		
	9:12 AM	2	0.03	85.9	84.5		
	9:15 AM	5	0.08	85.9	82.9		
	9:18 AM	8	0.13	85.9	81.1		
	9:20 AM	10	0.17	85.9	80.0		
	9:23 AM	13	0.22	85.9	78.3		
	9:29 AM	19	0.32	85.9	76.2		
	9:54 AM	44	0.73	85.9	62.0		
	10:54 AM	104	1.73	85.9	37.3		
	11:10 AM	120	2.00	85.9	35.3		
	11:18 AM	128	2.13	84.4	33.9		
	11:52 AM	162	2.70	84.4	29.9		
	1:25 AM	255	4.25	83.2	21.2		
03/21/07	9:25 AM	1455	24.25	80.2	15.1		
03/28/07	2:45 AM	11855	197.58	77.2	10		
04/04/07	9:30 AM	21620	360.33	75.75	9.32		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	1691	438	1930									
Wet Sample + Tare Wt, g	177.59	179.08	178.42									
Dried Sample + Tare Wt, g	119.68	124.06	118.14									
Tare Wt, g	112.14	116.78	110.14									
Water Wt, g	57.91	55.02	60.28									
Dried Sample Wt, g	7.54	7.28	8									
Salt Wt, g	0.031	0.030	0.033									
Particulates Wt, g	7.509	7.250	7.967									
Particulates Conc. (g/L)	123.3	125.2	125.5									

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Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into colu **None collected**

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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GTX Project No.:	7143		
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Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	28	37	205	46								
Wet Sample + Tare Wt, g	110.74	110.28	112.92	108.55								
Dried Sample + Tare Wt, g	66.37	67.66	66.62	66.07								
Tare Wt, g	66.27	67.59	66.54	65.99								
Water Wt, g	44.37	42.62	46.30	42.48								
Dried Sample Wt, g	0.10	0.07	0.08	0.08								
Salt Wt, g	0.024	0.023	0.025	0.023								
Particulates Wt, g	0.076	0.047	0.055	0.057								
Particulates Conc. (g/L)	1.7	1.1	1.2	1.3								

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	155	178	168	207	210	169	29	13				
Wet Sample + Tare Wt, g	106.75	110.04	115.39	110.28	113.60	108.72	115.47	111.14				
Dried Sample + Tare Wt, g	67.06	67.29	68.04	67.45	66.89	67.06	68.77	65.71				
Tare Wt, g	66.98	67.19	67.93	67.37	66.81	66.97	68.65	65.60				
Water Wt, g	39.69	42.75	47.35	42.83	46.71	41.66	46.70	45.43				
Dried Sample Wt, g	0.08	0.10	0.11	0.08	0.08	0.09	0.12	0.11				
Salt Wt, g	0.022	0.023	0.026	0.023	0.025	0.023	0.025	0.025				
Particulates Wt, g	0.058	0.077	0.084	0.057	0.055	0.067	0.095	0.085				
Particulates Conc. (g/L)	1.5	1.8	1.8	1.3	1.2	1.6	2.0	1.9				

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Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	54	156	19	199	123	200	161	17	14	3		
Wet Sample + Tare Wt, g	109.44	116.37	109.21	116.87	112.30	110.22	106.83	114.29	117.36	114.40		
Dried Sample + Tare Wt, g	67.49	66.69	66.85	66.88	65.72	67.62	66.51	66.91	66.63	66.46		
Tare Wt, g	67.44	66.63	66.81	66.82	65.66	67.57	66.48	66.84	66.52	66.36		
Water Wt, g	41.95	49.68	42.36	49.99	46.58	42.60	40.32	47.38	50.73	47.94		
Dried Sample Wt, g	0.05	0.06	0.04	0.06	0.06	0.05	0.03	0.07	0.11	0.10		
Salt Wt, g	0.023	0.027	0.023	0.027	0.025	0.023	0.022	0.026	0.028	0.026		
Particulates Wt, g	0.027	0.033	0.017	0.033	0.035	0.027	0.008	0.044	0.082	0.074		
Particulates Conc. (g/L)	0.6	0.7	0.4	0.7	0.7	0.6	0.2	0.9	1.6	1.5		

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Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	109	43	180	167	177	171	192	122	103A	100	101A	
Wet Sample + Tare Wt, g	111.03	109.91	112.60	122.05	114.83	118.26	127.32	121.07	119.50	124.30	126.35	
Dried Sample + Tare Wt, g	68.25	67.63	67.96	66.83	66.97	66.78	67.44	67.39	68.23	68.48	67.39	
Tare Wt, g	68.18	67.54	67.88	66.73	66.89	66.68	67.31	67.27	68.14	68.38	67.28	
Water Wt, g	42.78	42.28	44.64	55.22	47.86	51.48	59.88	53.68	51.27	55.82	58.96	
Dried Sample Wt, g	0.07	0.09	0.08	0.10	0.08	0.10	0.13	0.12	0.09	0.10	0.11	
Salt Wt, g	0.023	0.023	0.024	0.030	0.026	0.028	0.033	0.029	0.028	0.030	0.032	
Particulates Wt, g	0.047	0.067	0.056	0.070	0.054	0.072	0.097	0.091	0.062	0.070	0.078	
Particulates Conc. (g/L)	1.1	1.6	1.2	1.3	1.1	1.4	1.6	1.7	1.2	1.2	1.3	

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
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Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	74	186	27	163	89	20	181	110	107	18	12	108
Wet Sample + Tare Wt, g	110.01	112.91	108.46	114.55	111.14	113.85	111.65	112.19	120.75	115.29	119.12	127.88
Dried Sample + Tare Wt, g	67.89	67.07	65.84	68.36	66.24	67.83	67.87	66.28	66.37	67.54	66.32	67.78
Tare Wt, g	67.83	67.02	65.78	68.30	66.17	67.77	67.79	66.20	66.28	67.46	66.24	67.69
Water Wt, g	42.12	45.84	42.62	46.19	44.9	46.02	43.78	45.91	54.38	47.75	52.8	60.1
Dried Sample Wt, g	0.06	0.05	0.06	0.06	0.07	0.06	0.08	0.08	0.09	0.08	0.08	0.09
Salt Wt, g	0.023	0.025	0.023	0.025	0.024	0.025	0.024	0.025	0.030	0.026	0.029	0.033
Particulates Wt, g	0.037	0.025	0.037	0.035	0.046	0.035	0.056	0.055	0.060	0.054	0.051	0.057
Particulates Conc. (g/L)	0.9	0.5	0.9	0.8	1.0	0.8	1.3	1.2	1.1	1.1	1.0	1.0

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Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	30	31	32	33	34	35	37	38	39	40	41	42
Wet Sample + Tare Wt, g	101.36	109.63	109.02	112.00	116.19	107.53	107.98	121.83	116.72	126.15	98.94	116.37
Dried Sample + Tare Wt, g	67.53	67.44	66.29	67.64	66.48	67.41	67.67	66.32	68.16	66.63	66.09	67.44
Tare Wt, g	67.45	67.34	66.20	67.53	66.36	67.32	67.57	66.17	68.05	66.48	66.01	67.32
Water Wt, g	33.83	42.19	42.73	44.36	49.71	40.12	40.31	55.51	48.56	59.52	32.85	48.93
Dried Sample Wt, g	0.08	0.10	0.09	0.11	0.12	0.09	0.10	0.15	0.11	0.15	0.08	0.12
Salt Wt, g	0.018	0.023	0.023	0.024	0.027	0.022	0.022	0.030	0.026	0.032	0.018	0.027
Particulates Wt, g	0.062	0.077	0.067	0.086	0.093	0.068	0.078	0.120	0.084	0.118	0.062	0.093
Particulates Conc. (g/L)	1.8	1.8	1.6	1.9	1.9	1.7	1.9	2.2	1.7	2.0	1.9	1.9

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Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	19	105	105A	79	100A	29	106	100	24	6	99A
Wet Sample + Tare Wt, g		112.97	112.27	110.24	114.95	112.66	114.39	117.75	109.66	116.05	117.04	123.26
Dried Sample + Tare Wt, g		66.89	66.68	68.07	68.35	68.03	69.20	67.82	68.89	68.15	68.67	67.73
Tare Wt, g		66.79	66.13	67.53	67.77	67.47	68.64	67.20	68.37	67.56	68.08	67.06
Water Wt, g		46.08	45.59	42.17	46.60	44.63	45.19	49.93	40.77	47.90	48.37	55.53
Dried Sample Wt, g		0.1	0.55	0.54	0.58	0.56	0.56	0.62	0.52	0.59	0.59	0.67
Salt Wt, g		0.025	0.025	0.023	0.025	0.024	0.025	0.027	0.022	0.026	0.026	0.030
Particulates Wt, g		0.075	0.525	0.517	0.555	0.536	0.535	0.593	0.498	0.564	0.564	0.640
Particulates Conc. (g/L)		1.6	11.5	12.2	11.8	11.9	11.8	11.8	12.2	11.7	11.6	11.5

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	167	164	101A	155	105A	171	19	188	120	183	179
Wet Sample + Tare Wt, g		108.09	105.06	105.79	111.54	109.13	116.82	113.87	118.93	111.83	118.31	112.24
Dried Sample + Tare Wt, g		66.82	67.16	67.37	67.06	67.63	66.79	66.88	66.85	66.25	67.04	67.84
Tare Wt, g		66.74	67.10	67.30	66.99	67.55	66.70	66.80	66.76	66.17	66.95	67.76
Water Wt, g		41.27	37.90	38.42	44.48	41.50	50.03	46.99	52.08	45.58	51.27	44.40
Dried Sample Wt, g		0.08	0.06	0.07	0.07	0.08	0.09	0.08	0.09	0.08	0.09	0.08
Salt Wt, g		0.022	0.021	0.021	0.024	0.023	0.027	0.026	0.028	0.025	0.028	0.024
Particulates Wt, g		0.058	0.039	0.049	0.046	0.057	0.063	0.054	0.062	0.055	0.062	0.056
Particulates Conc. (g/L)		1.4	1.0	1.3	1.0	1.4	1.3	1.2	1.2	1.2	1.2	1.3

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	29	203	154	202	66	162	159	99A	157	160	193
Wet Sample + Tare Wt, g		108.61	106.56	109.21	112.29	112.68	114.59	116.54	111.51	144.56	117.80	115.96
Dried Sample + Tare Wt, g		68.72	67.19	67.35	67.42	67.81	66.80	66.86	67.14	68.06	67.06	66.97
Tare Wt, g		68.66	67.10	67.27	67.31	67.72	66.70	66.79	67.08	67.91	66.97	66.88
Water Wt, g		39.89	39.37	41.86	44.87	44.87	47.79	49.68	44.37	76.50	50.74	48.99
Dried Sample Wt, g		0.06	0.09	0.08	0.11	0.09	0.10	0.07	0.06	0.15	0.09	0.09
Salt Wt, g		0.022	0.021	0.023	0.024	0.024	0.026	0.027	0.024	0.042	0.028	0.027
Particulates Wt, g		0.038	0.069	0.057	0.086	0.066	0.074	0.043	0.036	0.108	0.062	0.063
Particulates Conc. (g/L)		1.0	1.7	1.4	1.9	1.5	1.5	0.9	0.8	1.4	1.2	1.3

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Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	188	39	2	112								
Dry Particulates + Filter Paper Wt, g	0.1117	0.1168	0.1249	0.1428								
Filter Paper Wt, g	0.0884	0.0851	0.0859	0.0868								
Dry Particulates Wt, g	0.0233	0.0317	0.0390	0.0560								
Volume (mL)	129	140	132	135								
Particulates TSS Conc. (mg/L)	180.620	226.429	295.455	414.815								
Turbidity (NTU)	190	200	250	350								

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	104A	117	120	4	157	99	176	179				
Dry Particulates + Filter Paper Wt, g	0.0900	0.0999	0.0967	0.1039	0.1124	0.1153	0.1179	0.1253				
Filter Paper Wt, g	0.0785	0.0850	0.0785	0.0839	0.0873	0.0869	0.0842	0.0774				
Dry Particulates Wt, g	0.0115	0.0149	0.0182	0.0200	0.0251	0.0284	0.0337	0.0479				
Volume (mL)	139	138	136	141	145	146	143	142				
Particulates TSS Conc. (mg/L)	82.734	107.971	133.824	141.844	173.103	194.521	235.664	337.324				
Turbidity (NTU)	80	100	110	110	120	130	150	260				

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	56	98	103	184	70	62	34	91	102A	33		
Dry Particulates + Filter Paper Wt, g	0.0906	0.0889	0.0949	0.0967	0.0972	0.0949	0.0942	0.0912	0.0982	0.1070		
Filter Paper Wt, g	0.0841	0.0811	0.0857	0.0873	0.0869	0.0841	0.0809	0.0780	0.0791	0.0866		
Dry Particulates Wt, g	0.0065	0.0078	0.0092	0.0094	0.0103	0.0108	0.0133	0.0132	0.0191	0.0204		
Volume (mL)	145	136	135	134	130	133	140	139	138	143		
Particulates TSS Conc. (mg/L)	44.828	57.353	68.148	70.149	79.231	81.203	95.000	94.964	138.406	142.727		
Turbidity (NTU)	39	45	55	55	65	75	75	75	95	100		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	64	83	173	175	79	195	170	190	187	99A	105	
Dry Particulates + Filter Paper Wt, g	0.0921	0.0893	0.0908	0.0925	0.0853	0.0927	0.0941	0.0858	0.0907	0.0868	0.0925	
Filter Paper Wt, g	0.0879	0.0850	0.0842	0.0861	0.0783	0.0867	0.0858	0.0785	0.0811	0.0776	0.0854	
Dry Particulates Wt, g	0.0042	0.0043	0.0066	0.0064	0.0070	0.0060	0.0083	0.0073	0.0096	0.0092	0.0071	
Volume (mL)	112	113	128	129	124	122	139	139	145	146	134	
Particulates TSS Conc. (mg/L)	37.500	38.053	51.563	49.612	56.452	49.180	59.712	52.518	66.207	63.014	52.985	
Turbidity (NTU)	32	31	45	40	50	45	45	50	60	45	65	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	95	63	80	116	88	75	92	191	111	57	183	52
Dry Particulates + Filter Paper Wt, g	0.0821	0.0900	0.0890	0.0840	0.0938	0.0832	0.0888	0.0922	0.0915	0.0925	0.0885	0.0863
Filter Paper Wt, g	0.0786	0.0864	0.0841	0.0786	0.0879	0.0773	0.0842	0.0867	0.0846	0.0857	0.0820	0.0788
Dry Particulates Wt, g	0.0035	0.0036	0.0049	0.0054	0.0059	0.0059	0.0046	0.0055	0.0069	0.0068	0.0065	0.0075
Volume (mL)	136	134	136	133	139	136	139	139	149	142	140	140
Particulates TSS Conc. (mg/L)	25.735	26.866	36.029	40.602	42.446	43.382	33.094	39.568	46.309	47.887	46.429	53.571
Turbidity (NTU)	8.8	9.6	11	13	14	14	14	14	17	16	16	18

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	99A	100	100A	101	101A	102	102A	103	103A	104A	105	105A
Dry Particulates + Filter Paper Wt, g	0.0816	0.0866	0.0882	0.0850	0.0862	0.0883	0.0867	0.0881	0.0870	0.0886	0.0862	0.0882
Filter Paper Wt, g	0.0804	0.0854	0.0868	0.0831	0.0846	0.0871	0.0849	0.0865	0.0851	0.0874	0.0843	0.0857
Dry Particulates Wt, g	0.0012	0.0012	0.0014	0.0019	0.0016	0.0012	0.0018	0.0016	0.0019	0.0012	0.0019	0.0025
Volume (mL)	135	112	117	119	121	120	106	118	128	126	149	134
Particulates TSS Conc. (mg/L)	8.889	10.714	11.966	15.966	13.223	10.000	16.981	13.559	14.844	9.524	12.752	18.657
Turbidity (NTU)	8.0	6.9	7.0	7.6	7.4	7.5	8.0	9.7	9.4	9.4	8.8	10

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	190	103	80	17	81	102	104A	189	5	103A	101
Dry Particulates + Filter Paper Wt, g		0.0840	0.0850	0.0797	0.0803	0.0883	0.0801	0.0825	0.0813	0.0867	0.0883	0.0821
Filter Paper Wt, g		0.0829	0.0818	0.0777	0.0774	0.0869	0.0786	0.0810	0.0806	0.0853	0.0865	0.0811
Dry Particulates Wt, g		0.0011	0.0032	0.0020	0.0029	0.0014	0.0015	0.0015	0.0007	0.0014	0.0018	0.0010
Volume (mL)		118	115	119	106	119	108	116	117	116	126	121
Particulates TSS Conc. (mg/L)		9.322	27.826	16.807	27.358	11.765	13.889	12.931	5.983	12.069	14.286	8.264
Turbidity (NTU)		6.2	13	13	13	13	12	13	13	13	13	12

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	122	66	187	185	102A	7	162	117	191	114	190
Dry Particulates + Filter Paper Wt, g		0.0789	0.0851	0.0815	0.0844	0.0792	0.0862	0.0871	0.0865	0.0792	0.0785	0.0824
Filter Paper Wt, g		0.0780	0.0841	0.0802	0.0832	0.0780	0.0849	0.0861	0.0851	0.0776	0.0773	0.0814
Dry Particulates Wt, g		0.0009	0.001	0.0013	0.0012	0.0012	0.0013	0.001	0.0014	0.0016	0.0012	0.001
Volume (mL)		135	138	135	130	130	135	130	130	138	135	145
Particulates TSS Conc. (mg/L)		6.667	7.246	9.630	9.231	9.231	9.630	7.692	10.769	11.594	8.889	6.897
Turbidity (NTU)		5.4	5.5	5.6	5.8	5.6	5.5	5.4	5.4	5.5	5.4	5.3

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40062	CST Test #:	10
Test Start Date:	3/20/2007	Tested By:	md
Test Start Time:	9:10	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	151	198	195	177	182	152	115	199	207	153	180
Dry Particulates + Filter Paper Wt, g		0.0878	0.0788	0.0789	0.0812	0.0897	0.089	0.0793	0.0876	0.083	0.0867	0.086
Filter Paper Wt, g		0.0861	0.0774	0.0774	0.0795	0.0879	0.0868	0.0776	0.0856	0.0809	0.0846	0.0839
Dry Particulates Wt, g		0.0017	0.0014	0.0015	0.0017	0.0018	0.0022	0.0017	0.002	0.0021	0.0021	0.0021
Volume (mL)		134	130	133	137	140	132	130	131	135	137	145
Particulates TSS Conc. (mg/L)		12.687	10.769	11.278	12.409	12.857	16.667	13.077	15.267	15.556	15.328	14.483
Turbidity (NTU)		6.6	5.4	4.9	4.9	4.8	5.1	4.9	4.6	4.9	4.8	6.2

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-40062		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50275		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-40062	---	Moist, gray silt	61.6

Notes: Temperature of Drying : 110° Celsius

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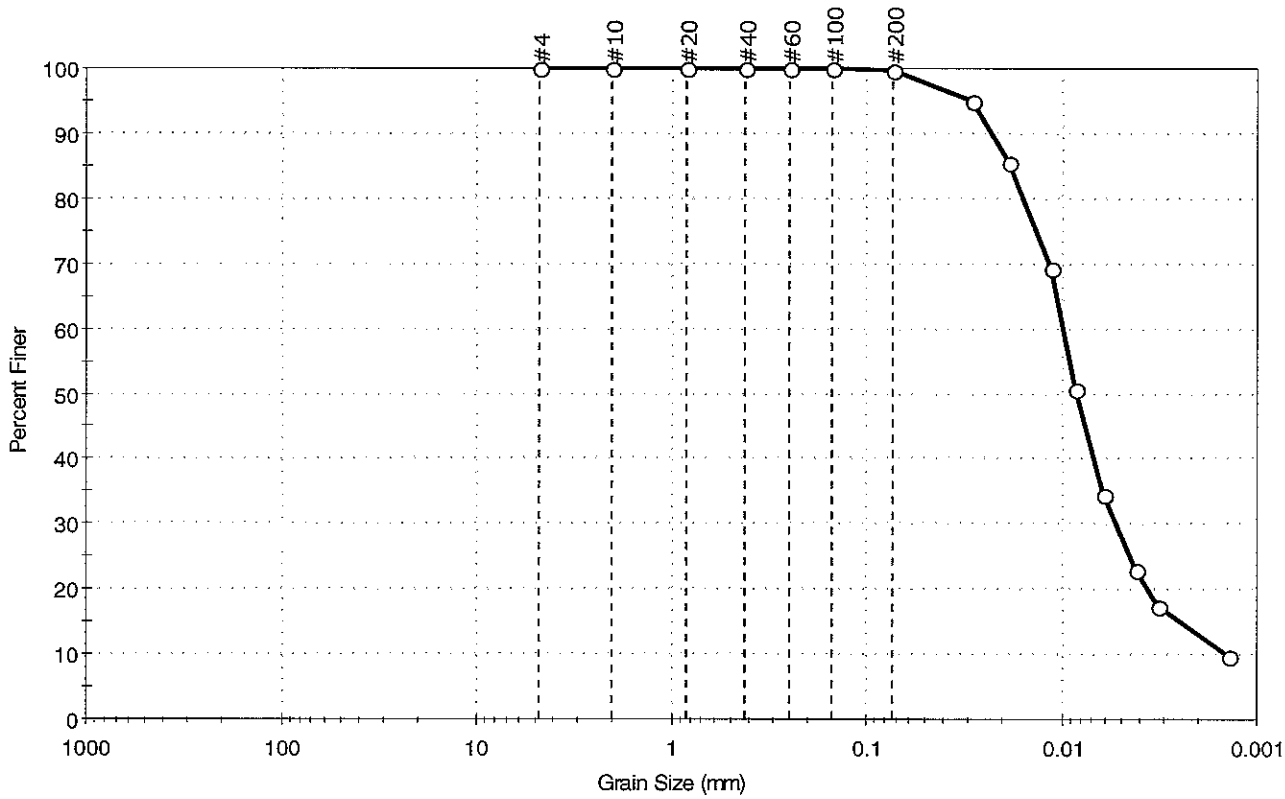
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-40062	Test Date: 04/10/07	Checked By:	jdt
Depth : ---	Test Id: 109699		
Test Comment: ---			
Sample Description: Moist, gray silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	0.4	99.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.074	100		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0290	95		
---	0.0188	86		
---	0.0114	69		
---	0.0085	51		
---	0.0061	35		
---	0.0042	23		
---	0.0033	17		
---	0.0014	10		

Coefficients

D_{85} = 0.0184 mm	D_{30} = 0.0053 mm
D_{60} = 0.0098 mm	D_{15} = 0.0025 mm
D_{50} = 0.0084 mm	D_{10} = 0.0014 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (18))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

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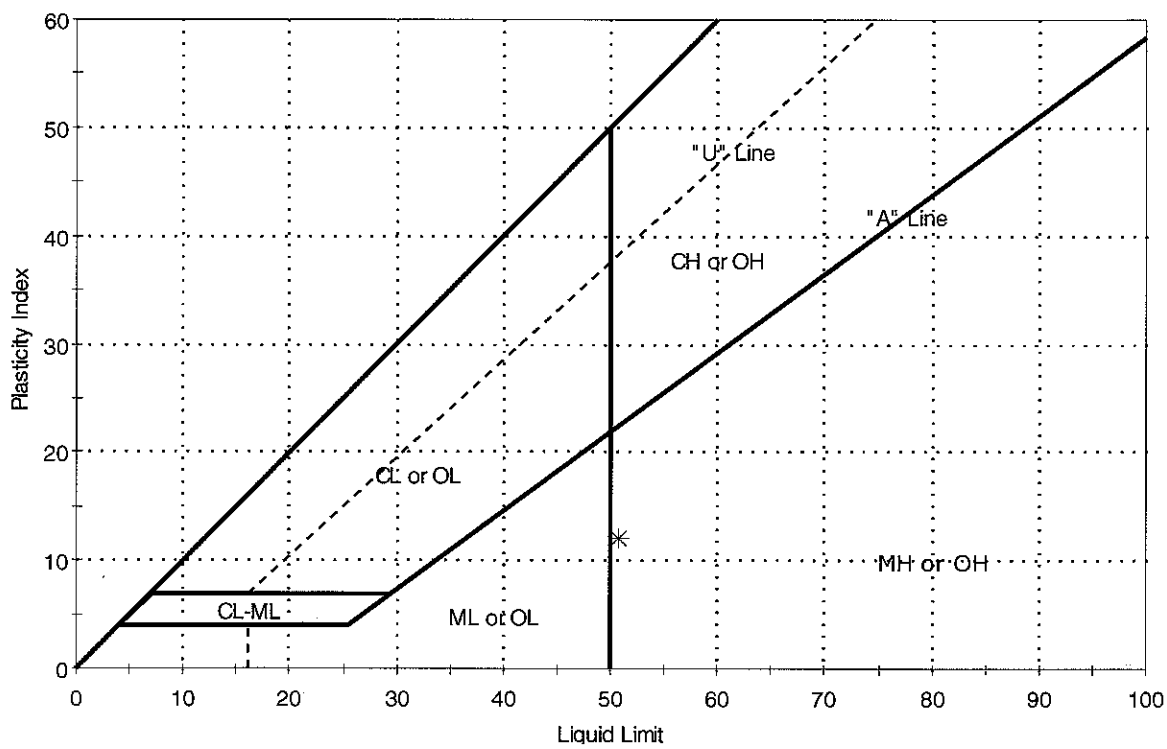
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-40062		Test Date:	04/11/07	Checked By:	jdt
Depth : ---		Test Id:	109716		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-40062	---	---	62	51	39	12	2	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-40062	Test Date:	04/12/07	Checked By:	jdt
Depth :	---	Test Id:	109750		
Test Comment:	---				
Sample Description:	Moist, gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-40062	---	Moist, gray silt	2.56

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/02/07
Tested by:	md
Checked by:	jdt

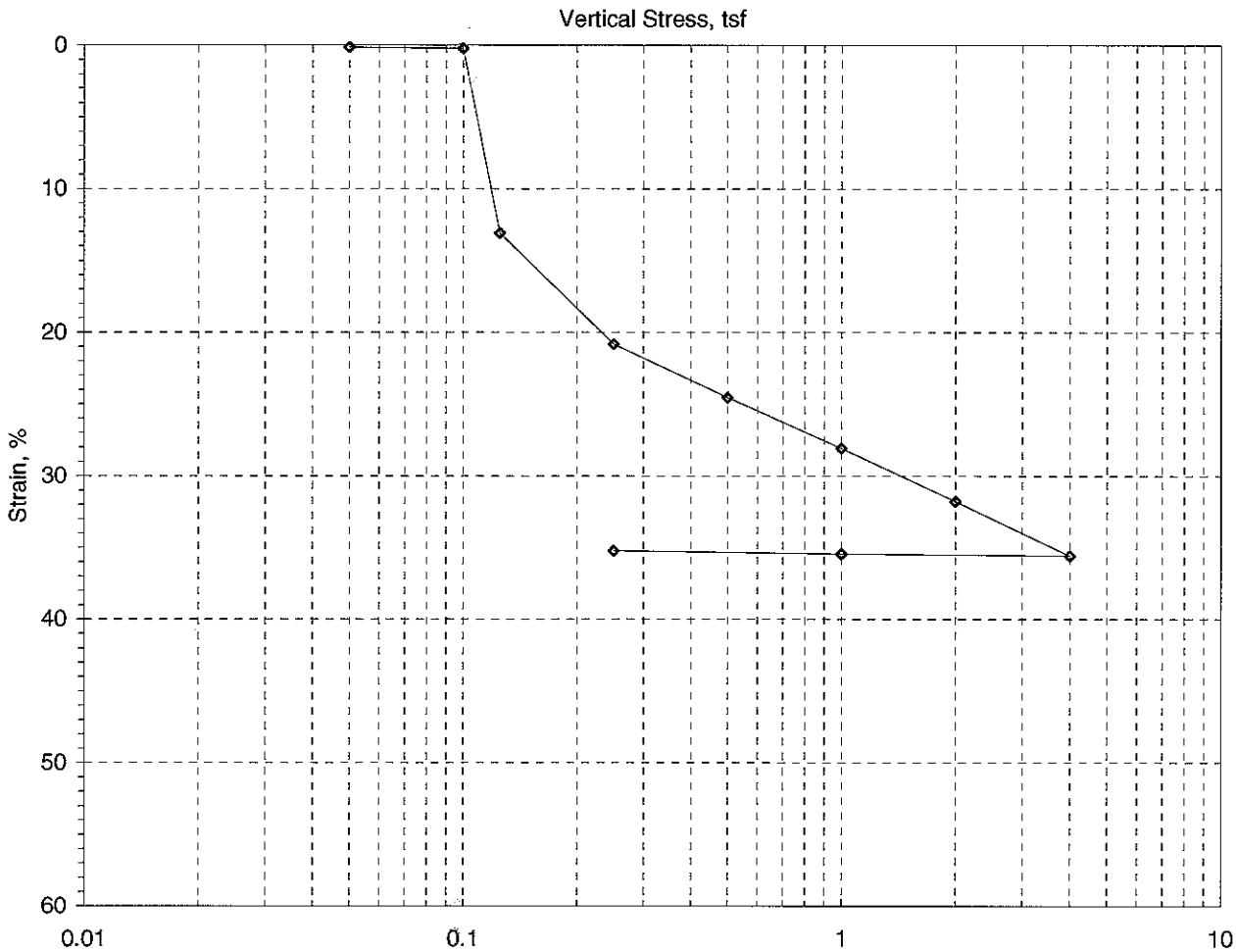
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-40062	Moist, gray silt	0.20	0.25	0.25	0.23	0.23

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	187	59
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	41.1	46.3
Compression Index:	---			Saturation, %	99.3	100.0
Diameter:	11.0 in	Initial Height: 9.35 in		Void Ratio	2.88	1.52
LL: 51	PL: 39	PI: 12	GS: 2.56			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40062
Test No.:CST 10 (LC-9)

Location: Syracuse, NY
Tested By: md
Test Date: 04/04/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System P

Measured Specific Gravity: 2.56
Initial Void Ratio: 2.88
Final Void Ratio: 1.52

Liquid Limit: 51
Plastic Limit: 39
Plasticity Index: 12

Initial Height: 9.35 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		1898	RING		unknown
Wt. Container + Wet Soil,	gm	207.77	36774	31720	271.83
Wt. Container + Dry Soil,	gm	143.69	26132	26032	173.67
Wt. Container, gm		109.39	16440	16440	8.14
Wt. Dry Soil, gm		34.3	9591.6	9591.6	165.53
Water Content, %		186.8	112.0	59.31	59.3
Void Ratio		---	2.89	1.52	---
Degree of Saturation, %		---	99.3	100	---
Dry Unit Weight, pcf		---	41.1	46.29	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40062
Test No.: CST 10 (LC-9)

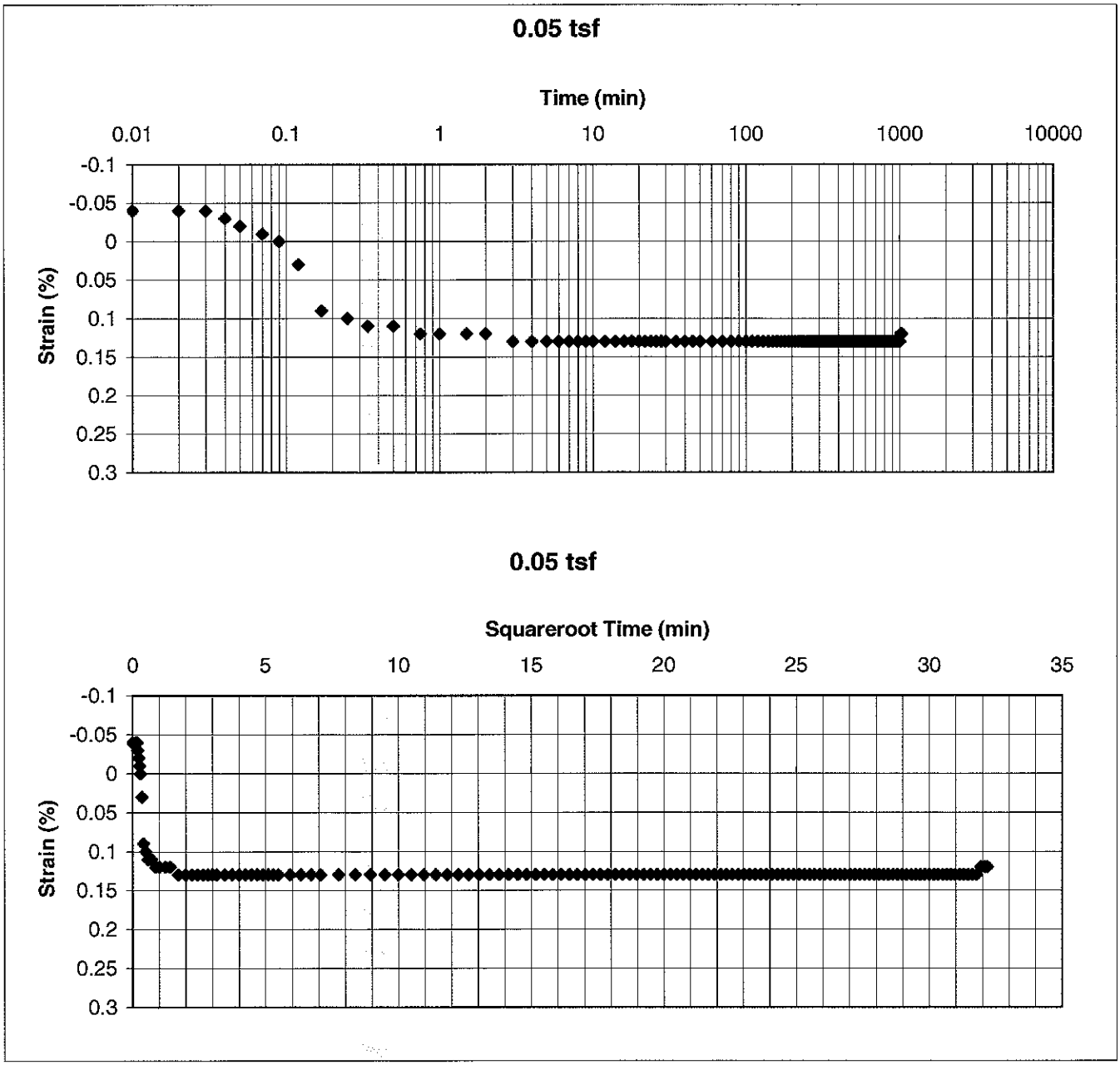
Location: Syracuse, NY
Tested By: md
Test Date: 04/04/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, gray silt
Remarks: System P

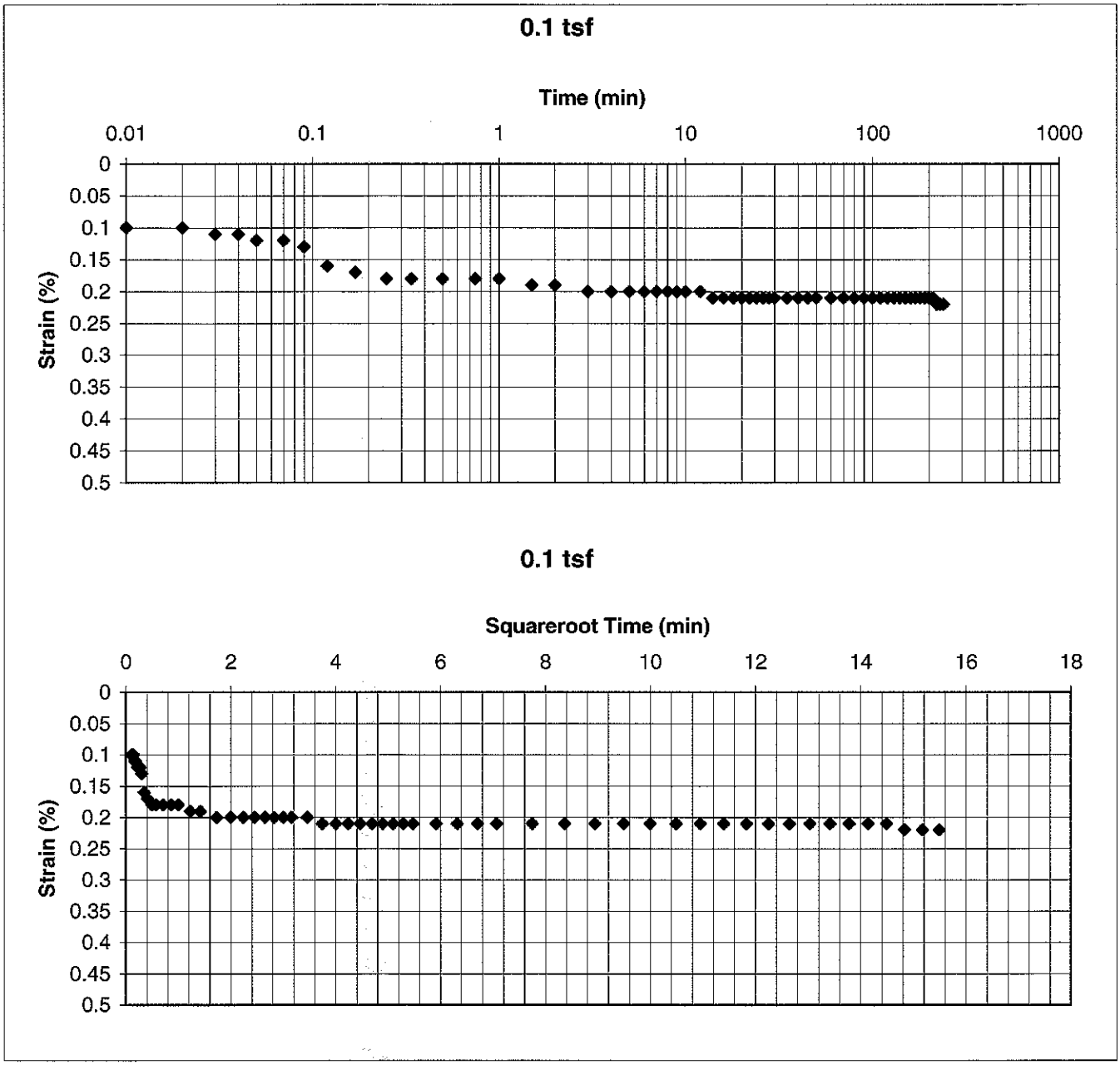
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0.01164	2.881	0.124	0.2	0	1.82E+00	0.00E+00	1.82E+00
2	0.1	0.02018	2.878	0.216	0.1	1.00E-01	2.50E+00	2.52E+00	2.51E+00
3	0.125	1.223	2.378	13.080	28.1	0.00E+00	8.89E-03	0.00E+00	8.89E-03
4	0.25	1.9476	2.0781	20.830	18.1	0	1.56E-02	0.00E+00	1.56E-02
5	0.5	2.2945	1.9339	24.540	16.8	14.2	1.60E-02	1.89E-02	1.73E-02
6	1	2.6255	1.7962	28.080	5	4.2	5.02E-02	5.99E-02	5.46E-02
7	2	2.9711	1.6525	31.776	2.2	3	1.05E-01	7.63E-02	8.83E-02
8	4	3.3271	1.5045	35.584	2.1	3.1	1.02E-01	6.83E-02	8.17E-02
9	1	3.3141	1.5099	35.445	0	0	4.47E+00	4.95E+00	4.70E+00
10	0.25	3.2941	1.5182	35.231	0.3	0.1	6.59E-01	3.37E+00	1.10E+00

CONSOLIDATION TEST DATA
TIME CURVES



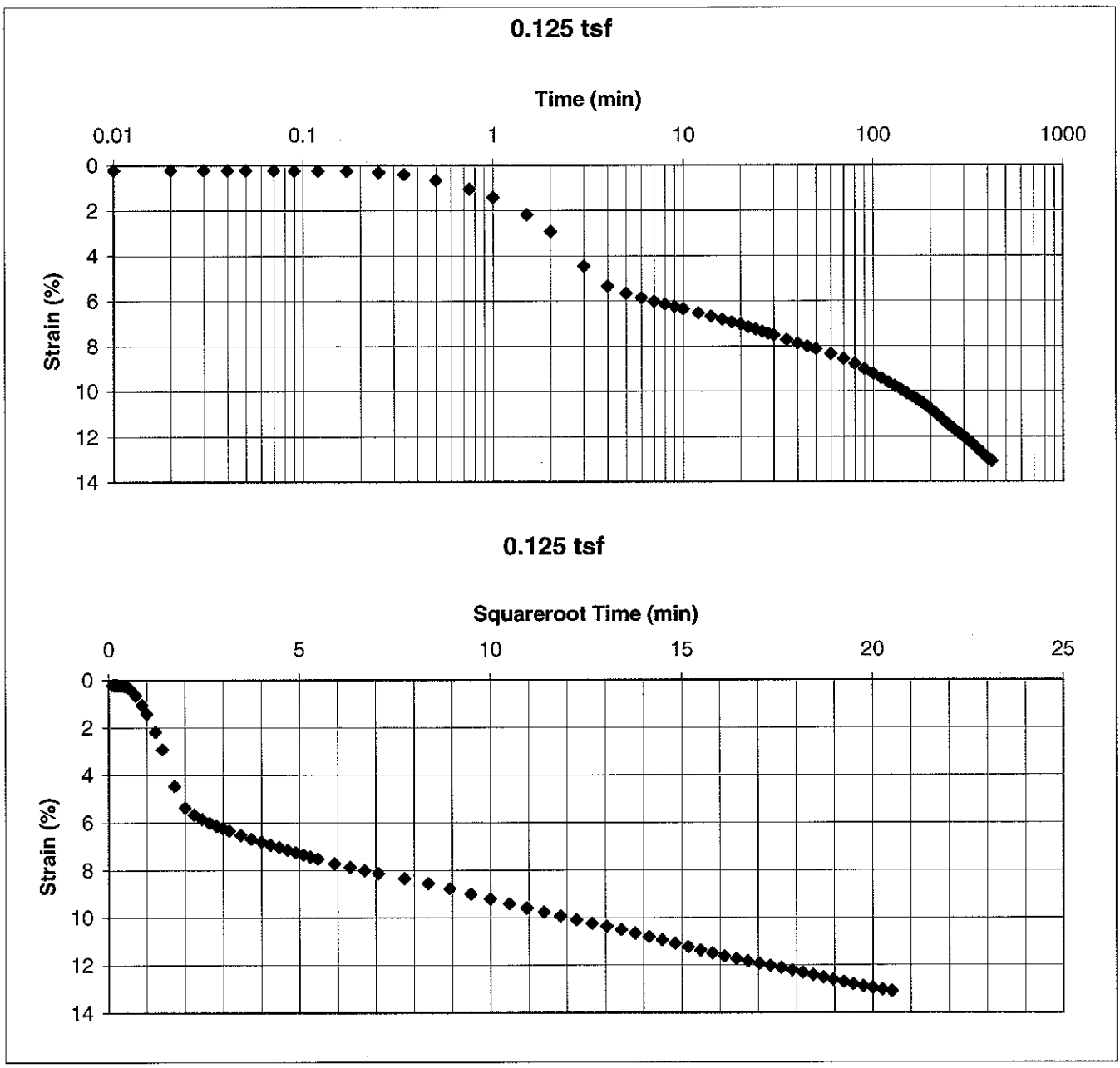
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



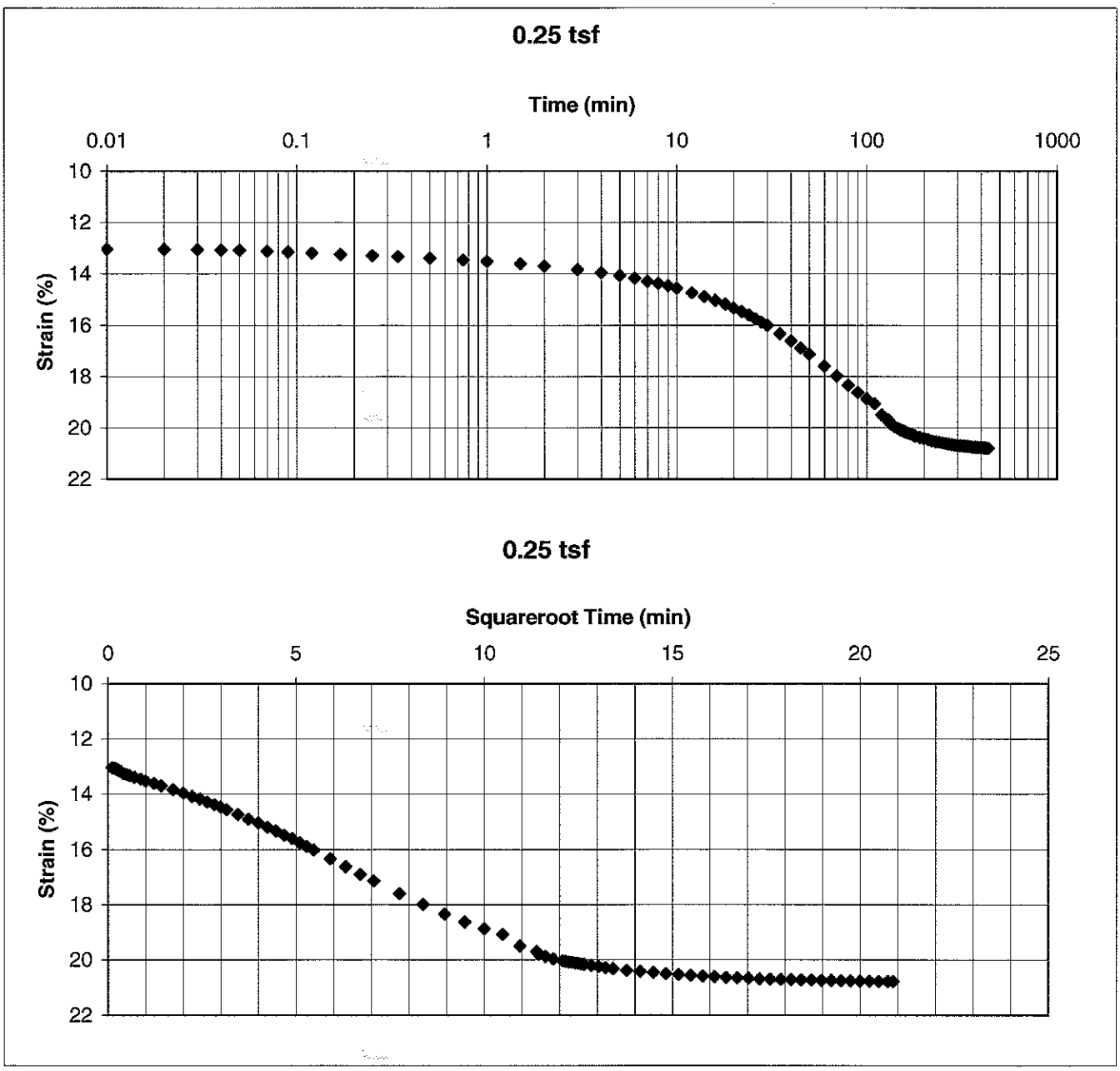
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



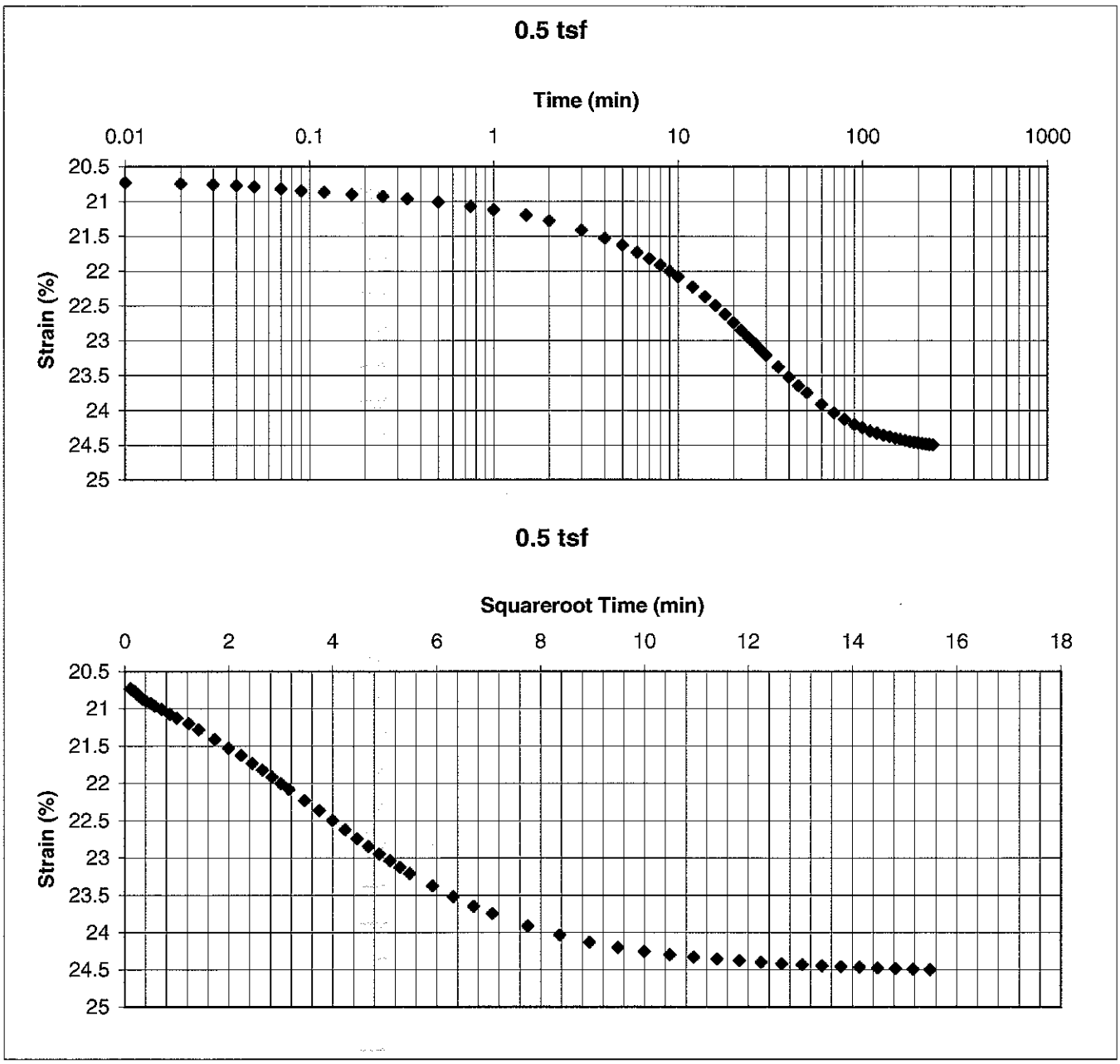
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST-10 (LC9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



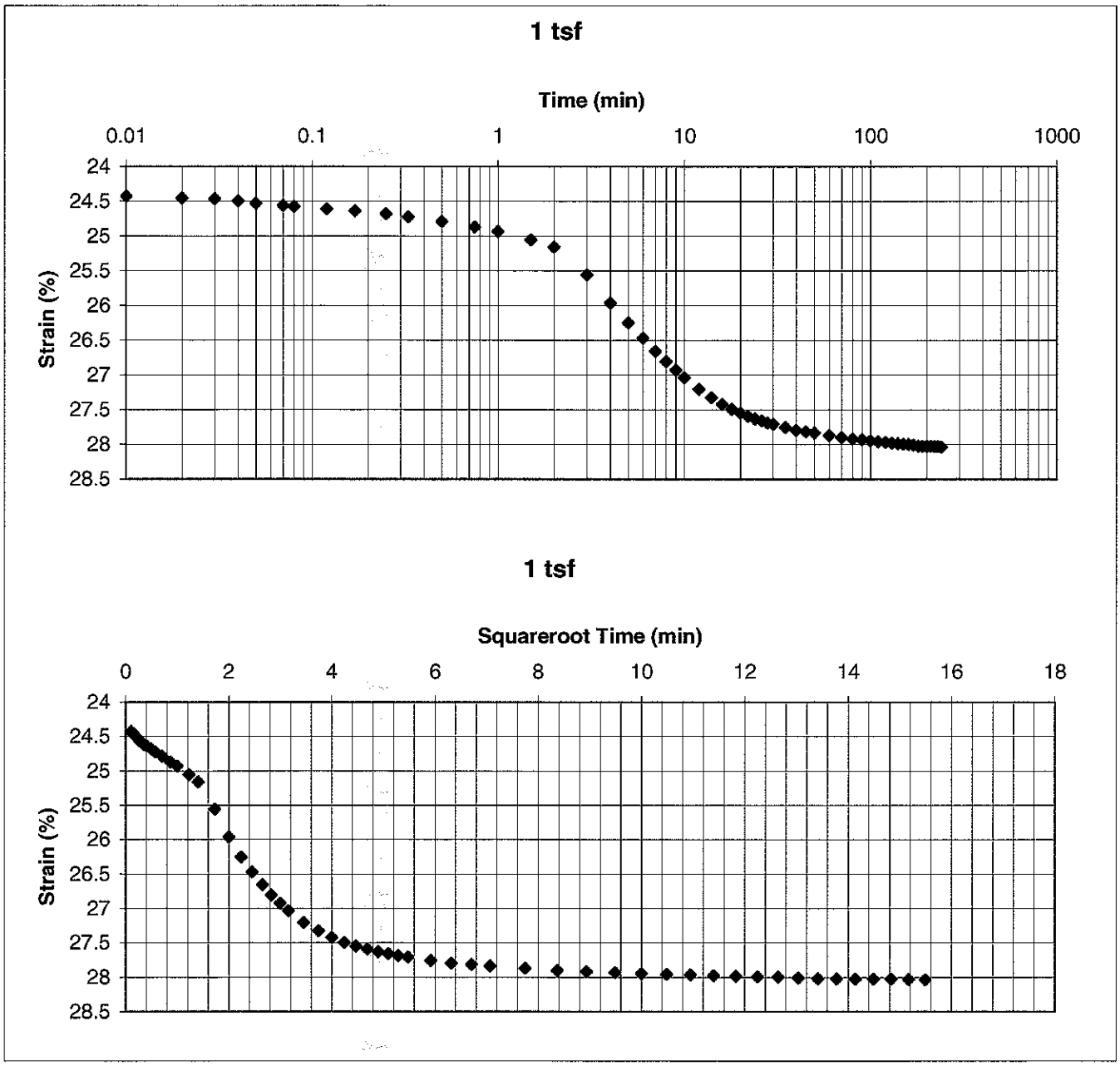
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



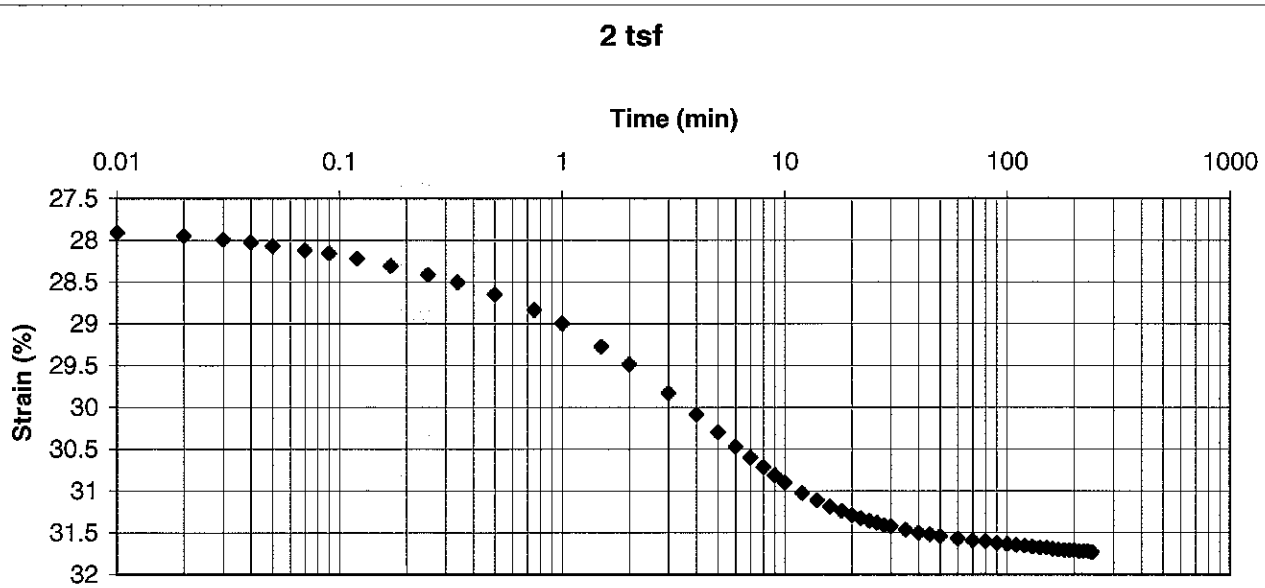
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

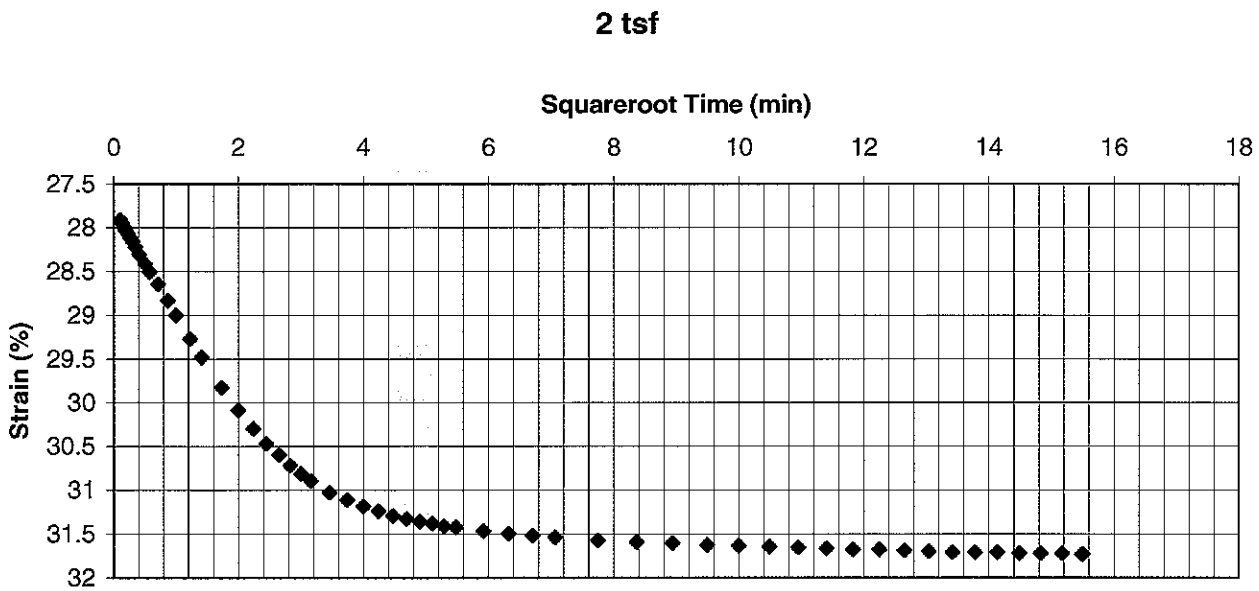
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.:	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





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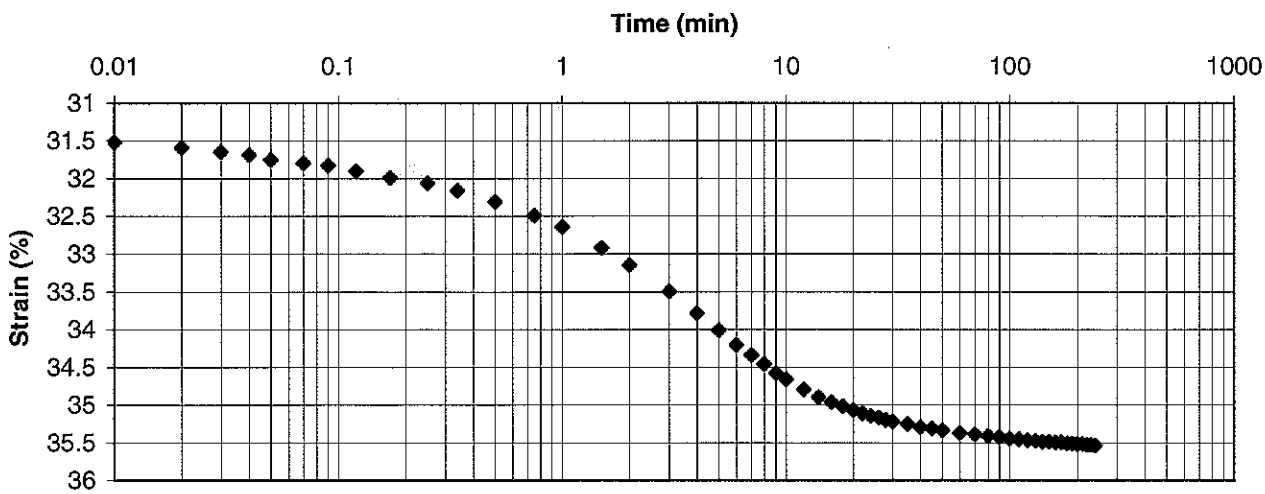
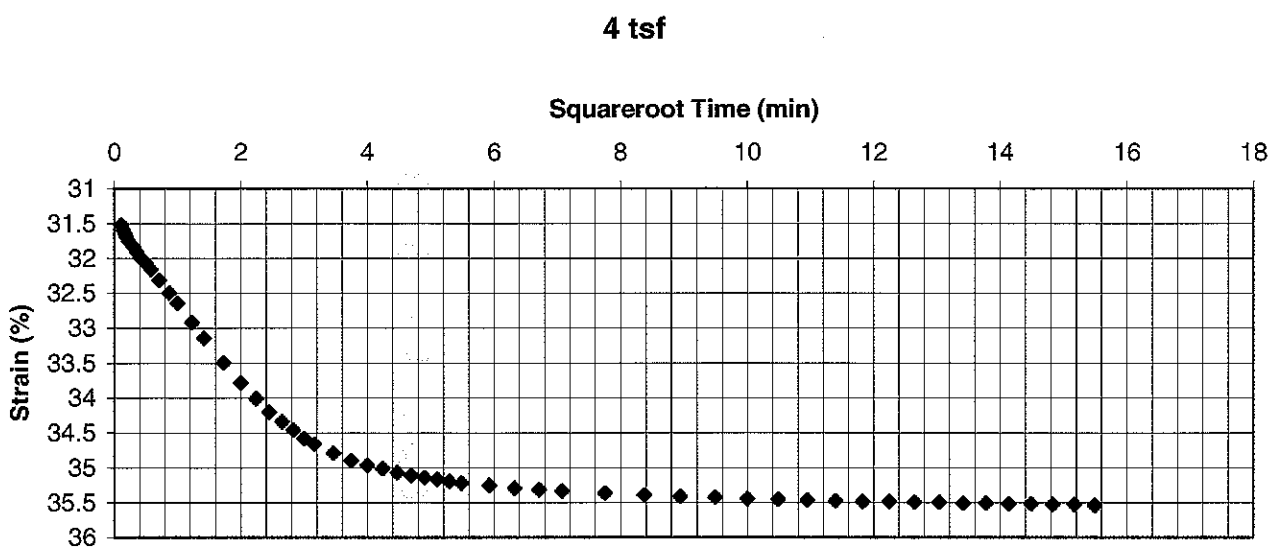
Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	40062	Test Date:	4/4/2007	Depth:	---
Test No.:	CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, gray silt					
Remarks:					

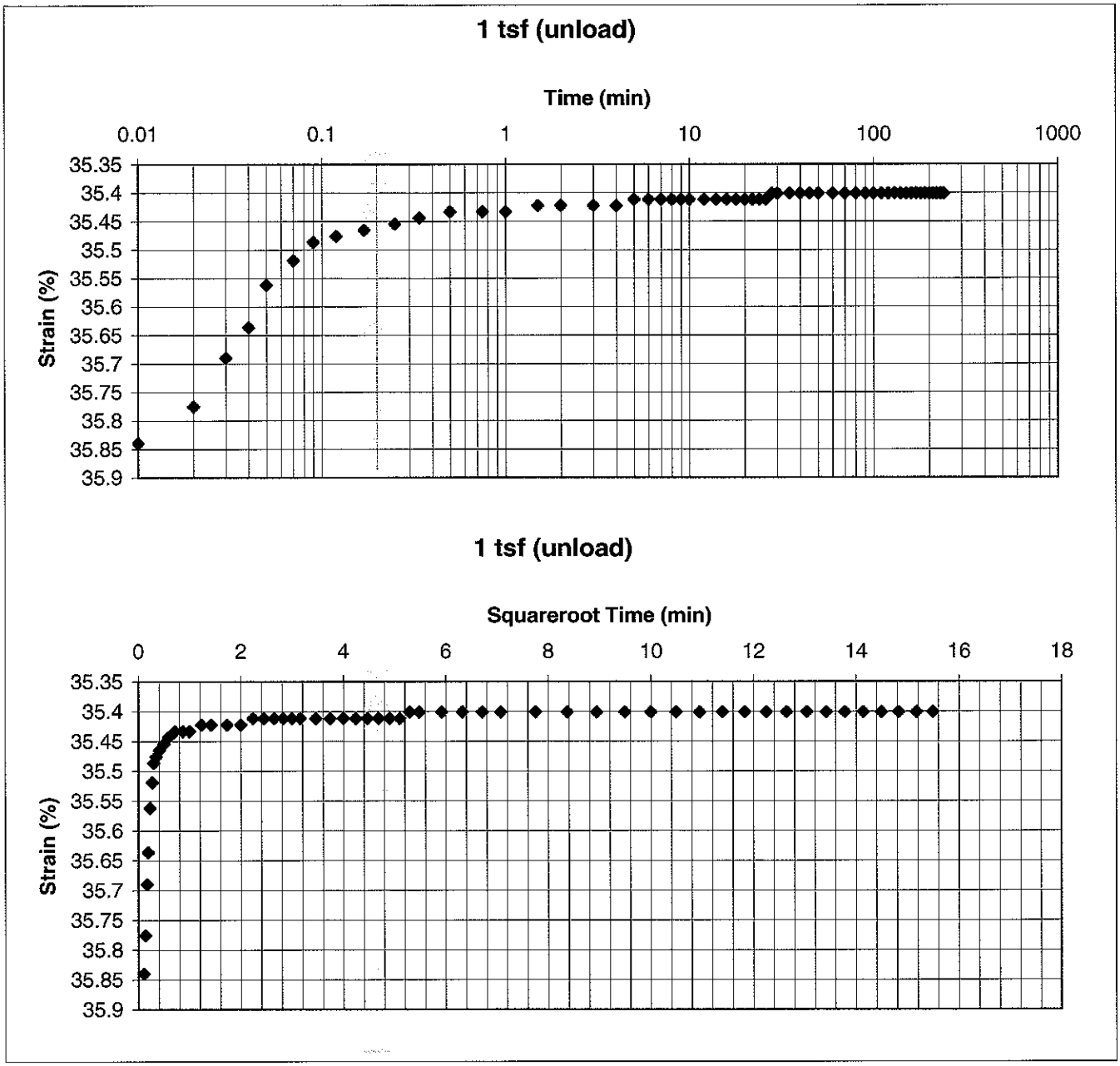
CONSOLIDATION TEST DATA
TIME CURVES





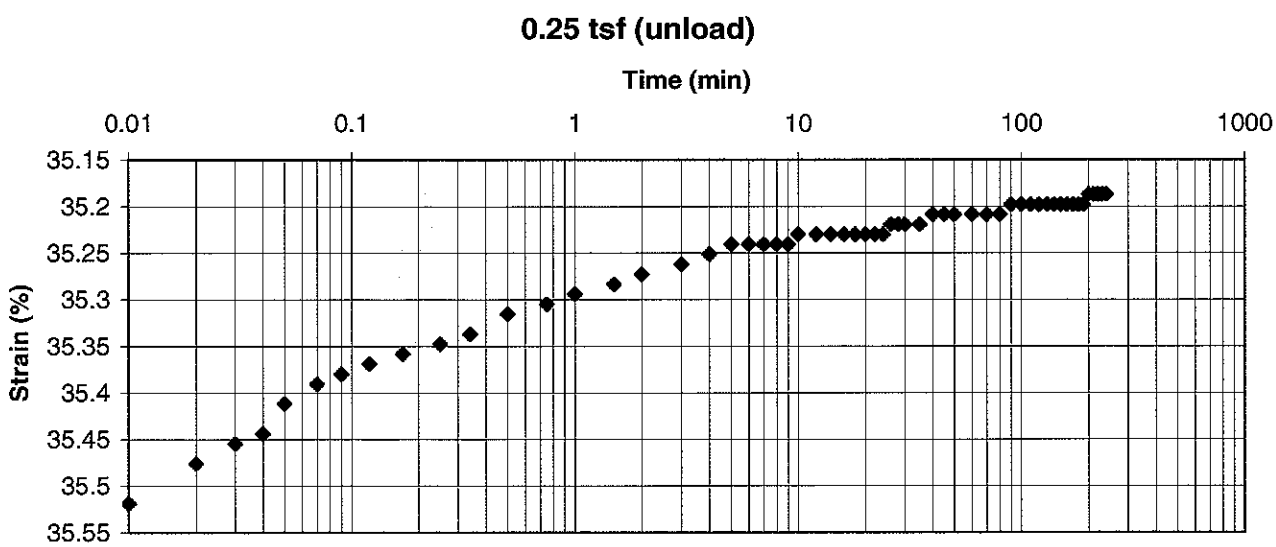
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

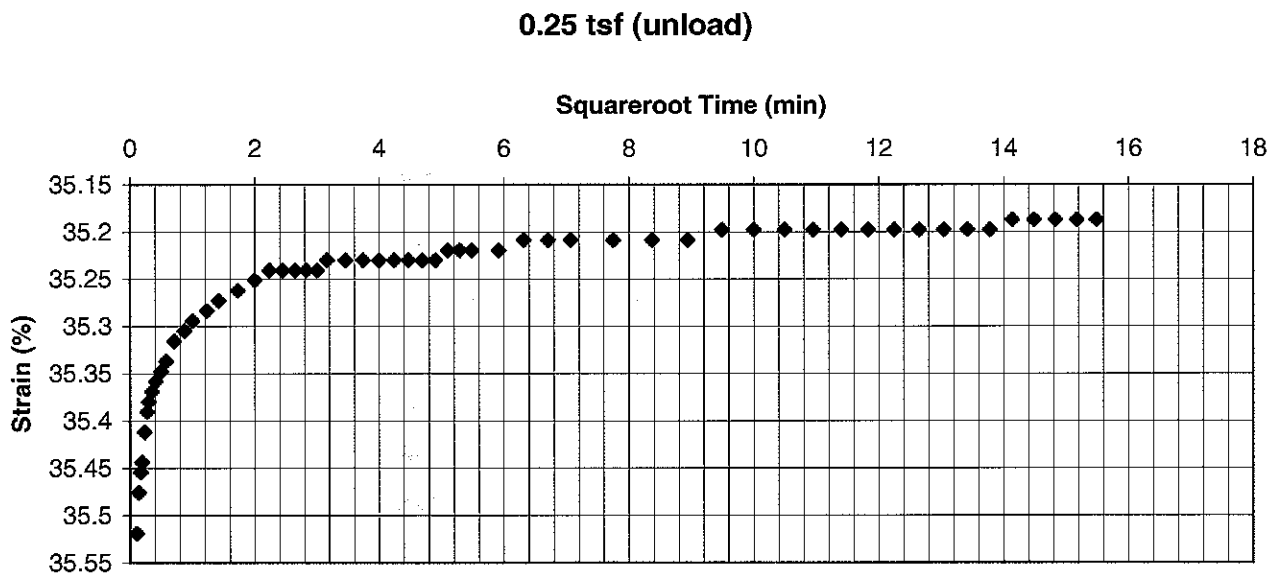
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40062	Test Date:	4/4/2007	Depth:	---
	Test No.: CST 10 (LC-9)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, gray silt				
	Remarks:				

GeoTesting express
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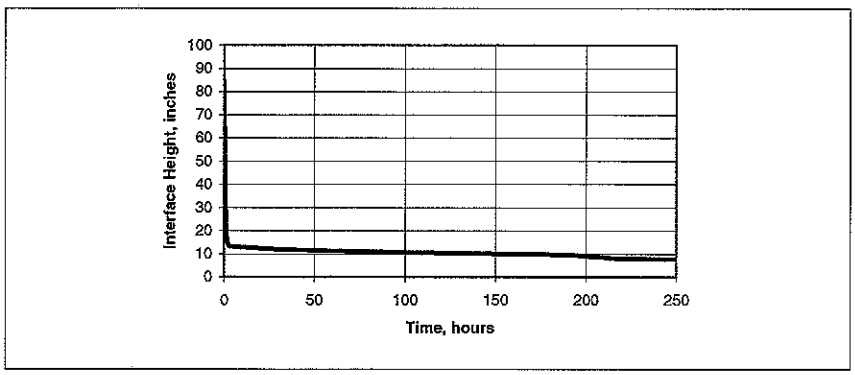
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:	10:04	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/15/07	10:04 AM	0	0.00	84.6	84.6		
	10:05 AM	1	0.02		83.5		
	10:09 AM	5	0.08		78.0		
	10:11 AM	7	0.12		75.3		
	10:15 AM	11	0.18		69.5		
	10:21 AM	17	0.28		61.1		
	10:25 AM	21	0.35		55.25		
	10:30 AM	26	0.43		48.0		
	10:35 AM	31	0.52		40.9		
	10:42 AM	38	0.63		35.5		
	10:50 AM	46	0.77		31.5		
	10:55 AM	51	0.85		29.1		
	11:00 AM	56	0.93		26.8		
	11:04 AM	60	1.00		25.1		
	11:12 AM	68	1.13	83.4	22.2		
	11:20 AM	76	1.27		19.9		
	11:30 AM	86	1.43		17.75		
	11:55 AM	111	1.85		15.2		
	12:04 PM	120	2.00		14.75		
	12:12 PM	128	2.13	82.0	14.4		
	12:30 PM	146	2.43		14.0		
	1:02 PM	178	2.97		13.3		
	4:04 PM	690	11.50	79.1	12.8		
03/16/07	10:15 AM	1451	24.18	77.6	12.2		
03/17/07	10:15 AM	2891	48.18	76.2	11.5		
03/19/07	10:15 AM	5771	96.18	74.7	10.6		
03/23/07	10:15 AM	11531	192.18	73.25	9.5		
03/24/07	10:15 AM	12971	216.18	72.2	8		
03/30/07	10:15 AM	21611	360.18	70.7	6.45		



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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	42	110	154									
Wet Sample + Tare Wt, g	144.34	149.77	150.48									
Dried Sample + Tare Wt, g	76.92	76.46	77.38									
Tare Wt, g	67.33	66.19	67.24									
Water Wt, g	67.42	73.31	73.1									
Dried Sample Wt, g	9.59	10.27	10.14									
Salt Wt, g	0.038	0.041	0.041									
Particulates Wt, g	9.552	10.229	10.099									
Particulates Conc. (g/L)	134.1	132.2	130.9									

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into colu Unable to collect any samples

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	189	19	194	20	12	17	27	13	14	195		
Wet Sample + Tare Wt, g	111.45	111.24	112.50	109.37	112.62	113.73	113.28	108.83	120.38	117.34		
Dried Sample + Tare Wt, g	67.73	67.33	68.70	68.28	66.83	67.40	66.36	66.15	67.17	68.67		
Tare Wt, g	67.19	66.79	68.13	67.74	66.23	66.80	65.75	65.58	66.48	68.04		
Water Wt, g	43.72	43.91	43.80	41.09	45.79	46.33	46.92	42.68	53.21	48.67		
Dried Sample Wt, g	0.54	0.54	0.57	0.54	0.6	0.6	0.61	0.57	0.69	0.63		
Salt Wt, g	0.024	0.025	0.025	0.023	0.026	0.026	0.026	0.024	0.030	0.027		
Particulates Wt, g	0.516	0.515	0.545	0.517	0.574	0.574	0.584	0.546	0.660	0.603		
Particulates Conc. (g/L)	11.7	11.7	12.4	12.5	12.5	12.3	12.4	12.7	12.3	12.3		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	164	165	167	168	169	170	171	172	173	174	175	
Wet Sample + Tare Wt, g	109.72	107.05	106.55	108.81	108.30	117.20	106.93	109.10	115.35	118.36	120.70	
Dried Sample + Tare Wt, g	67.62	68.50	67.24	68.44	67.48	68.71	67.19	67.32	69.05	67.68	68.01	
Tare Wt, g	67.08	68.03	66.72	67.96	66.95	68.08	66.68	66.77	68.45	67.02	67.34	
Water Wt, g	42.10	38.55	39.31	40.37	40.82	48.49	39.74	41.78	46.30	50.68	52.69	
Dried Sample Wt, g	0.54	0.47	0.52	0.48	0.53	0.63	0.51	0.55	0.60	0.66	0.67	
Salt Wt, g	0.024	0.022	0.022	0.023	0.023	0.027	0.022	0.023	0.026	0.028	0.030	
Particulates Wt, g	0.516	0.448	0.498	0.457	0.507	0.603	0.488	0.527	0.574	0.632	0.640	
Particulates Conc. (g/L)	12.2	11.6	12.6	11.3	12.4	12.4	12.2	12.5	12.3	12.4	12.1	

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	192	33	91	56	40	34	11	122	31	98	70	177
Wet Sample + Tare Wt, g	106.32	104.60	109.44	114.32	113.42	114.38	116.93	113.25	111.26	117.29	109.48	109.90
Dried Sample + Tare Wt, g	67.81	67.99	68.05	67.90	67.05	66.94	66.41	67.84	67.88	68.02	68.30	67.44
Tare Wt, g	67.31	67.52	67.53	67.30	66.46	66.34	65.77	67.25	67.31	67.40	67.74	66.89
Water Wt, g	38.51	36.61	41.39	46.42	46.37	47.44	50.52	45.41	43.38	49.27	41.18	42.46
Dried Sample Wt, g	0.50	0.47	0.52	0.60	0.59	0.60	0.64	0.59	0.57	0.62	0.56	0.55
Salt Wt, g	0.022	0.021	0.023	0.026	0.026	0.027	0.028	0.025	0.024	0.028	0.023	0.024
Particulates Wt, g	0.478	0.449	0.497	0.574	0.564	0.573	0.612	0.565	0.546	0.592	0.537	0.526
Particulates Conc. (g/L)	12.4	12.2	11.9	12.3	12.1	12.0	12.0	12.4	12.5	12.0	13.0	12.3

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	49	102A	96	48	43	51	36	182	100A	18	99A	26
Wet Sample + Tare Wt, g	104.69	109.69	110.24	110.13	110.50	113.91	110.28	114.96	112.01	115.01	112.75	114.98
Dried Sample + Tare Wt, g	67.96	68.38	68.67	68.51	68.07	67.95	66.48	67.93	68.04	68.06	67.63	67.62
Tare Wt, g	67.49	67.83	68.14	67.98	67.55	67.37	65.93	67.36	67.48	67.45	67.06	67.01
Water Wt, g	36.73	41.31	41.57	41.62	42.43	45.96	43.80	47.03	43.97	46.95	45.12	47.36
Dried Sample Wt, g	0.47	0.55	0.53	0.53	0.52	0.58	0.55	0.57	0.56	0.61	0.57	0.61
Salt Wt, g	0.021	0.023	0.023	0.023	0.024	0.026	0.025	0.026	0.025	0.026	0.025	0.027
Particulates Wt, g	0.449	0.527	0.507	0.507	0.496	0.554	0.525	0.544	0.535	0.584	0.545	0.583
Particulates Conc. (g/L)	12.2	12.7	12.1	12.1	11.6	12.0	11.9	11.5	12.1	12.4	12.0	12.3

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	152	22	98A	45	208	101	23	44	114	102	53
Wet Sample + Tare Wt, g		111.54	110.05	112.90	115.22	115.68	110.06	111.16	113.93	120.29	117.71	123.71
Dried Sample + Tare Wt, g		68.50	66.76	67.92	68.39	67.63	68.59	68.88	66.47	68.82	68.74	68.41
Tare Wt, g		67.96	66.22	67.36	67.80	67.05	68.06	68.34	65.88	68.17	68.12	67.74
Water Wt, g		43.04	43.29	44.98	46.83	48.05	41.47	42.28	47.46	51.47	48.97	55.3
Dried Sample Wt, g		0.54	0.54	0.56	0.59	0.58	0.53	0.54	0.59	0.65	0.62	0.67
Salt Wt, g		0.024	0.024	0.025	0.026	0.027	0.023	0.024	0.027	0.029	0.027	0.031
Particulates Wt, g		0.516	0.516	0.535	0.564	0.553	0.507	0.516	0.563	0.621	0.593	0.639
Particulates Conc. (g/L)		11.9	11.9	11.8	12.0	11.5	12.2	12.2	11.8	12.0	12.0	11.5

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	6	15	153	16	206	204	202	9	71	68	5
Wet Sample + Tare Wt, g		112.22	107.00	114.59	113.22	112.26	117.40	112.14	118.32	118.46	118.77	119.96
Dried Sample + Tare Wt, g		68.63	68.58	68.49	67.89	68.03	67.98	67.84	68.22	68.19	67.87	67.96
Tare Wt, g		68.12	68.13	67.96	67.36	67.51	67.39	67.33	67.61	67.60	67.27	67.34
Water Wt, g		43.59	38.42	46.10	45.33	44.23	49.42	44.30	50.10	50.27	50.90	52.00
Dried Sample Wt, g		0.51	0.45	0.53	0.53	0.52	0.59	0.51	0.61	0.59	0.60	0.62
Salt Wt, g		0.024	0.022	0.026	0.025	0.025	0.028	0.025	0.028	0.028	0.029	0.029
Particulates Wt, g		0.486	0.428	0.504	0.505	0.495	0.562	0.485	0.582	0.562	0.571	0.591
Particulates Conc. (g/L)		11.1	11.1	10.9	11.1	11.1	11.3	10.9	11.6	11.1	11.2	11.3

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	51	203	172	48	49	96	164	193	182	165	26
Wet Sample + Tare Wt, g		135.97	113.07	122.48	116.38	123.98	117.08	127.19	127.80	122.91	125.62	123.03
Dried Sample + Tare Wt, g		68.18	67.65	67.43	68.56	68.16	68.72	67.80	67.57	68.02	68.71	67.67
Tare Wt, g		67.38	67.11	66.79	67.99	67.49	68.14	67.08	66.86	67.38	68.04	67.03
Water Wt, g		67.79	45.42	55.05	47.82	55.82	48.36	59.39	60.23	54.89	56.91	55.36
Dried Sample Wt, g		0.80	0.54	0.64	0.57	0.67	0.58	0.72	0.71	0.64	0.67	0.64
Salt Wt, g		0.038	0.025	0.031	0.027	0.031	0.027	0.033	0.034	0.031	0.032	0.031
Particulates Wt, g		0.762	0.515	0.609	0.543	0.639	0.553	0.687	0.676	0.609	0.638	0.609
Particulates Conc. (g/L)		11.2	11.3	11.0	11.3	11.4	11.4	11.5	11.2	11.1	11.2	11.0

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	43	44	45	46	49	48	50	51	52	53	54
Wet Sample + Tare Wt, g		111.79	109.25	108.81	110.15	114.47	110.68	113.01	113.98	113.14	117.57	127.83
Dried Sample + Tare Wt, g		68.09	66.42	68.33	66.52	68.08	68.52	68.12	67.95	68.22	68.35	68.14
Tare Wt, g		67.55	65.88	67.80	65.97	67.48	67.98	67.54	67.36	67.65	67.73	67.40
Water Wt, g		43.70	42.83	40.48	43.63	46.39	42.16	44.89	46.03	44.92	49.22	59.69
Dried Sample Wt, g		0.54	0.54	0.53	0.55	0.60	0.54	0.58	0.59	0.57	0.62	0.74
Salt Wt, g		0.024	0.024	0.023	0.024	0.026	0.024	0.025	0.026	0.025	0.028	0.033
Particulates Wt, g		0.516	0.516	0.507	0.526	0.574	0.516	0.555	0.564	0.545	0.592	0.707
Particulates Conc. (g/L)		11.7	12.0	12.5	12.0	12.3	12.2	12.3	12.2	12.1	12.0	11.8

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	---	122	185	204	205	200	190	187	191	7	102A
Wet Sample + Tare Wt, g			110.06	107.74	115.45	115.32	112.4	117.23	122.95	121.34	115.69	110.67
Dried Sample + Tare Wt, g			67.81	67.11	67.93	67.08	68.06	68.43	67.6	67.47	68.66	68.35
Tare Wt, g			67.29	66.63	67.37	66.52	67.54	67.85	66.95	66.82	68.11	67.84
Water Wt, g			42.25	40.63	47.52	48.24	44.34	48.8	55.35	53.87	47.03	42.32
Dried Sample Wt, g			0.52	0.48	0.56	0.56	0.52	0.58	0.65	0.65	0.55	0.51
Salt Wt, g			0.024	0.023	0.027	0.027	0.025	0.027	0.031	0.030	0.026	0.024
Particulates Wt, g			0.496	0.457	0.533	0.533	0.495	0.553	0.619	0.620	0.524	0.486
Particulates Conc. (g/L)			11.7	11.2	11.2	11.0	11.1	11.3	11.1	11.5	11.1	11.4

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	115	118	153	191	158	160	204	206	202	61		
Dry Particulates + Filter Paper Wt, g	0.0961	0.0901	0.1029	0.0982	0.0969	0.0974	0.1008	0.1021	0.0964	0.0998		
Filter Paper Wt, g	0.0837	0.0773	0.0866	0.0851	0.0822	0.0837	0.0868	0.0878	0.0806	0.0858		
Dry Particulates Wt, g	0.0124	0.0128	0.0163	0.0131	0.0147	0.0137	0.0140	0.0143	0.0158	0.0140		
Volume (mL)	133	127	141	145	135	134	133	129	132	131		
Particulates TSS Conc. (mg/L)	93.233	100.787	115.603	90.345	108.889	102.239	105.263	110.853	119.697	106.870		
Turbidity (NTU)	45	50	70	65	55	50	50	45	50	45		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	109	77	68	7	80	71	81	97	82	196	86	
Dry Particulates + Filter Paper Wt, g	0.0950	0.0839	0.0913	0.0934	0.0856	0.0868	0.0937	0.0952	0.0894	0.0903	0.0953	
Filter Paper Wt, g	0.0879	0.0768	0.0834	0.0847	0.0773	0.0782	0.0821	0.0863	0.0802	0.0806	0.0860	
Dry Particulates Wt, g	0.0071	0.0071	0.0079	0.0087	0.0083	0.0086	0.0116	0.0089	0.0092	0.0097	0.0093	
Volume (mL)	137	141	138	138	139	144	137	138	141	140	147	
Particulates TSS Conc. (mg/L)	51.825	50.355	57.246	63.043	59.712	59.722	84.672	64.493	65.248	69.286	63.265	
Turbidity (NTU)	28	28	26	31	33	35	34	35	38	35	33	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	69	121	87	59	181	60	111	41	116	32	35	74
Dry Particulates + Filter Paper Wt, g	0.0871	0.0833	0.0892	0.0888	0.0886	0.0896	0.0833	0.0892	0.0941	0.0793	0.0961	0.0950
Filter Paper Wt, g	0.0820	0.0790	0.0849	0.0849	0.0844	0.0852	0.0785	0.0826	0.0877	0.0744	0.0891	0.0891
Dry Particulates Wt, g	0.0051	0.0043	0.0043	0.0039	0.0042	0.0044	0.0048	0.0066	0.0064	0.0049	0.0070	0.0059
Volume (mL)	129	128	130	126	129	109	133	133	131	125	126	127
Particulates TSS Conc. (mg/L)	39.535	33.594	33.077	30.952	32.558	40.367	36.090	49.624	48.855	39.200	55.556	46.457
Turbidity (NTU)	21	20	16	18	21	21	23	21	23	24	23	27

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	22	152	98A	45	208	101	23	44	114	102	53	93
Dry Particulates + Filter Paper Wt, g	0.0806	0.0864	0.0773	0.0834	0.0889	0.0770	0.0891	0.0782	0.0829	0.0863	0.0865	0.0865
Filter Paper Wt, g	0.0783	0.0837	0.0743	0.0795	0.0854	0.0739	0.0841	0.0732	0.0799	0.0827	0.0831	0.0816
Dry Particulates Wt, g	0.0023	0.0027	0.0030	0.0039	0.0035	0.0031	0.0050	0.0050	0.0030	0.0036	0.0034	0.0049
Volume (mL)	116	127	124	130	128	129	129	132	119	126	132	110
Particulates TSS Conc. (mg/L)	19.828	21.260	24.194	30.000	27.344	24.031	38.760	37.879	25.210	28.651	25.758	44.545
Turbidity (NTU)	9.7	14	15	16	16	15	17	17	16	18	17	17

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	191	115	21	196	190	198	86	77	80	61	93
Dry Particulates + Filter Paper Wt, g		0.0819	0.0809	0.0860	0.0838	0.0867	0.0751	0.0751	0.0821	0.0768	0.0830	Filter destroyed in oven
Filter Paper Wt, g		0.0796	0.0797	0.0836	0.0820	0.0850	0.0731	0.0736	0.0792	0.0744	0.0808	0.0837
Dry Particulates Wt, g		0.0023	0.0012	0.0024	0.0018	0.0017	0.0020	0.0015	0.0029	0.0024	0.0022	#VALUE!
Volume (mL)		150	139	138	140	141	139	138	143	139	150	139
Particulates TSS Conc. (mg/L)		15.333	8.633	17.391	12.857	12.057	14.388	10.870	20.280	17.266	14.667	#VALUE!
Turbidity (NTU)		10	9.9	8.5	8.0	8.9	8.9	8.2	9.3	9.8	9.7	10

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	59	41	108	190	32	74	21	65	181	191	111
Dry Particulates + Filter Paper Wt, g		0.0863	0.0817	0.0784	0.0742	0.0795	0.0757	0.0748	0.0802	0.0805	0.0863	0.0864
Filter Paper Wt, g		0.0854	0.0806	0.0776	0.0731	0.0787	0.0744	0.0735	0.0786	0.0796	0.0841	0.0849
Dry Particulates Wt, g		0.0009	0.0011	0.0008	0.0011	0.0008	0.0013	0.0013	0.0016	0.0009	0.0022	0.0015
Volume (mL)		133	140	140	139	142	151	138	141	139	143	142
Particulates TSS Conc. (mg/L)		6.767	7.857	5.714	7.914	5.634	8.609	9.420	11.348	6.475	15.385	10.563
Turbidity (NTU)		6.0	8.7	7.2	7.3	7.5	7.1	5.7	6.3	5.1	4.7	4.9

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	109	99A	64	170	171	167	180	175	83	43	173
Dry Particulates + Filter Paper Wt, g		0.0876	0.0888	0.0867	0.0790	0.0833	0.0862	0.0806	0.0910	0.0874	0.0876	0.0829
Filter Paper Wt, g		0.0855	0.0873	0.0834	0.0772	0.0820	0.0847	0.0793	0.0871	0.0854	0.0860	0.0810
Dry Particulates Wt, g		0.0021	0.0015	0.0033	0.0018	0.0013	0.0015	0.0013	0.0039	0.0020	0.0016	0.0019
Volume (mL)		128	142	142	123	124	124	142	126	125	130	136
Particulates TSS Conc. (mg/L)		16.406	10.563	23.239	14.634	10.484	12.097	9.155	30.952	16.000	12.308	13.971
Turbidity (NTU)		13	10	6.6	5.5	6.2	6.3	5.5	6.4	6.6	4.5	4.9

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	196	197	198	199	200	201	202	203	204	205	195
Dry Particulates + Filter Paper Wt, g		0.0852	0.0869	0.0880	0.0889	0.0817	0.0850	0.0897	0.0907	0.0890	0.0834	0.0874
Filter Paper Wt, g		0.0844	0.0850	0.0857	0.0872	0.0810	0.0837	0.0886	0.0871	0.0853	0.0816	0.0857
Dry Particulates Wt, g		0.0008	0.0019	0.0023	0.0017	0.0007	0.0013	0.0011	0.0036	0.0037	0.0018	0.0017
Volume (mL)		138	125	126	130	127	123	126	118	132	137	138
Particulates TSS Conc. (mg/L)		5.797	15.200	18.254	13.077	5.512	10.569	8.730	30.508	28.030	13.139	12.319
Turbidity (NTU)		17	29	29	26	26	26	27	26	28	25	27

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-40063	CST Test #:	9
Test Start Date:	3/15/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	--	197	203	151	159	199	198	66	202	162	195
Dry Particulates + Filter Paper Wt, g			0.0853	0.0880	0.0816	0.0861	0.0847	0.0855	0.0881	0.0884	0.0818	0.0865
Filter Paper Wt, g			0.0842	0.0873	0.0787	0.0827	0.0813	0.0840	0.0867	0.0851	0.0783	0.0827
Dry Particulates Wt, g			0.0011	0.0007	0.0029	0.0034	0.0034	0.0015	0.0014	0.0033	0.0035	0.0038
Volume (mL)			140	138	139	147	138	145	139	140	141	145
Particulates TSS Conc. (mg/L)			7.857	5.072	20.863	23.129	24.638	10.345	10.072	23.571	24.823	26.207
Turbidity (NTU)			20	22	23	23	23	23	23	24	23	23

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-40063	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50273		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-40063	---	Moist, dark gray silt	50.1

Notes: Temperature of Drying : 110° Celsius

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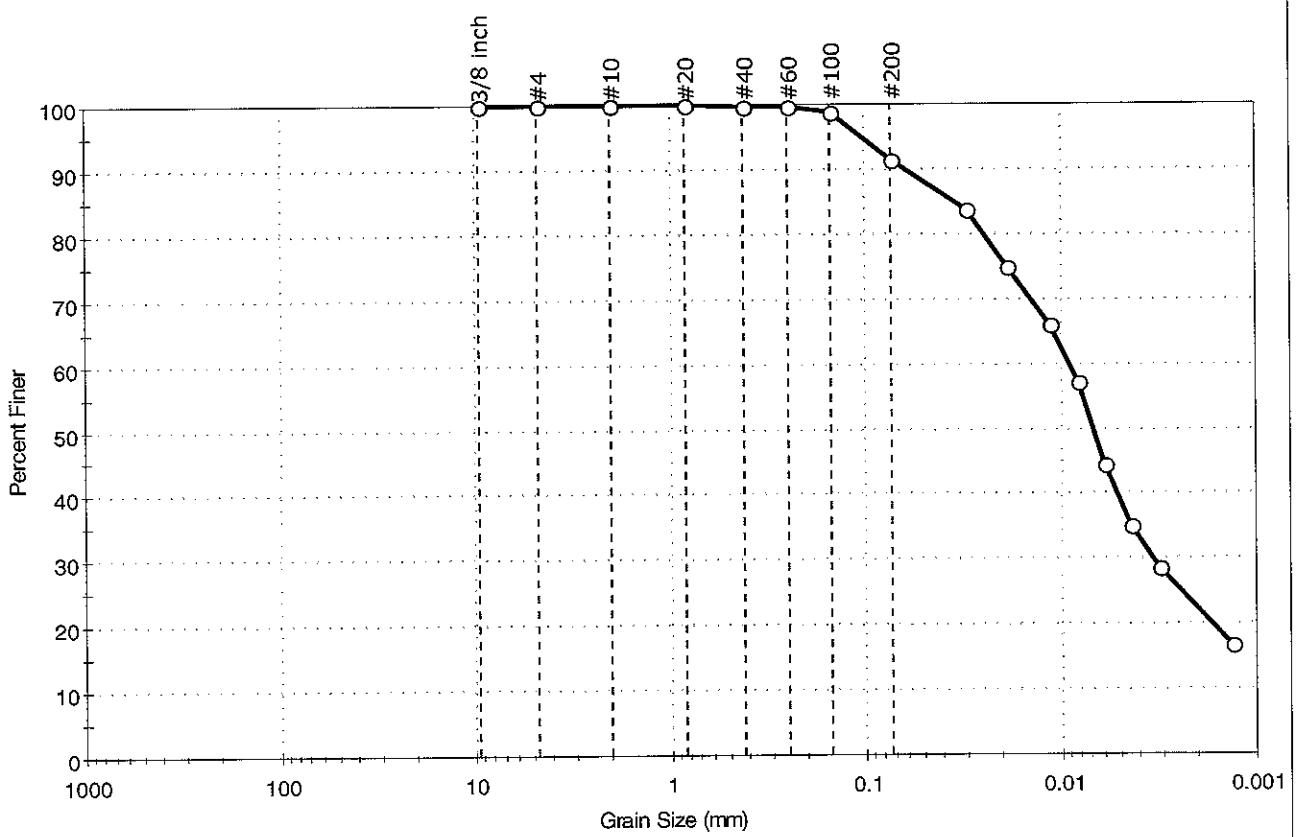
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-40063	Test Date: 04/04/07	Checked By:	jdt
Depth : ---	Test Id: 109697		
Test Comment:	---		
Sample Description:	Moist, dark gray silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	8.6	91.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	91		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0300	84		
---	0.0188	75		
---	0.0113	66		
---	0.0082	57		
---	0.0061	45		
---	0.0044	35		
---	0.0032	29		
---	0.0013	17		

Coefficients

D_{85} = 0.0344 mm	D_{30} = 0.0034 mm
D_{60} = 0.0091 mm	D_{15} = N/A
D_{50} = 0.0069 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (26))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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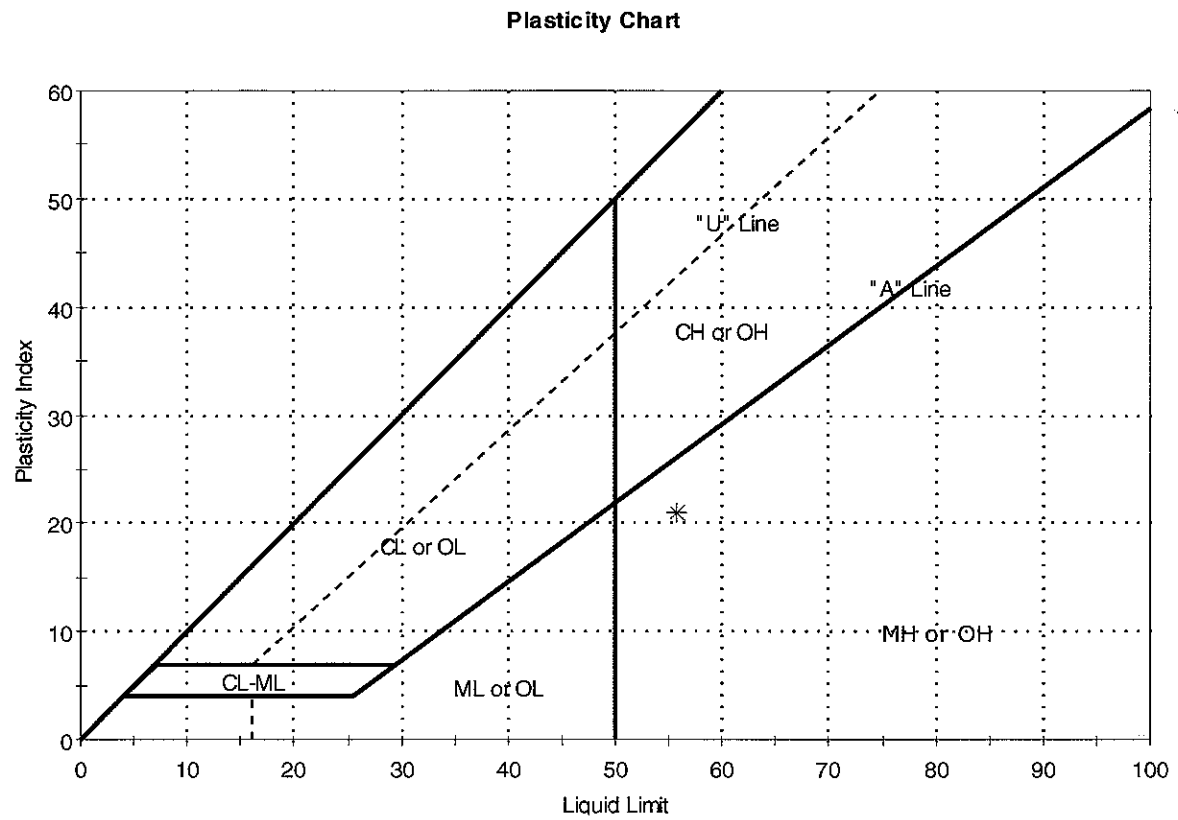
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-40063		Test Date:	04/16/07	Checked By:	jdt
Depth : ---		Test Id:	109714		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-40063	---	---	50	56	35	21	1	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	rmt
Sample ID:OL-STA-40063	Test Date: 04/06/07	Checked By:	jdt
Depth : ---	Test Id: 109748		
Test Comment: ---			
Sample Description: Moist, dark gray silt			
Sample Comment: ---			

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-40063	---	Moist, dark gray silt	2.64

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/02/07
Tested by:	md
Checked by:	jdt

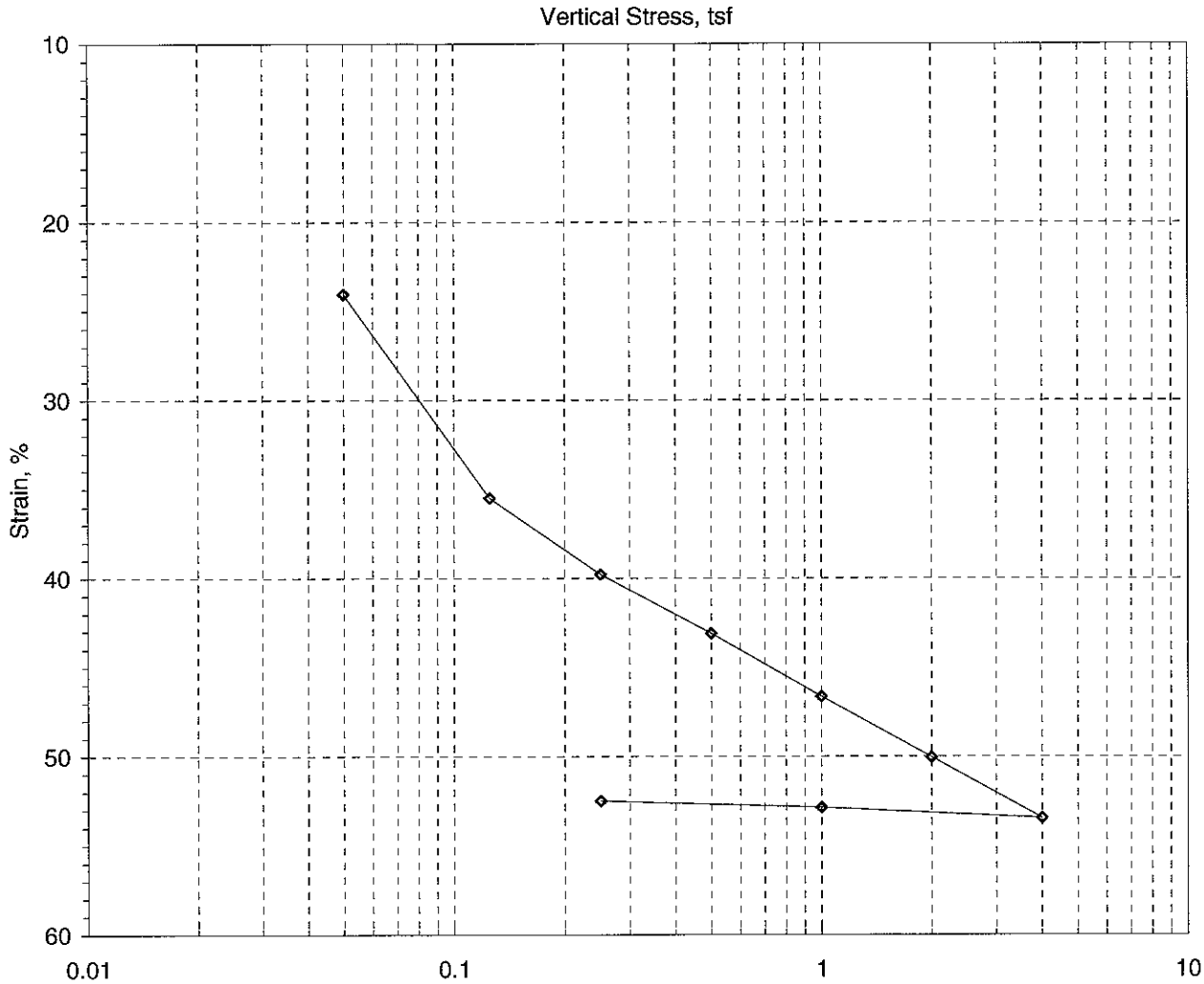
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-40063	Moist, dark gray silt	0.40	0.42	0.40	0.41	0.41

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	145	45
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	35.5	74.6
Compression Index:	---			Saturation, %	99.9	98.9
Diameter:	11.0 in	Initial Height:	6.45 in	Void Ratio	3.65	1.21
LL: 56	PL: 35	PI: 21	GS: 2.64			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks: Unable to report data for 0.1 tsf load increment				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40063
Test No.:CST 9 (LC-6)

Location: Syracuse, NY
Tested By: md
Test Date: 03/30/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: System P

Measured Specific Gravity: 2.64
Initial Void Ratio: 3.65
Final Void Ratio: 1211

Liquid Limit: 56
Plastic Limit: 35
Plasticity Index: 21

Initial Height: 6.45 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		146	RING		unknown
Wt. Container + Wet Soil,	gm	112.45	30020	24730	257.53
Wt. Container + Dry Soil,	gm	85.8	22147	22147	146.76
Wt. Container, gm		67.47	16440	16440	7.95
Wt. Dry Soil, gm		18.33	5706.8	5706.8	171.81
Water Content, %		145.4	138.0	45.3	45.3
Void Ratio		---	3.647	1.21	---
Degree of Saturation, %		---	99.9	9839.0	---
Dry Unit Weight, pcf		---	35.5	74.6	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 40063
Test No.: CST 9 (LC-6)

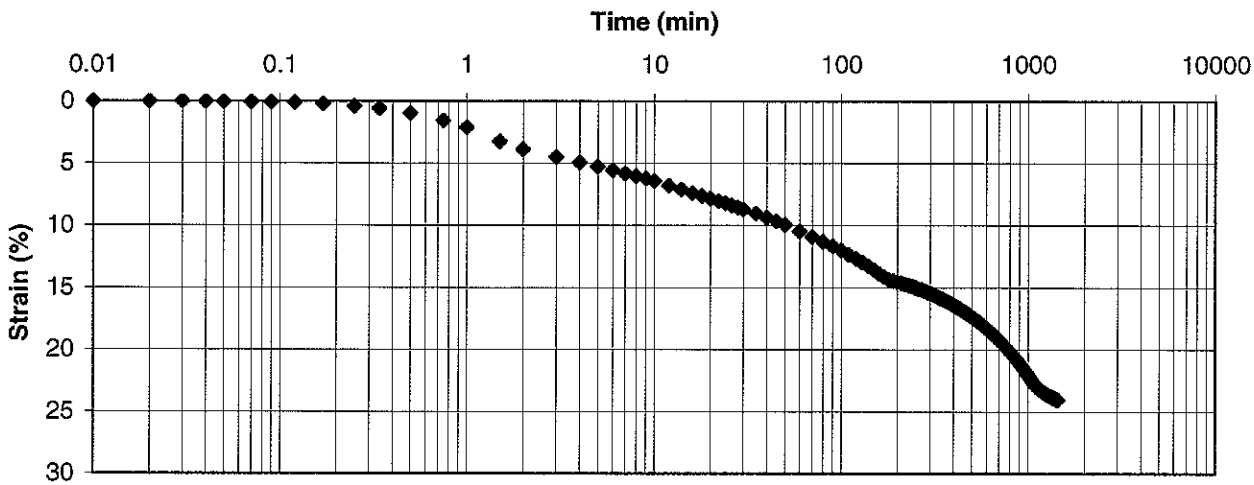
Location: Syracuse, NY
Tested By: md
Test Date: 03/30/07
Sample Type: Column

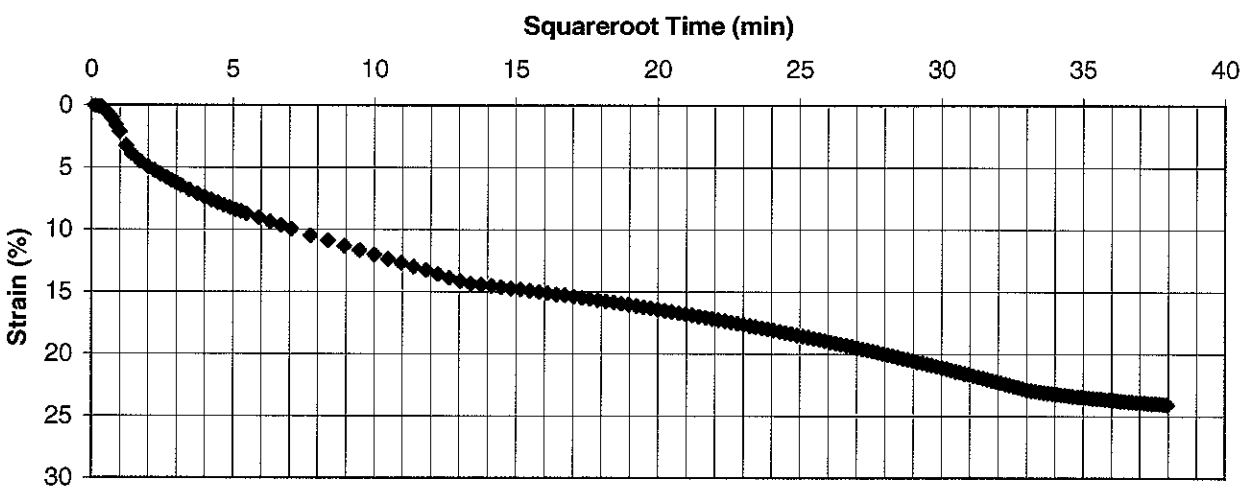
Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: System P

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	1.552	2.529	24.062	147.6	0	7.17E-04	0.00E+00	7.17E-04
3	0.125	2.2889	1.998	35.487	90.8	0	1.91E-03	0.00E+00	1.91E-03
4	0.25	2.5655	1.799	39.775	57.1	0	2.68E-03	0.00E+00	2.68E-03
5	0.5	2.77978	1.644	43.097	28	29.6	5.07E-03	4.80E-03	4.93E-03
6	1	3.0085	1.480	46.643	18.6	17.3	7.13E-03	7.68E-03	7.40E-03
7	2	3.2275	1.322	50.039	10.5	10.2	1.18E-02	1.21E-02	1.19E-02
8	4	3.4475	1.163	53.450	6.5	7	1.76E-02	1.63E-02	1.69E-02
9	1	3.4091	1.191	52.854	0	0	3.39E+00	0.00E+00	3.39E+00
10	0.25	3.3849	1.208	52.479	1	0	1.13E-01	0.00E+00	1.13E-01

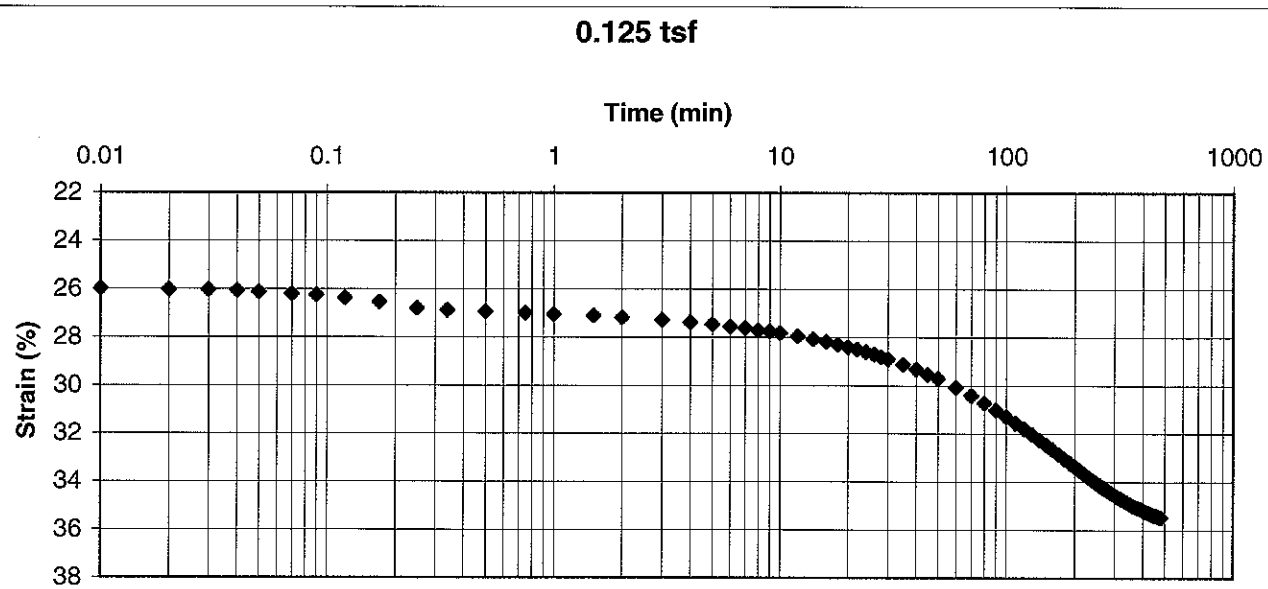
CONSOLIDATION TEST DATA
TIME CURVES

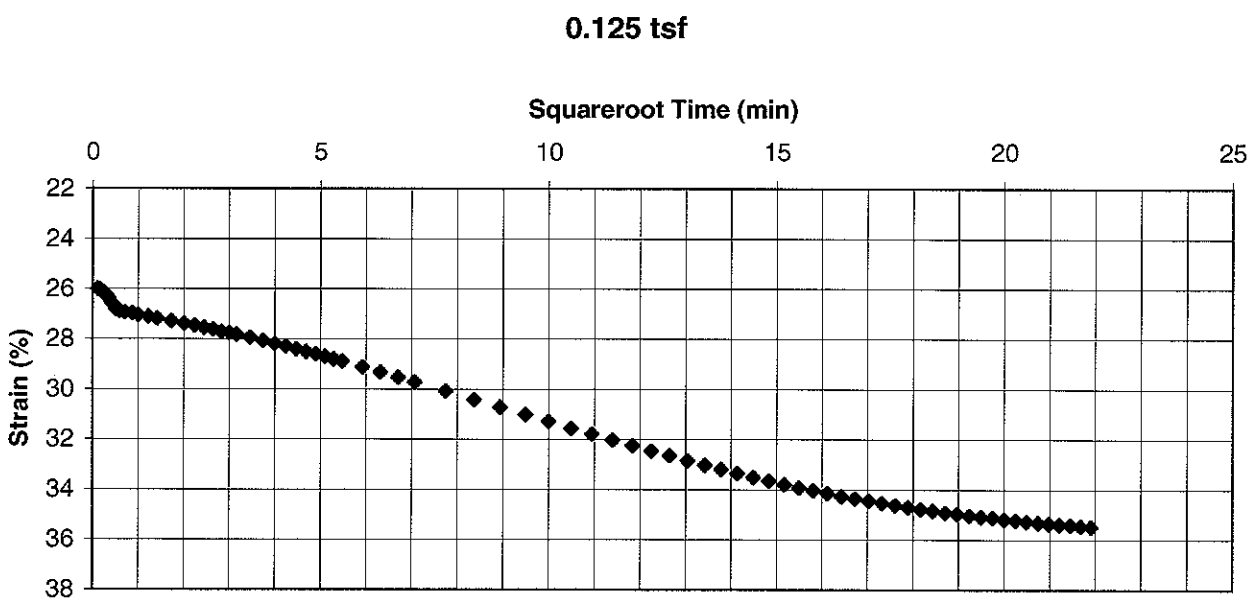




GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

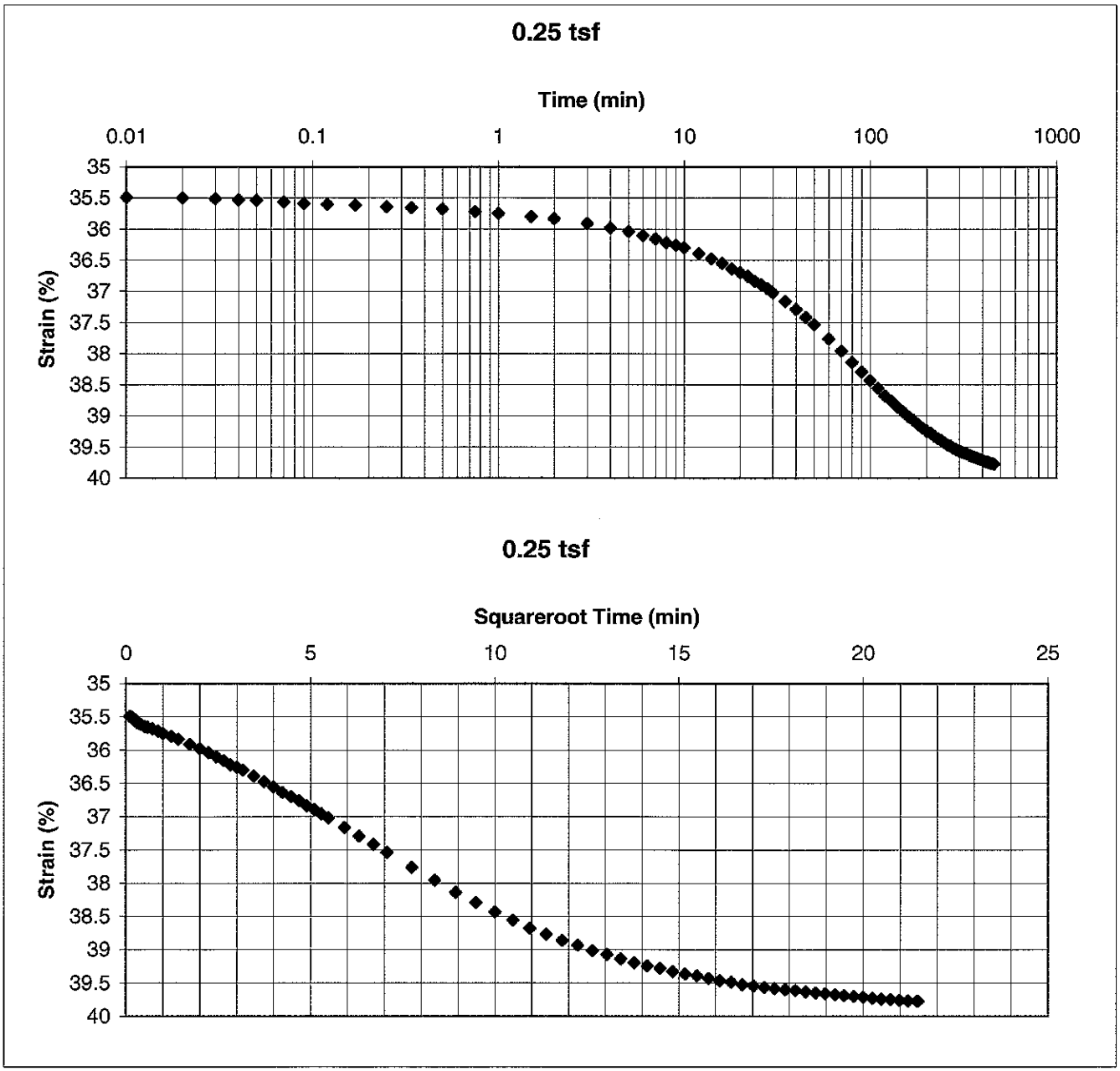
CONSOLIDATION TEST DATA
TIME CURVES





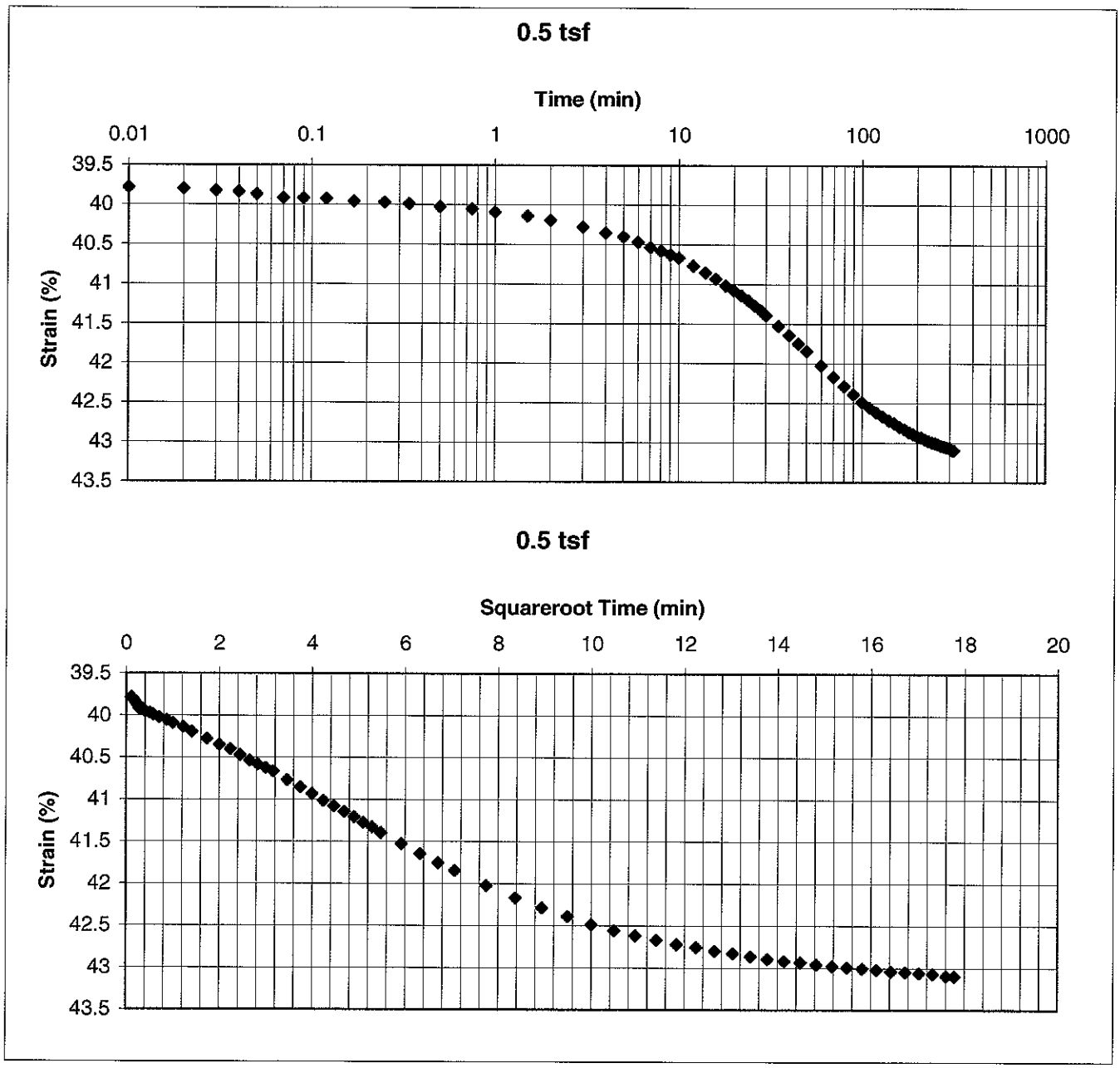
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

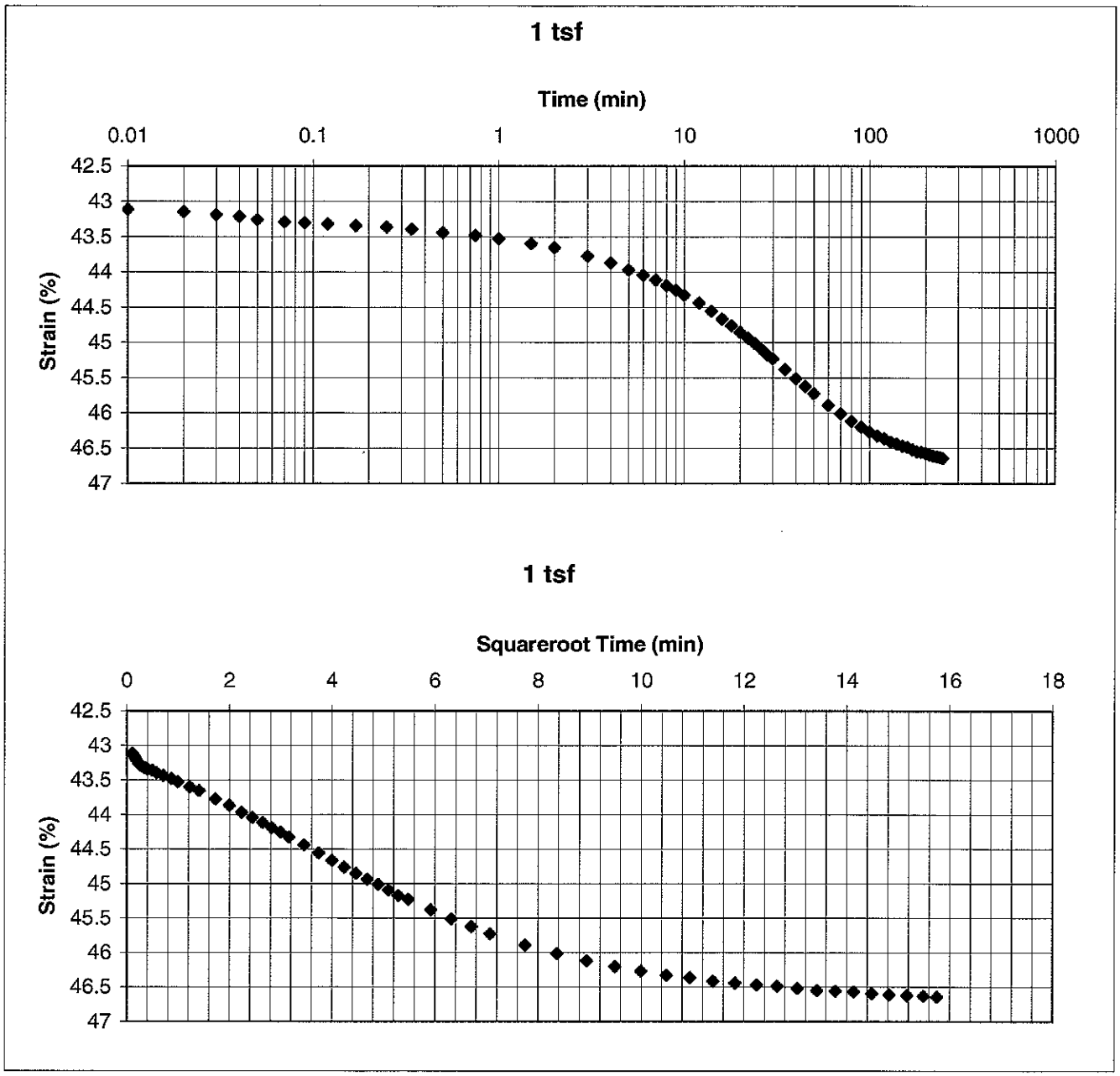
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

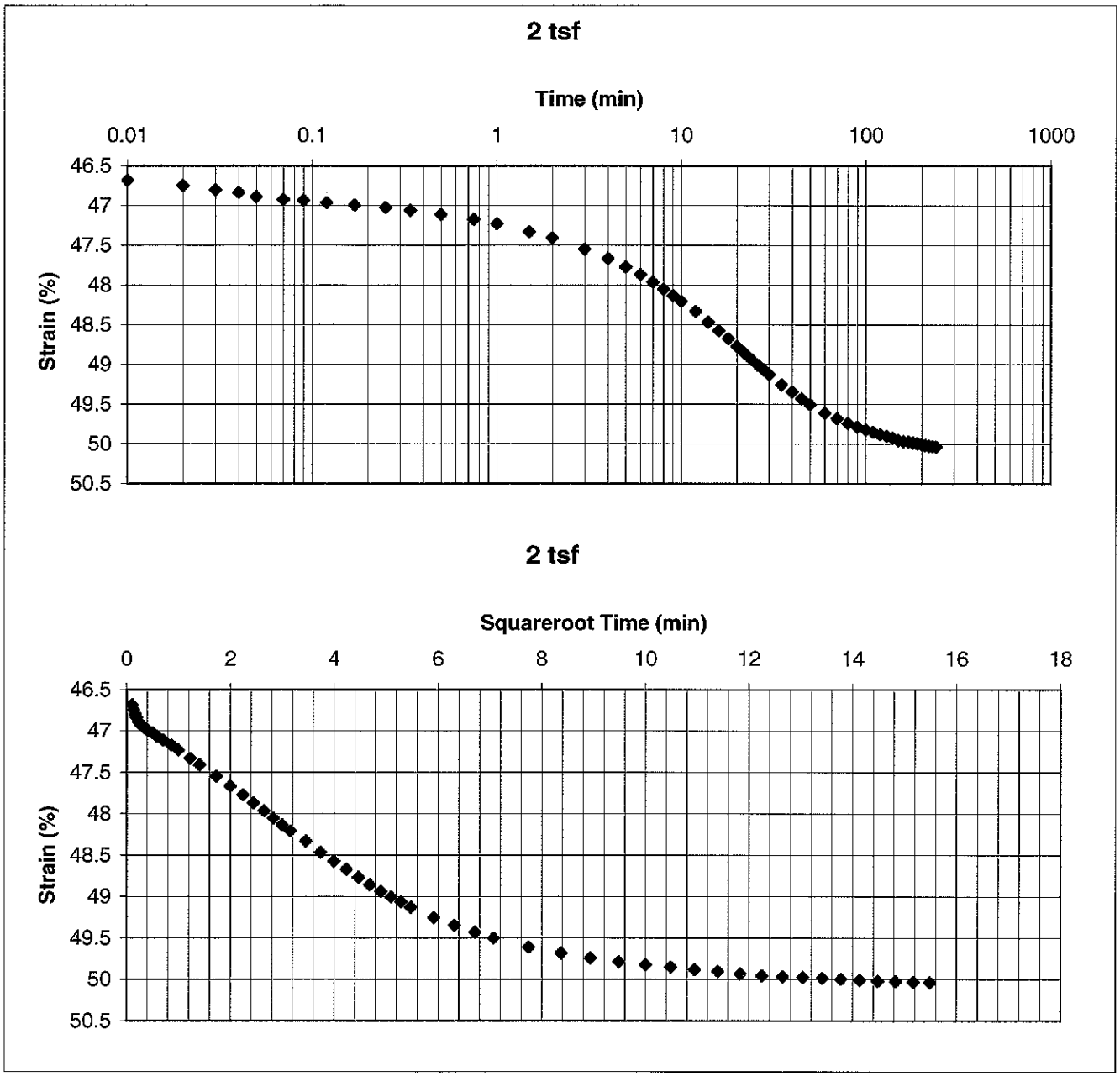
CONSOLIDATION TEST DATA

TIME CURVES



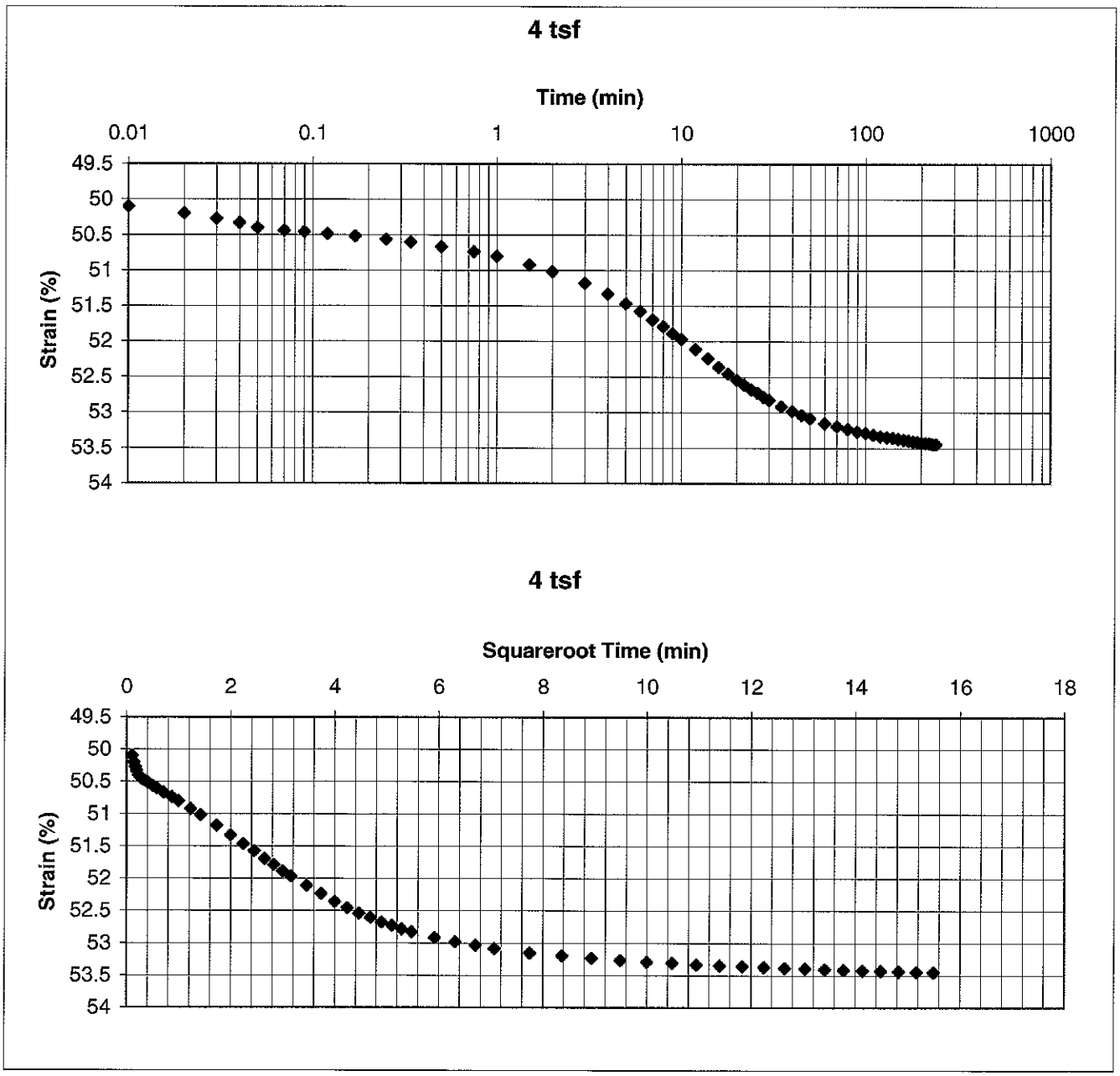
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



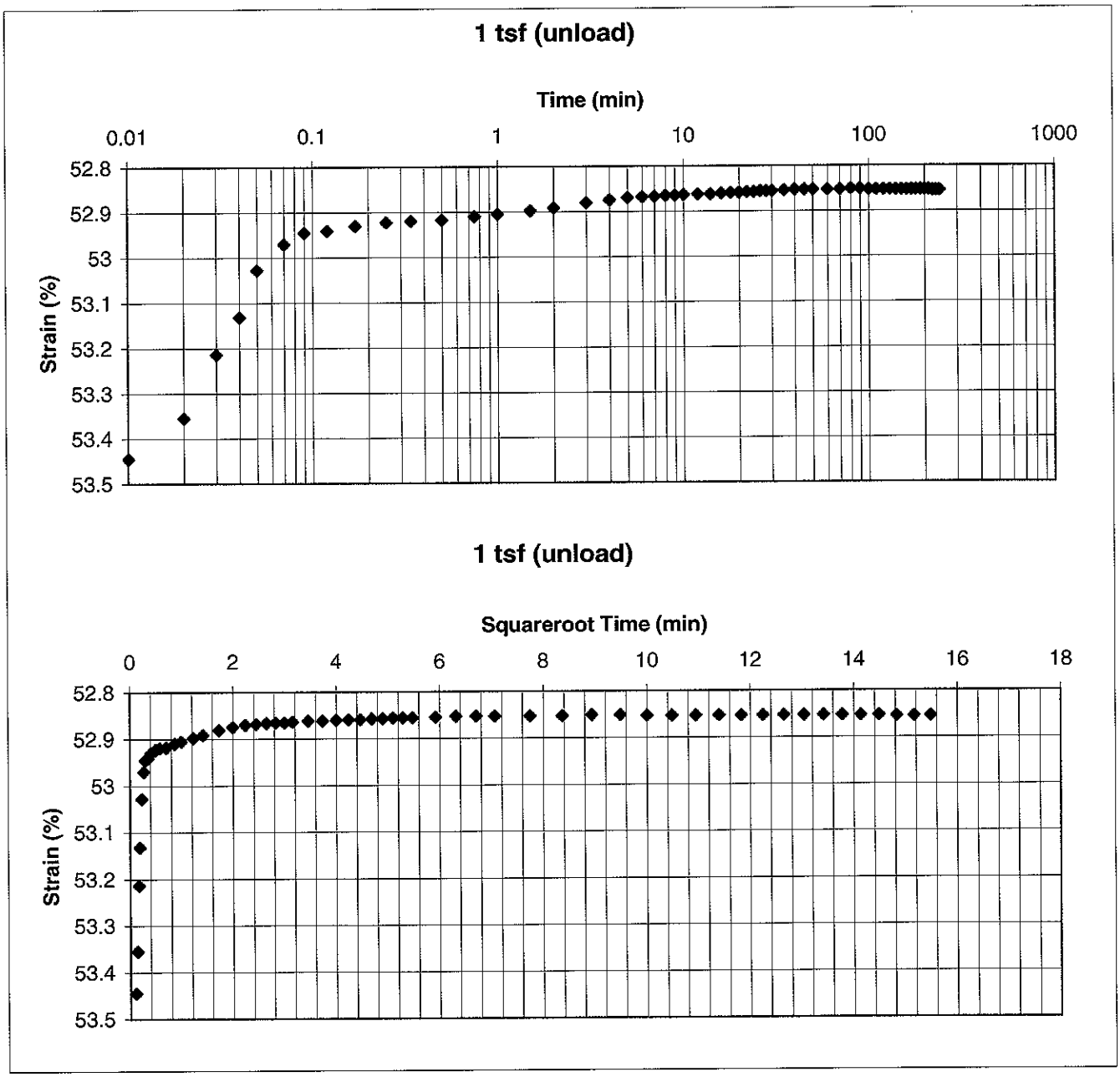
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



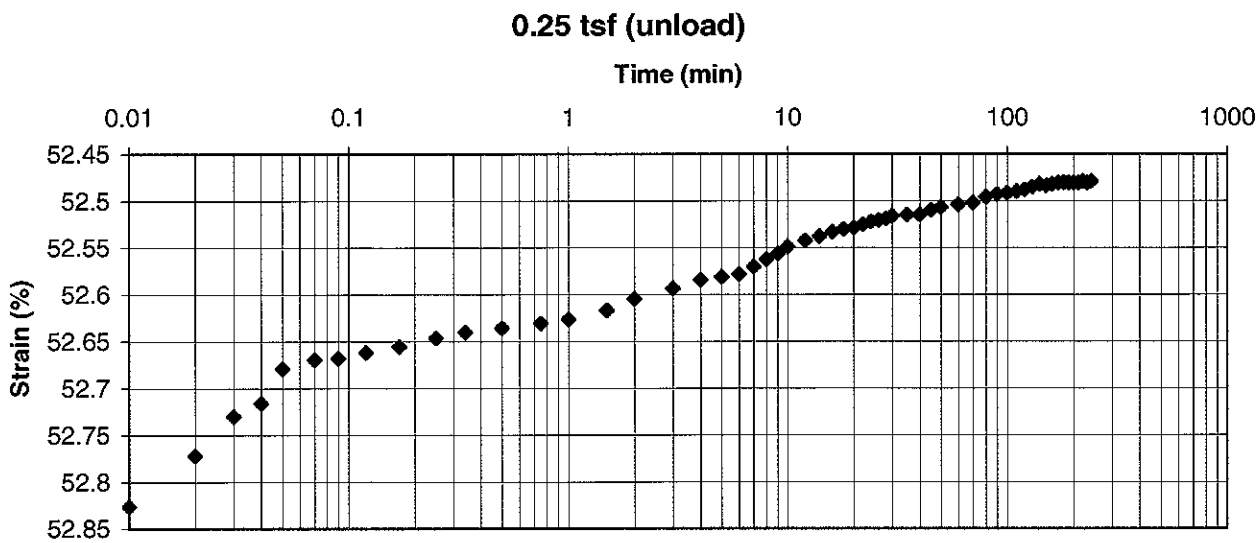
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

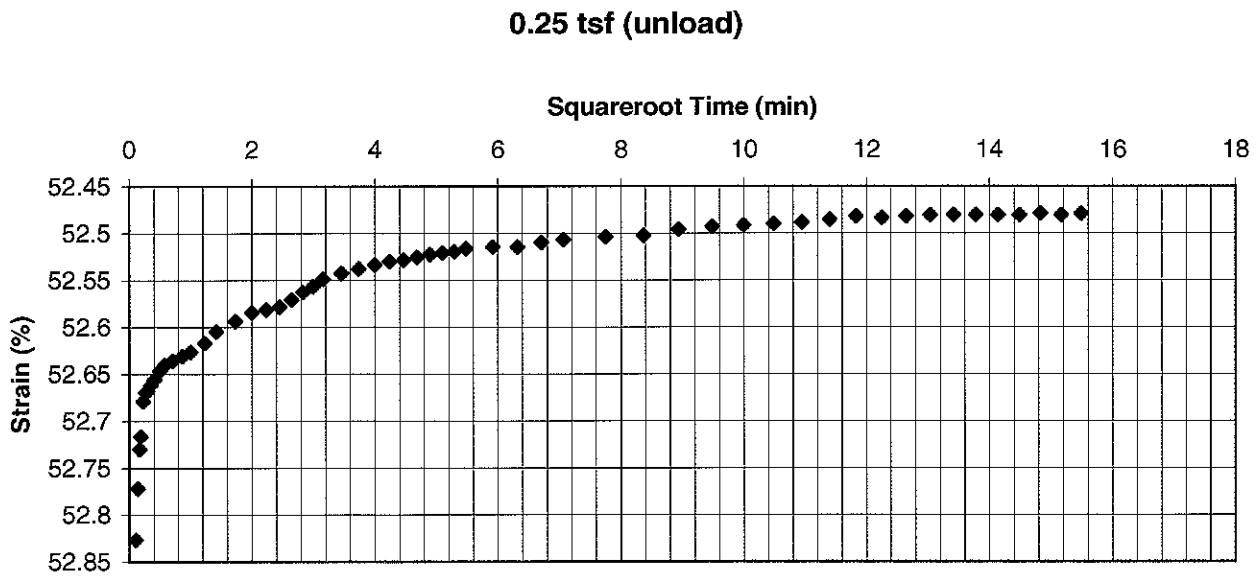
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 40063	Test Date:	3/30/2007	Depth:	---
	Test No.: CST 9 (LC-6)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
04/12/07	9:55 AM	0	0.00	84.1			
	11:20 AM	85	1.42	83.8			
	2:05 PM	250	4.17	83.6			
	4:02 PM	367	6.12	83.4			
04/13/07	11:00 AM	1505	25.08	83.2			
04/16/07	11:00 AM	5825	97.08	82.8			
04/20/07	9:50 AM	11515	191.92	82.5			
04/27/07	10:00 AM	21605	360.08	82			

SOLIDS INTERFACE DID NOT DEVELOP

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	68	105	96									
Wet Sample + Tare Wt, g	146.68	137.34	130.28									
Dried Sample + Tare Wt, g	75.49	73.62	74.23									
Tare Wt, g	67.26	66.16	68.17									
Water Wt, g	71.19	63.72	56.05									
Dried Sample Wt, g	8.23	7.46	6.06									
Salt Wt, g	0.045	0.040	0.035									
Particulates Wt, g	8.185	7.420	6.025									
Particulates Conc. (g/L)	109.9	111.3	103.1									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column None collected

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	60	---	71	---	174	---	182					
Wet Sample + Tare Wt, g	105.33		111.19		111.63		108.20					
Dried Sample + Tare Wt, g	67.98		67.83		67.28		67.54					
Tare Wt, g	67.78		67.59		67.05		67.37					
Water Wt, g	37.35		43.36		44.35		40.66					
Dried Sample Wt, g	0.20		0.24		0.23		0.17					
Salt Wt, g	0.023		0.027		0.028		0.025					
Particulates Wt, g	0.177		0.213		0.202		0.145					
Particulates Conc. (g/L)	4.7		4.9		4.6		3.6					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	11	---	100	---	21	---	6					
Wet Sample + Tare Wt, g	102.03		108.37		109.49		117.88					
Dried Sample + Tare Wt, g	65.99		68.60		66.26		68.37					
Tare Wt, g	65.81		68.39		66.04		68.11					
Water Wt, g	36.04		39.77		43.23		49.51					
Dried Sample Wt, g	0.18		0.21		0.22		0.26					
Salt Wt, g	0.023		0.025		0.027		0.031					
Particulates Wt, g	0.157		0.185		0.193		0.229					
Particulates Conc. (g/L)	4.4		4.6		4.5		4.6					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	63	---	197	---	50	---	168					
Wet Sample + Tare Wt, g	106.34		109.30		110.54		116.90					
Dried Sample + Tare Wt, g	67.71		68.06		67.78		68.19					
Tare Wt, g	67.52		67.86		67.56		67.96					
Water Wt, g	38.63		41.24		42.76		48.71					
Dried Sample Wt, g	0.19		0.20		0.22		0.23					
Salt Wt, g	0.024		0.026		0.027		0.030					
Particulates Wt, g	0.166		0.174		0.193		0.200					
Particulates Conc. (g/L)	4.3		4.2		4.5		4.1					

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a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	9	---	8	---	119	---	65					
Wet Sample + Tare Wt, g	102.66		114.17		111.67		115.73					
Dried Sample + Tare Wt, g	67.81		66.93		67.83		67.78					
Tare Wt, g	67.62		66.68		67.62		67.54					
Water Wt, g	34.85		47.24		43.84		47.95					
Dried Sample Wt, g	0.19		0.25		0.21		0.24					
Salt Wt, g	0.022		0.030		0.027		0.030					
Particulates Wt, g	0.168		0.220		0.183		0.210					
Particulates Conc. (g/L)	4.8		4.7		4.2		4.4					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	35	---	105A	---	12	---	91					
Wet Sample + Tare Wt, g	101.21		112.26		110.82		109.95					
Dried Sample + Tare Wt, g	67.50		67.78		66.49		67.78					
Tare Wt, g	67.34		67.56		66.25		67.57					
Water Wt, g	33.71		44.48		44.33		42.17					
Dried Sample Wt, g	0.16		0.22		0.24		0.21					
Salt Wt, g	0.021		0.028		0.028		0.026					
Particulates Wt, g	0.139		0.192		0.212		0.184					
Particulates Conc. (g/L)	4.1		4.3		4.8		4.3					

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

72 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	36	---	79	---	42	---	95					
Wet Sample + Tare Wt, g	122.19		127.87		129.77		131.96					
Dried Sample + Tare Wt, g	66.26		68.11		67.69		66.37					
Tare Wt, g	65.88		67.75		67.30		66.00					
Water Wt, g	55.93		59.76		62.08		65.59					
Dried Sample Wt, g	0.38		0.36		0.39		0.37					
Salt Wt, g	0.035		0.037		0.039		0.041					
Particulates Wt, g	0.345		0.323		0.351		0.329					
Particulates Conc. (g/L)	6.2		5.4		5.6		5.0					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	43	---	13	---	198	---	82					
Wet Sample + Tare Wt, g	106.41		102.51		115.11		117.36					
Dried Sample + Tare Wt, g	67.72		65.76		68.03		67.59					
Tare Wt, g	67.62		65.67		67.90		67.43					
Water Wt, g	38.69		36.75		47.08		49.77					
Dried Sample Wt, g	0.10		0.09		0.13		0.16					
Salt Wt, g	0.024		0.023		0.029		0.031					
Particulates Wt, g	0.076		0.067		0.101		0.129					
Particulates Conc. (g/L)	2.0		1.8		2.1		2.6					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	104A	---	115	---	187	---	192					
Wet Sample + Tare Wt, g	104.68		107.33		109.74		112.64					
Dried Sample + Tare Wt, g	67.16		66.25		67.19		67.56					
Tare Wt, g	66.97		66.02		66.96		67.33					
Water Wt, g	37.52		41.08		42.55		45.08					
Dried Sample Wt, g	0.19		0.23		0.23		0.23					
Salt Wt, g	0.023		0.026		0.027		0.028					
Particulates Wt, g	0.167		0.204		0.203		0.202					
Particulates Conc. (g/L)	4.4		5.0		4.8		4.5					

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	161	50	182	179	116	168	44	8	57	9	119	165
Wet Sample + Tare Wt, g	110.48	110.56	110.63	114.32	110.34	117.36	108.79	113.21	108.32	112.65	111.53	119.22
Dried Sample + Tare Wt, g	66.68	67.76	67.57	67.97	68.46	68.17	66.08	66.88	67.79	67.81	67.78	68.29
Tare Wt, g	66.45	67.54	67.37	67.76	68.25	67.94	65.9	66.67	66.67	67.71	67.58	68.04
Water Wt, g	43.8	42.8	43.06	46.35	41.88	49.19	42.71	46.33	40.53	44.84	43.75	50.93
Dried Sample Wt, g	0.23	0.22	0.2	0.21	0.21	0.23	0.18	0.21	1.12	0.1	0.2	0.25
Salt Wt, g	0.027	0.027	0.027	0.029	0.026	0.031	0.027	0.029	0.025	0.028	0.027	0.032
Particulates Wt, g	0.203	0.193	0.173	0.181	0.184	0.199	0.153	0.181	1.095	0.072	0.173	0.218
Particulates Conc. (g/L)	4.6	4.5	4.0	3.9	4.4	4.0	3.6	3.9	26.7	1.6	3.9	4.3

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60098	CST Test #:	16
Test Start Date:	4/12/2007	Tested By:	md
Test Start Time:	9:55	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

SOLIDS INTERFACE DID NOT DEVELOP

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	13	38	157	49	173	154	39	98A	167	163	66	95
Dry Particulates + Filter Paper Wt, g	0.092	0.1694	0.1695	0.1746	0.1717	0.1754	0.1744	0.1768	0.1735	0.1708	0.1762	0.1627
Filter Paper Wt, g	0.0877	0.166	0.1662	0.1708	0.1681	0.1714	0.1709	0.1727	0.1689	0.167	0.1726	0.1587
Dry Particulates Wt, g	0.0043	0.0034	0.0033	0.0038	0.0036	0.004	0.0035	0.0041	0.0046	0.0038	0.0036	0.004
Volume (mL)	129	135	131	135	137	137	135	135	143	141	143	141
Particulates TSS Conc. (mg/L)	33.333	25.185	25.191	28.148	26.277	29.197	25.926	30.370	32.168	26.950	25.175	28.369
Turbidity (NTU)	24	28	26	27	26	26	26	27	27	27	27	26

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-60098		Test Date:	05/25/07	Checked By:	n/a
Depth : ---		Sample Id:	50281		
Test Comment:	---				
Sample Description:	Moist, black silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-60098	---	Moist, black silt	49.3

Notes: Temperature of Drying : 110° Celsius

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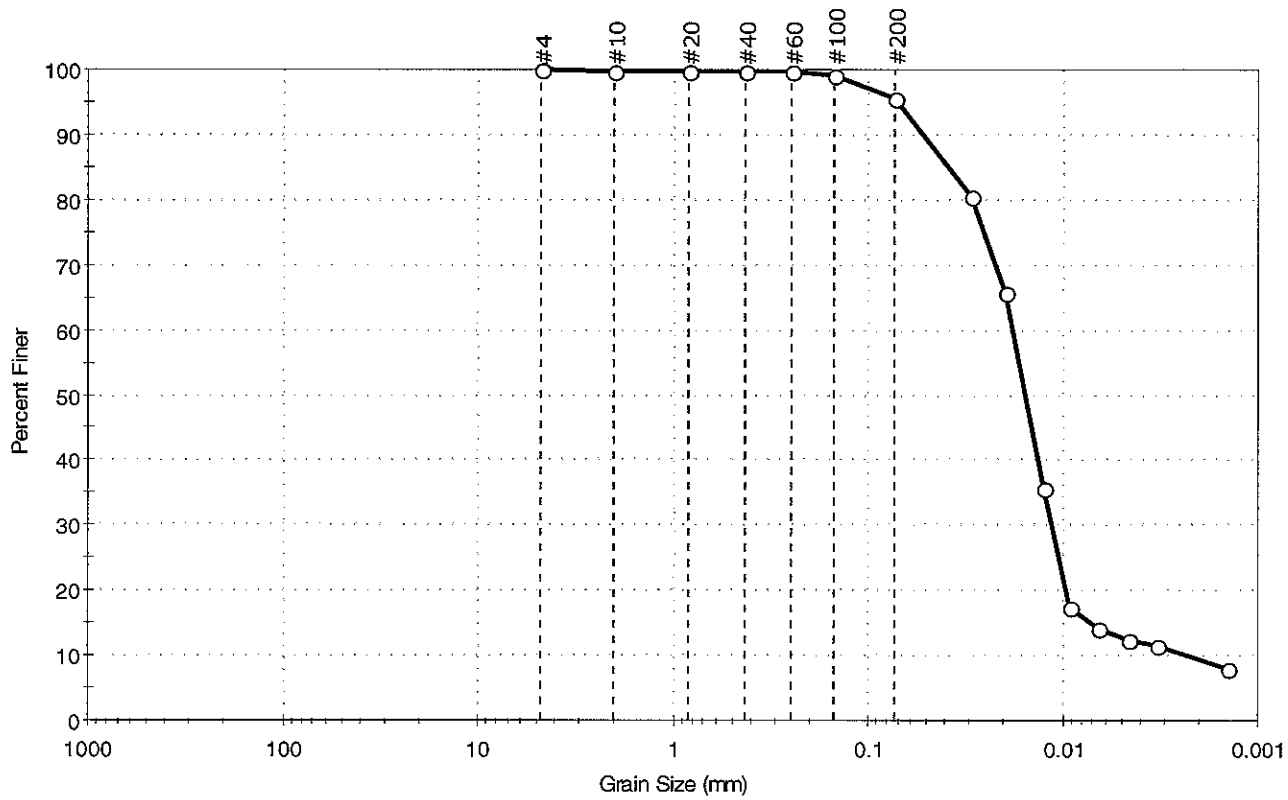
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-60098	Test Date: 05/23/07	Checked By:	jdt
Depth : ---	Test Id: 109705		
Test Comment: ---			
Sample Description: Moist, black silt			
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	4.4	95.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	96		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0296	81		
---	0.0197	66		
---	0.0125	36		
---	0.0093	18		
---	0.0066	14		
---	0.0047	12		
---	0.0033	11		
---	0.0014	8		

Coefficients

D_{85} = 0.0387 mm	D_{30} = 0.0114 mm
D_{60} = 0.0181 mm	D_{15} = 0.0072 mm
D_{50} = 0.0155 mm	D_{10} = 0.0023 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (24))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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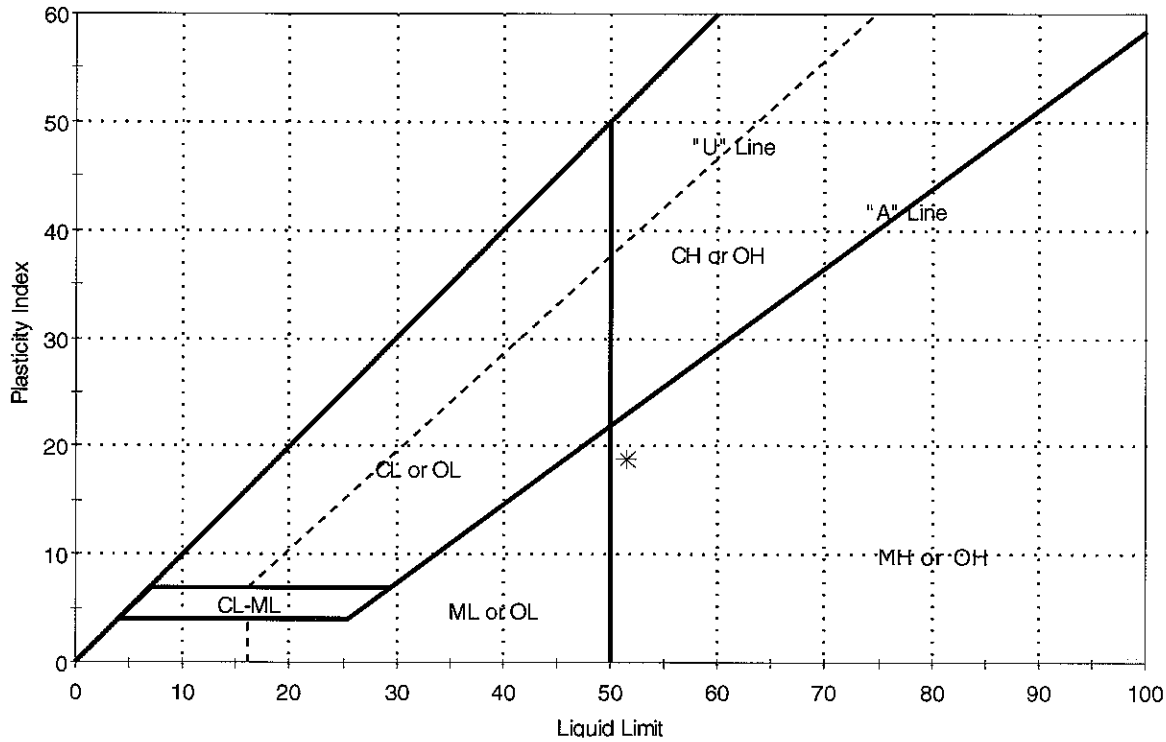
GeoTesting express
a subsidiary of Geocomp Corporation

Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-60098		Test Date:	05/15/07	Checked By:	jdt
Depth : ---		Test Id:	109722		
Test Comment:	---				
Sample Description:	Moist, black silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-60098	---	---	49	52	33	19	1	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: n/a
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-60098	Test Date:	05/15/07	Checked By:	jdt
Depth :	---	Test Id:	109756		
Test Comment:	---				
Sample Description:	Moist, black silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-60098	---	Moist, black silt	2.49

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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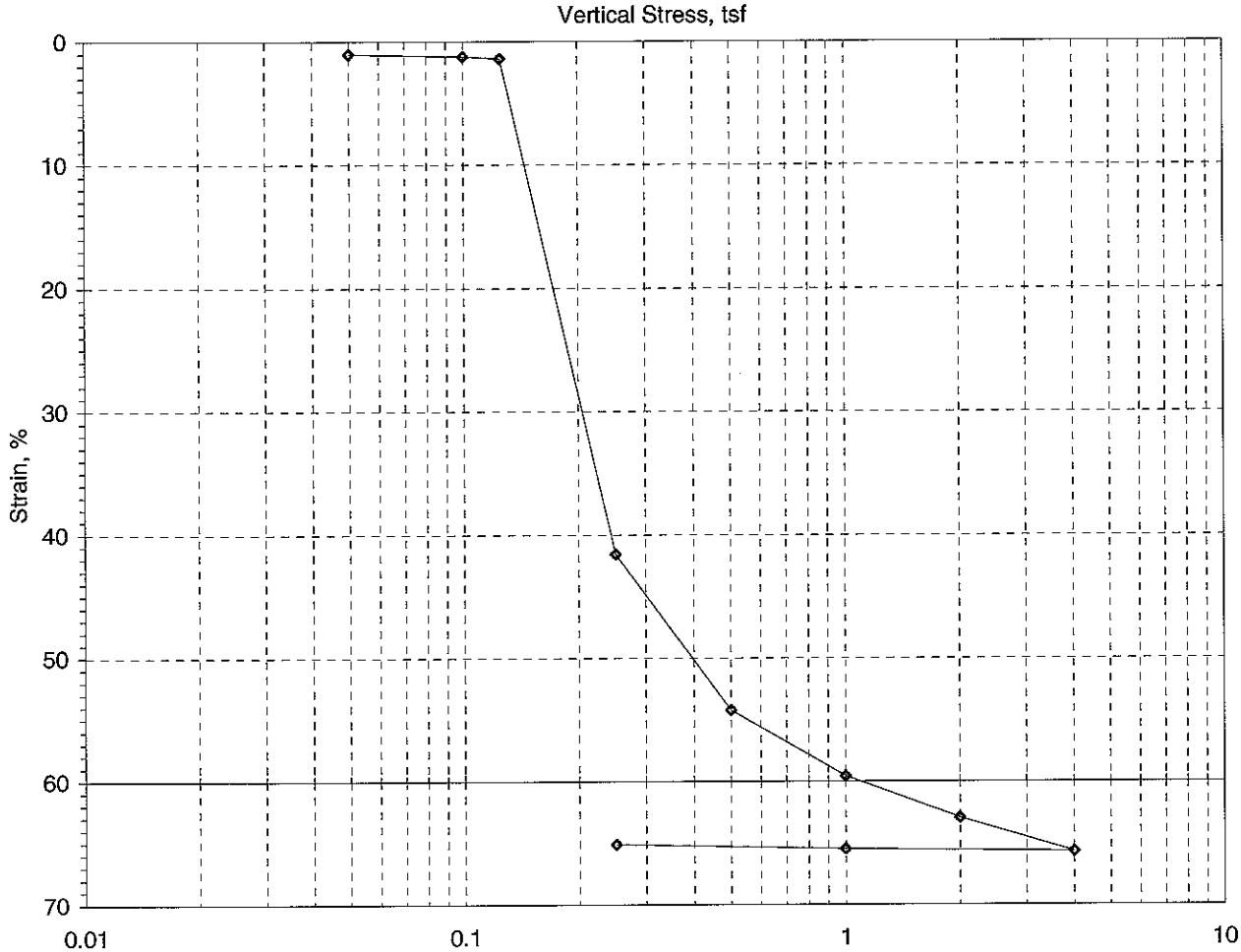
Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	05/18/07
Tested by:	md
Checked by:	jdt

Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-60098	Moist, black silt	0.39	0.47	0.51	0.43	0.45

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA
SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	186	39
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	27.6	77.8
Compression Index:	---			Saturation, %	100.0	100.0
Diameter:	11.0 in	Initial Height: 3.55 in		Void Ratio	4.64	0.96
LL: 52	PL: 33	PI 19	GS: 2.49			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60098
Test No.:CST 16 (LC-15)

Location: Syracuse, NY
Tested By: md
Test Date: 05/03/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, black silt
Remarks: System P

Measured Specific Gravity: 2.49
Initial Void Ratio: 4.64
Final Void Ratio: 0.96

Liquid Limit: 52
Plastic Limit: 33
Plasticity Index: 19

Initial Height: 3.55 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		101	RING		2200E
Wt. Container + Wet Soil,	gm	113.76	23230	19626	249.58
Wt. Container + Dry Soil,	gm	77.86	18683	18683	182.49
Wt. Container, gm		68.07	16240	16240	8.62
Wt. Dry Soil, gm		9.79	2443.2	2443.2	173.87
Water Content, %		366.7	186.1	38.6	38.6
Void Ratio		---	4.63	0.96	---
Degree of Saturation, %		---	100.0	100.0	---
Dry Unit Weight, pcf		---	27.6	77.8	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60098
Test No.: CST 16 (LC-15)

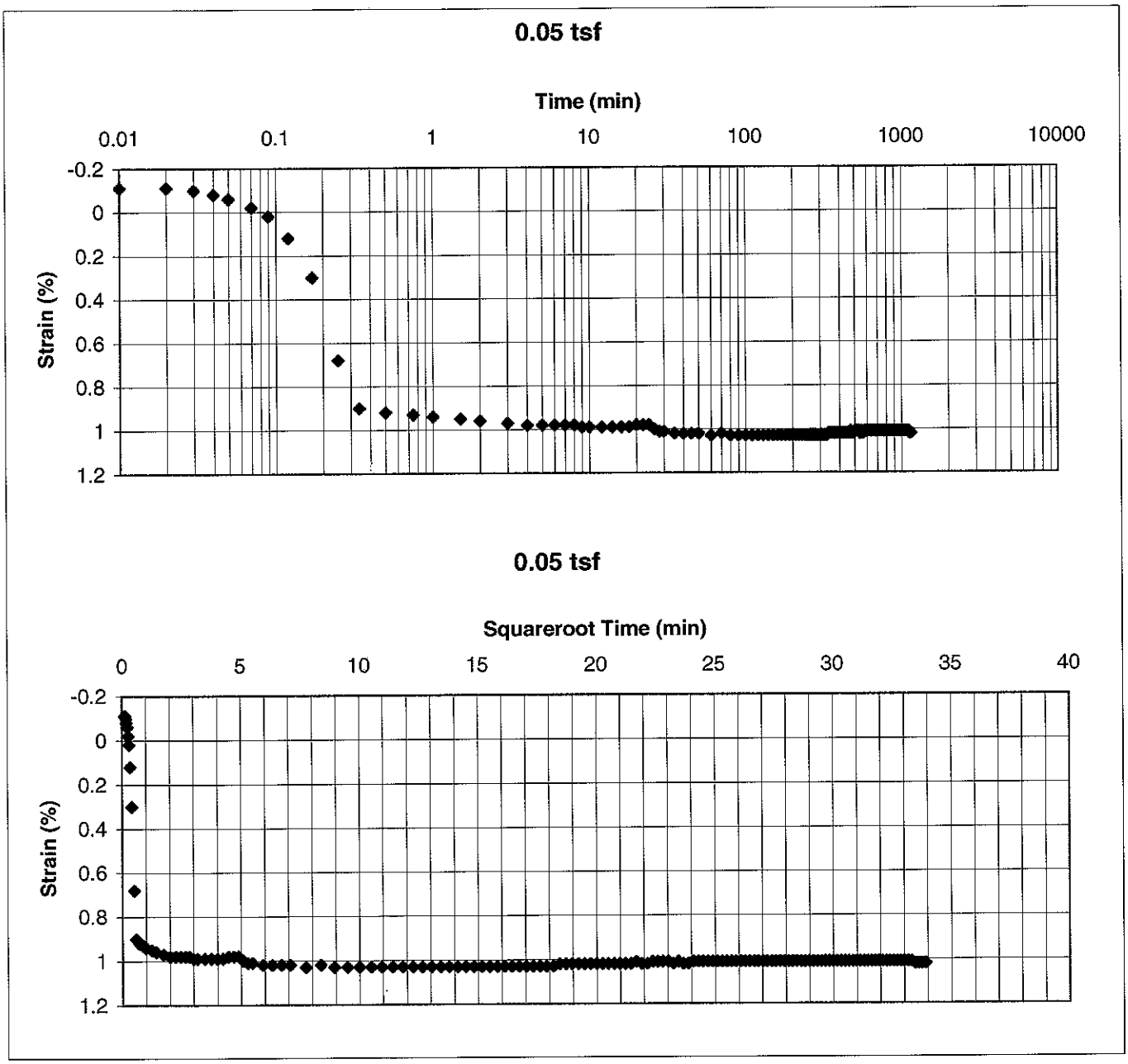
Location: Syracuse, NY
Tested By: md
Test Date: 05/03/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, black silt
Remarks: System P

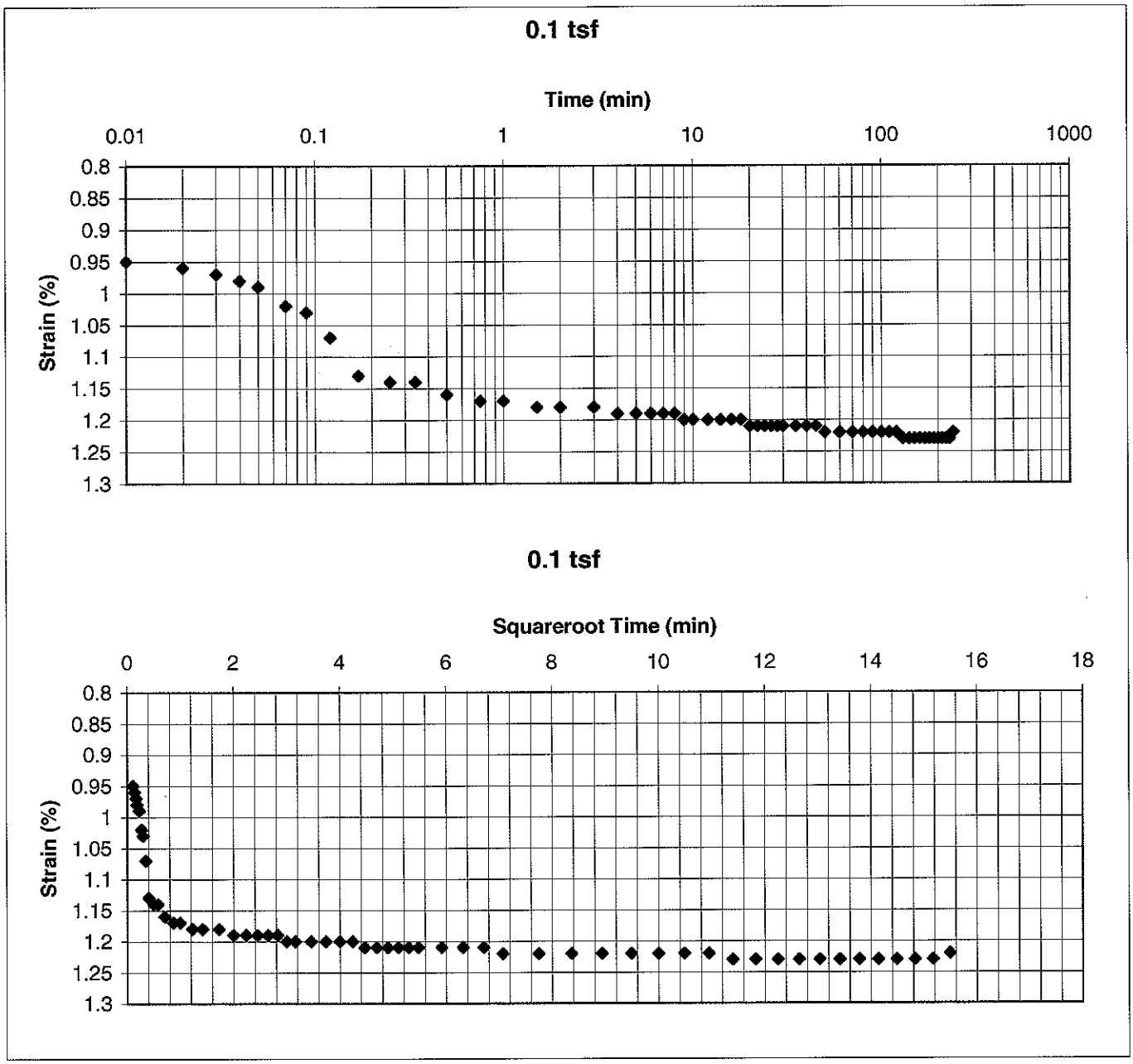
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0.03613	4.577	1.018	0.2	0	1.68E-01	0.00E+00	1.68E-01
2	0.1	0.04342	4.565	1.223	0.1	0.1	3.18E-01	3.24E-01	3.21E-01
3	0.125	0.04899	4.557	1.380	7.9	0	5.14E-03	0.00E+00	5.14E-03
4	0.25	1.475	2.293	41.549	42.4	0	6.02E-04	0.00E+00	6.02E-04
5	0.5	1.9251	1.5755	54.228	39.7	38.3	1.71E-03	1.77E-03	1.74E-03
6	1	2.15	1.2737	60.563	11.9	12.4	4.98E-03	4.78E-03	4.88E-03
7	2	2.2354	1.0824	62.969	6.9	7.3	7.93E-03	7.50E-03	7.71E-03
8	4	2.3321	0.9287	65.693	4.6	3.4	1.13E-02	1.51E-02	1.30E-02
9	1	2.3248	0.9403	65.487	0	0	1.61E+00	0.00E+00	1.61E+00
10	0.25	2.3116	0.9613	65.115	3	0	1.69E-02	0.00E+00	1.69E-02

CONSOLIDATION TEST DATA
TIME CURVES



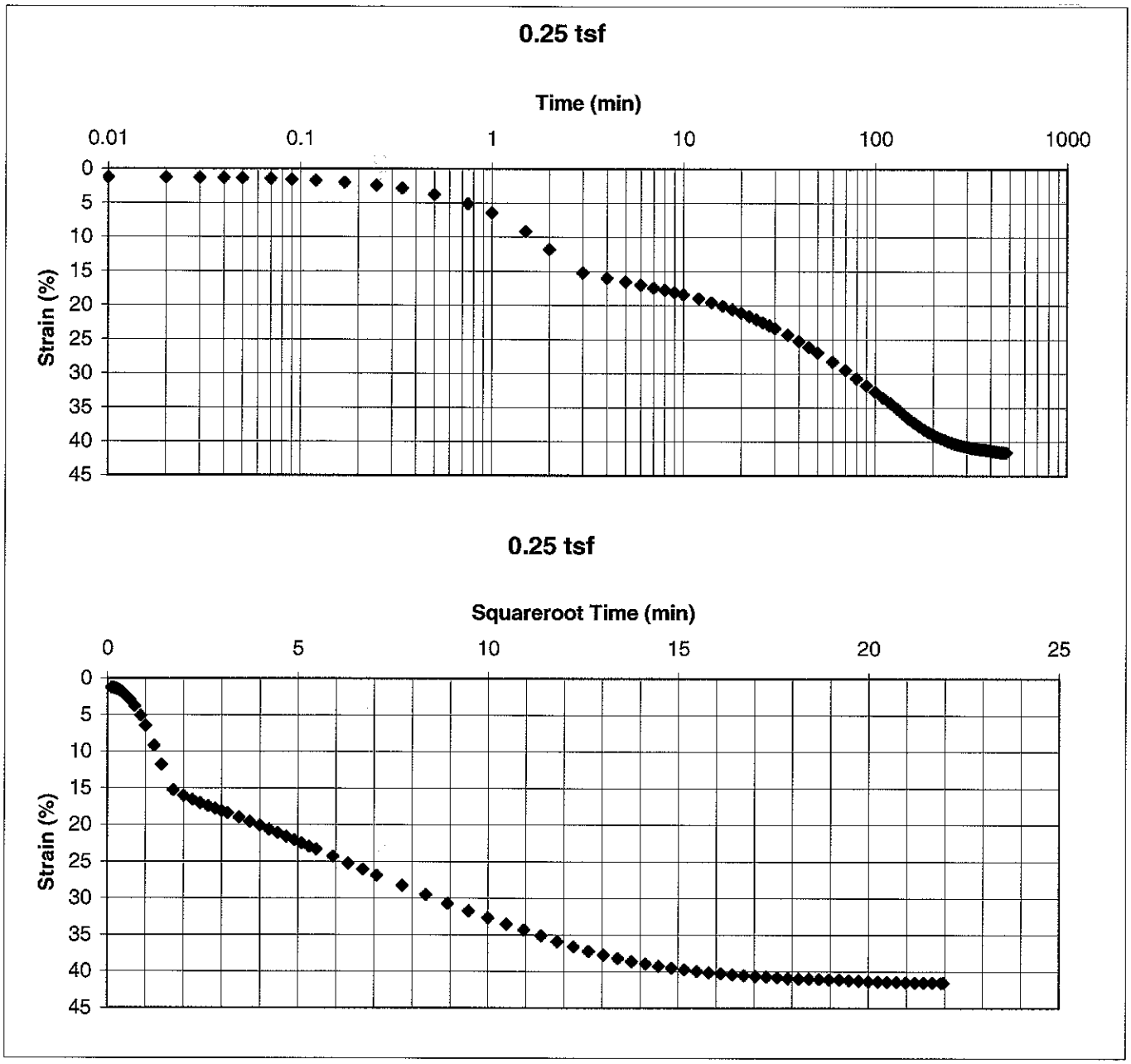
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



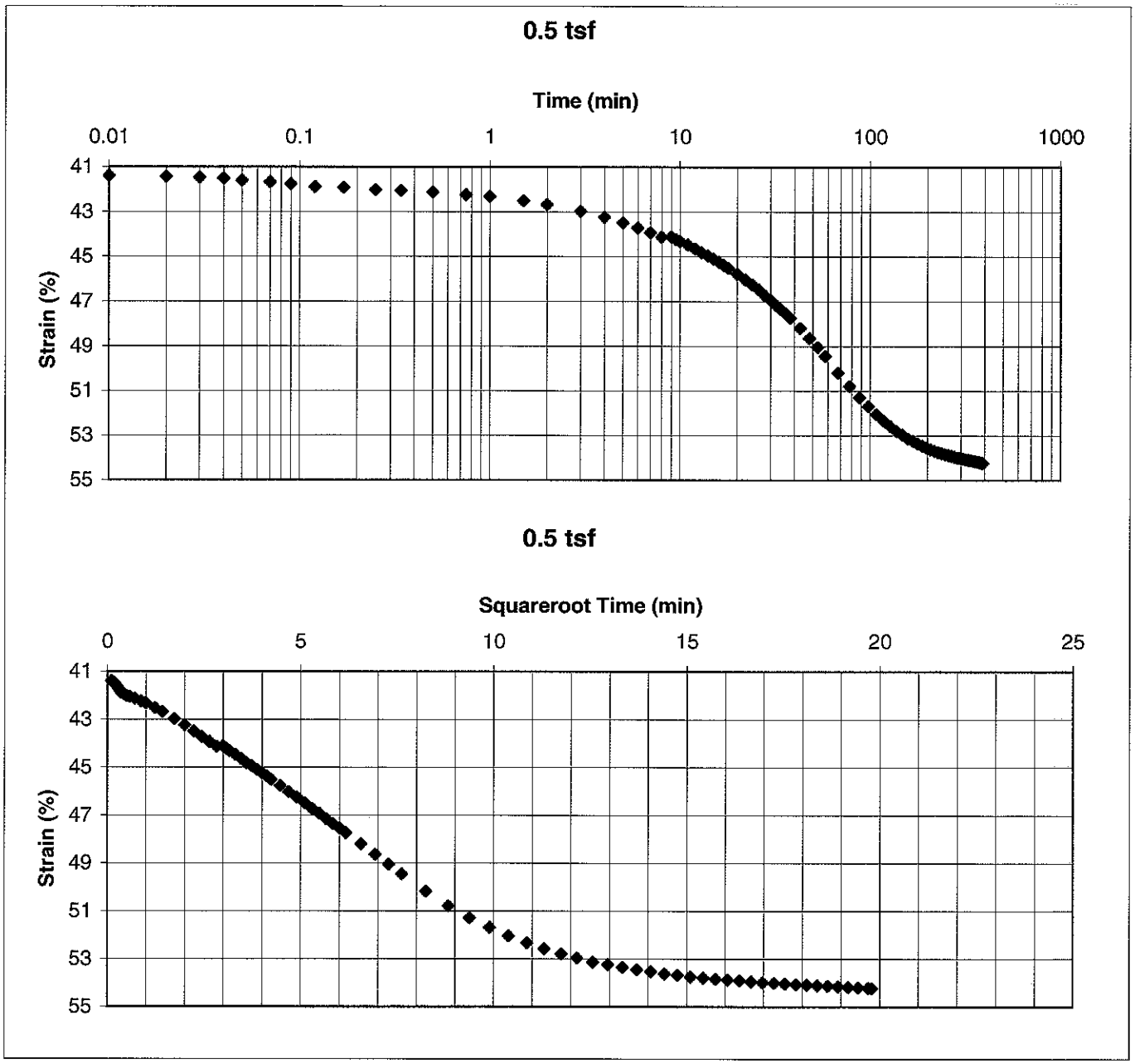
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



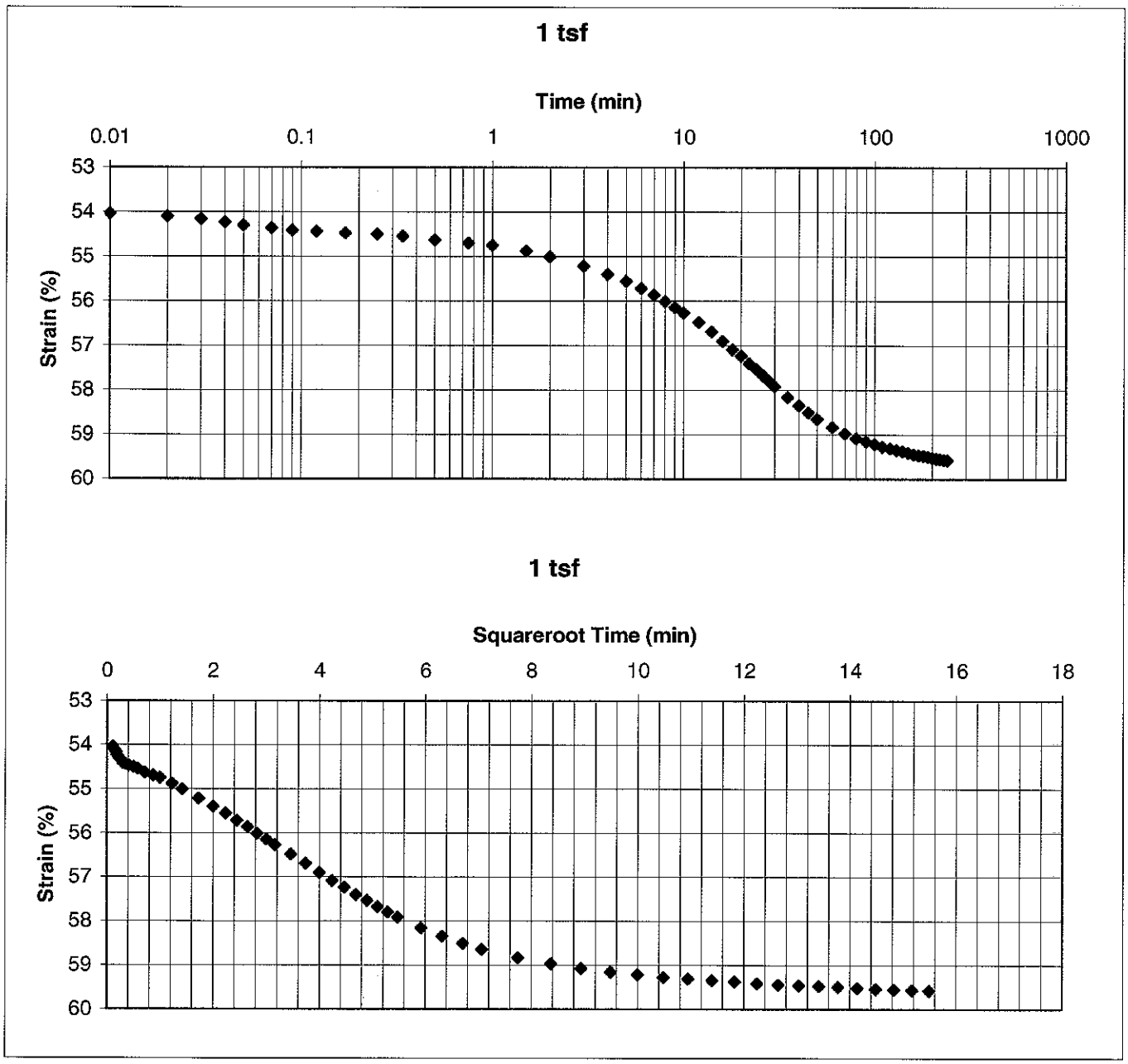
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



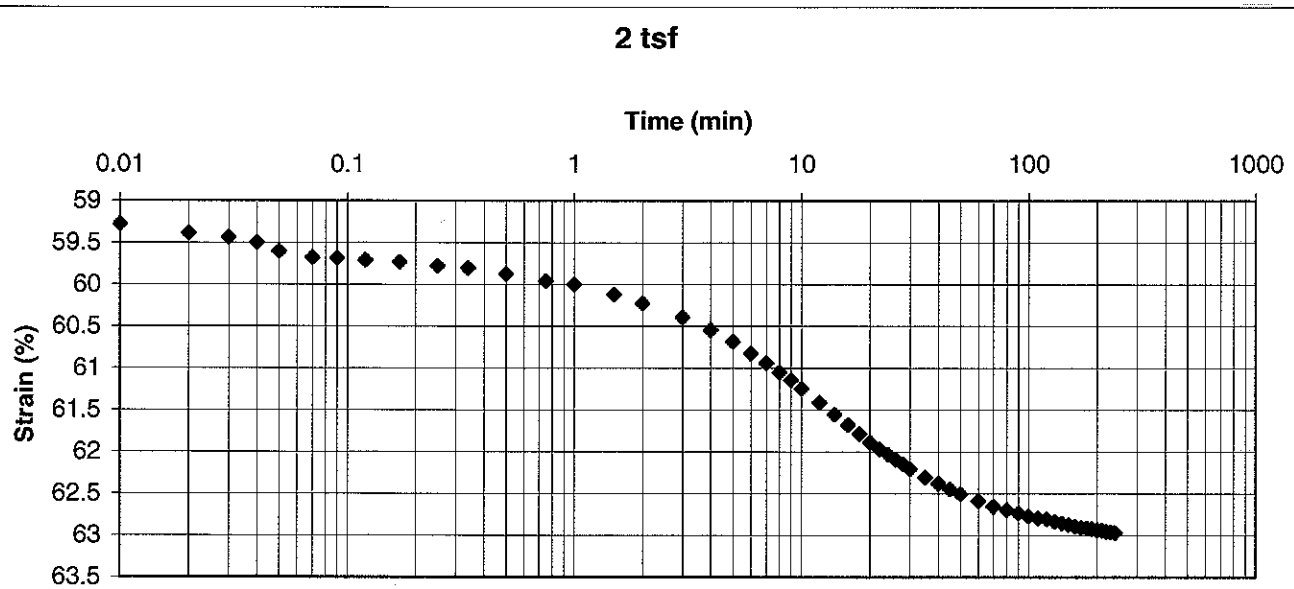
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

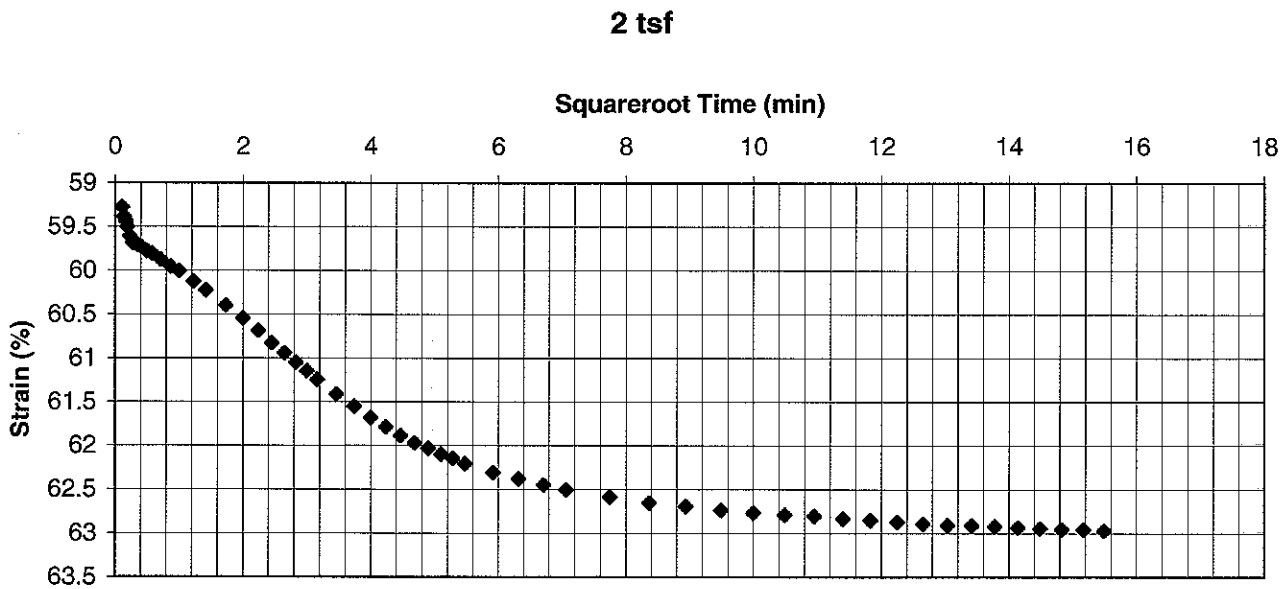
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

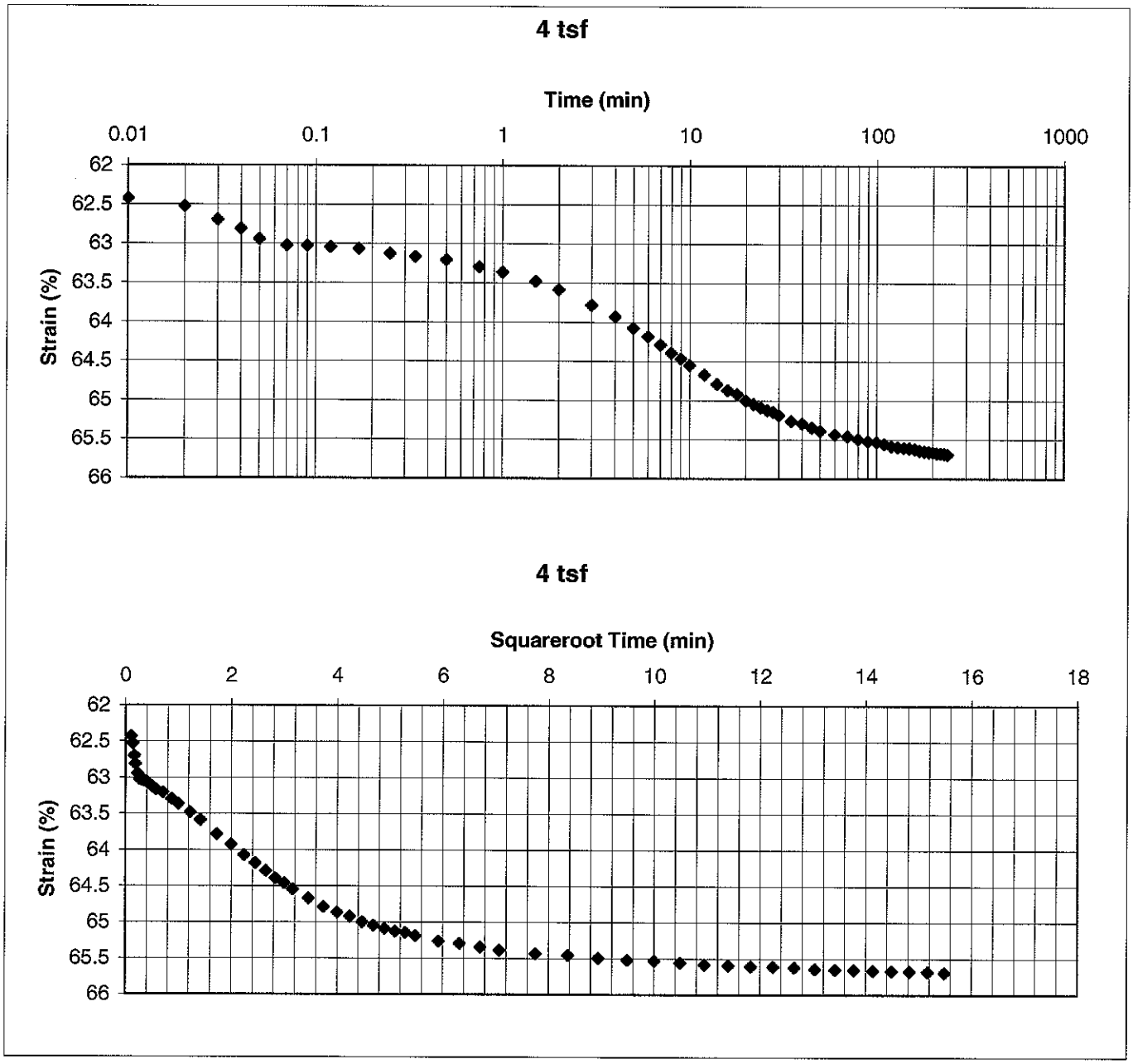
CONSOLIDATION TEST DATA
TIME CURVES





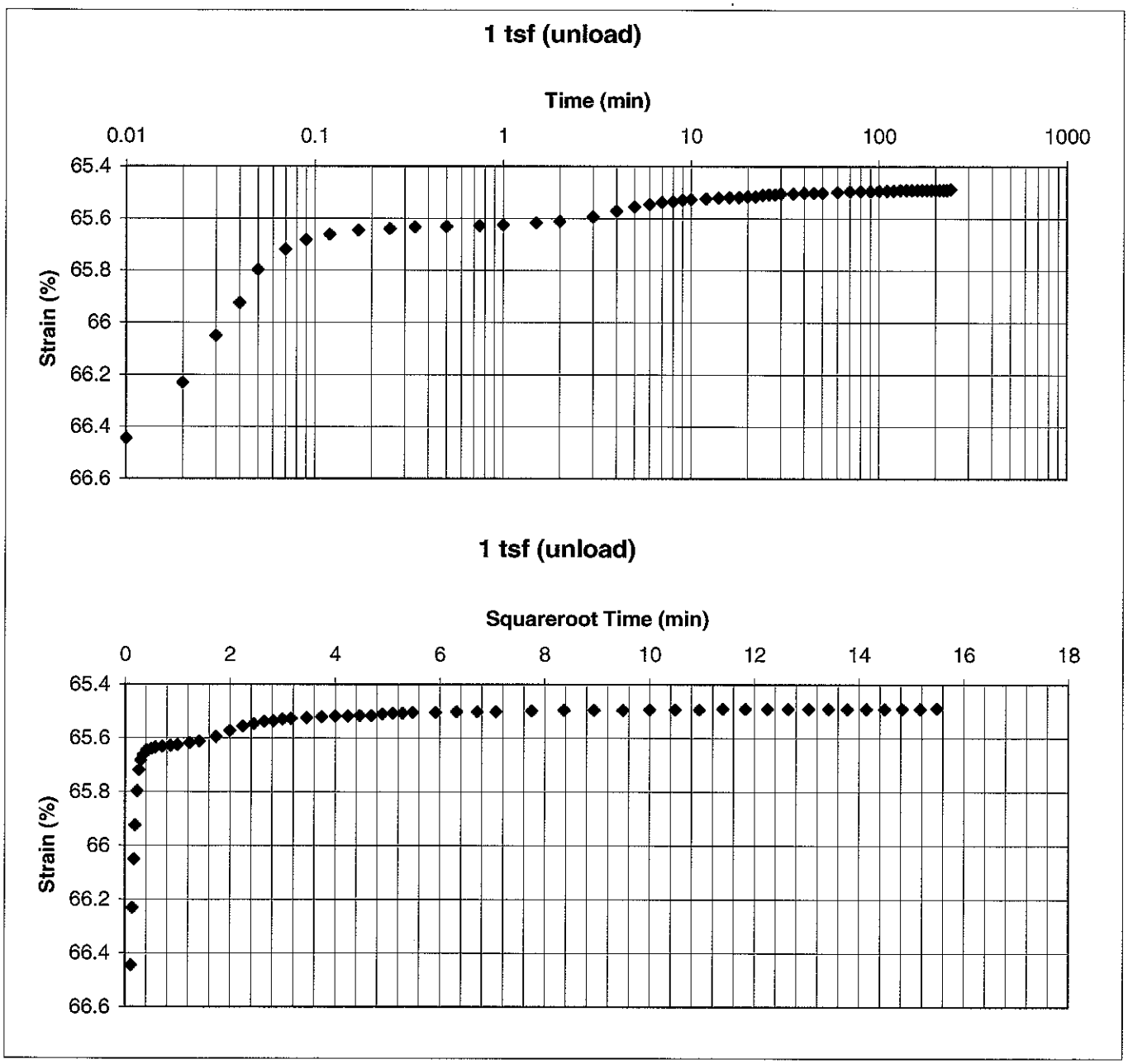
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



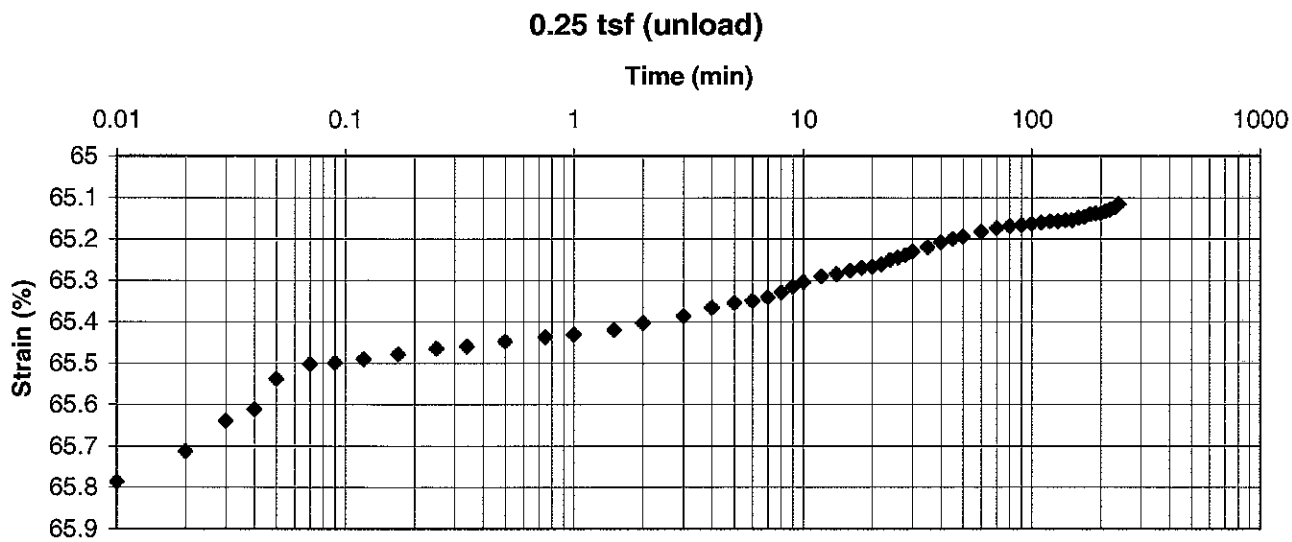
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

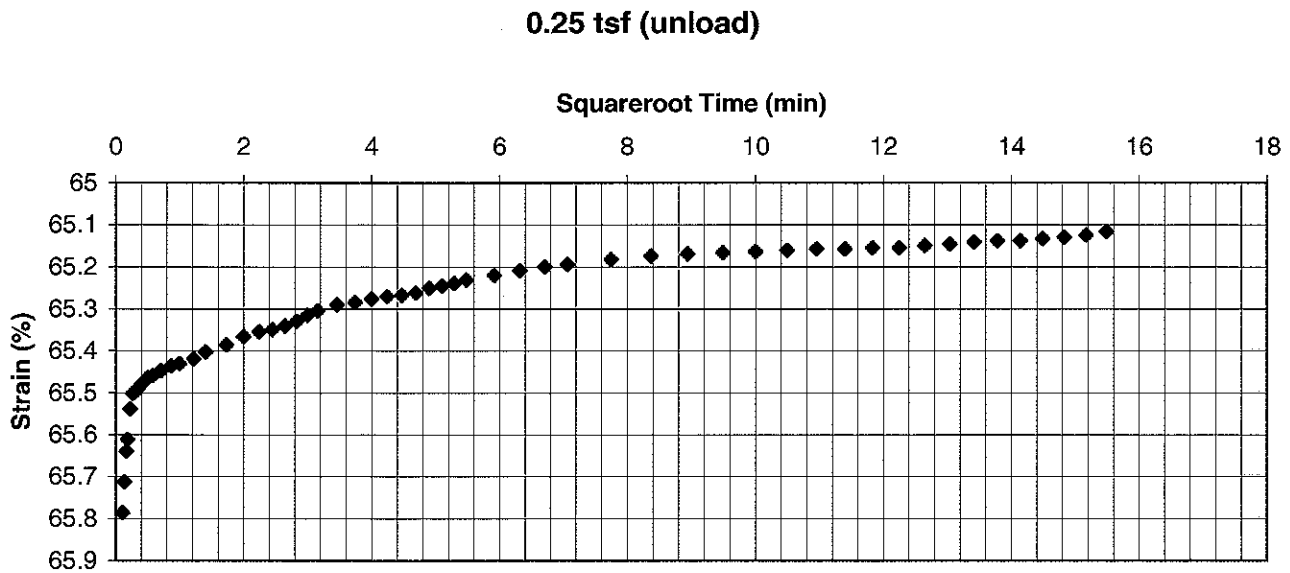
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60098	Test Date:	5/3/2007	Depth:	---
	Test No.: CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, black silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





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Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	60098	Test Date:	5/3/2007	Depth:	---
Test No.:	CST 16 (LC-15)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, black silt					
Remarks:					

GeoTesting express
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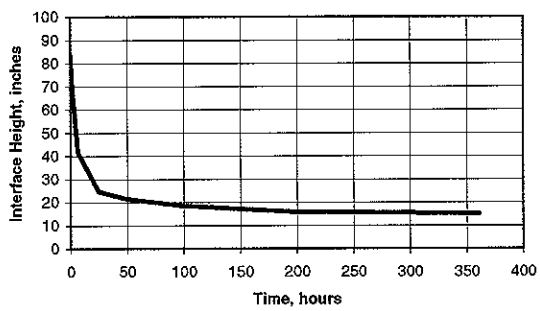
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
04/11/07	8:20 AM	0	0.00	83.3	83.3		
	8:30 AM	10	0.17	83.3	80.6		
	8:38 AM	18	0.30	83.3	79.3		
	8:48 AM	28	0.47	83.3	77.9		
	9:04 AM	44	0.73	83.3	75.75		
	10:07 AM	107	1.78	83.0	68.1		
	10:47 AM	147	2.45	83.0	64.0		
	11:03 AM	163	2.72	83.0	62.4		
	11:54 AM	214	3.57	83.0	57.6		
	12:11 PM	231	3.85	83.0	56.0		
	12:15 PM	235	3.92	82.6	55.6		
	12:40 PM	260	4.33	82.6	53.3		
	1:00 PM	280	4.67	82.6	51.9		
	1:32 PM	312	5.20	82.6	48.9		
	1:55 PM	335	5.58	82.0	47.0		
	2:20 PM	360	6.00	82.0	44.8		
	2:41 PM	381	6.35	82.0	43.3		
	3:06 PM	406	6.77	82.0	41.3		
04/12/07	9:11 AM	1491	24.85	80.9	24.5		
04/13/07	10:15 AM	2995	49.92	79.6	21.4		
04/15/07	10:30 AM	5890	98.17	78.4	18.5		
04/19/07	10:30 AM	11650	194.17	77.1	15.8		
04/26/07	9:15 AM	21655	360.92	75.4	15		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	184	98	40									
Wet Sample + Tare Wt, g	120.42	128.87	131.85									
Dried Sample + Tare Wt, g	72.22	73.76	73.51									
Tare Wt, g	66.57	67.43	66.54									
Water Wt, g	48.20	55.11	58.34									
Dried Sample Wt, g	5.65	6.33	6.97									
Salt Wt, g	0.030	0.034	0.037									
Particulates Wt, g	5.620	6.296	6.933									
Particulates Conc. (g/L)	111.4	109.2	113.5									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	169											
Wet Sample + Tare Wt, g	112.72											
Dried Sample + Tare Wt, g	70.00											
Tare Wt, g	66.98											
Water Wt, g	42.72											
Dried Sample Wt, g	3.02											
Salt Wt, g	0.027											
Particulates Wt, g	2.993											
Particulates Conc. (g/L)	68.2											

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	74	166										
Wet Sample + Tare Wt, g	104.65	105.85										
Dried Sample + Tare Wt, g	67.87	66.69										
Tare Wt, g	67.83	66.64										
Water Wt, g	36.78	39.16										
Dried Sample Wt, g	0.04	0.05										
Salt Wt, g	0.023	0.025										
Particulates Wt, g	0.017	0.025										
Particulates Conc. (g/L)	0.5	0.7										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	79	193	66	106								
Wet Sample + Tare Wt, g	107.04	110.05	112.99	115.35								
Dried Sample + Tare Wt, g	67.85	66.92	67.77	67.29								
Tare Wt, g	67.82	66.89	67.74	67.24								
Water Wt, g	39.19	43.13	45.22	48.06								
Dried Sample Wt, g	0.03	0.03	0.03	0.05								
Salt Wt, g	0.025	0.027	0.028	0.030								
Particulates Wt, g	0.005	0.003	0.002	0.020								
Particulates Conc. (g/L)	0.1	0.1	0.0	0.4								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	98A	192	38	95	39	97						
Wet Sample + Tare Wt, g	105.25	108.72	113.12	115.51	113.47	110.69						
Dried Sample + Tare Wt, g	67.43	67.40	66.27	66.09	67.98	67.41						
Tare Wt, g	67.37	67.32	66.18	66.00	67.91	67.35						
Water Wt, g	37.82	41.32	46.85	49.42	45.49	43.28						
Dried Sample Wt, g	0.06	0.08	0.09	0.09	0.07	0.06						
Salt Wt, g	0.024	0.026	0.029	0.031	0.028	0.027						
Particulates Wt, g	0.036	0.054	0.061	0.059	0.042	0.033						
Particulates Conc. (g/L)	1.0	1.3	1.3	1.2	0.9	0.8						

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	56	29	116	209	44	24	153	169	53	51		
Wet Sample + Tare Wt, g	107.87	108.13	108.12	107.96	113.72	116.09	117.95	118.92	118.45	105.66		
Dried Sample + Tare Wt, g	67.41	68.72	68.33	67.10	65.97	67.66	68.01	67.06	67.82	67.45		
Tare Wt, g	67.34	68.66	68.26	67.05	65.90	67.59	67.94	66.99	67.75	67.39		
Water Wt, g	40.46	39.41	39.79	40.86	47.75	48.43	49.94	51.86	50.63	38.21		
Dried Sample Wt, g	0.07	0.06	0.07	0.05	0.07	0.07	0.07	0.07	0.07	0.06		
Salt Wt, g	0.025	0.025	0.025	0.026	0.030	0.030	0.031	0.032	0.032	0.024		
Particulates Wt, g	0.045	0.035	0.045	0.024	0.040	0.040	0.039	0.038	0.038	0.033		
Particulates Conc. (g/L)	1.1	0.9	1.1	0.6	0.8	0.8	0.8	0.7	0.8	0.9		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	80	171	172	45	101A	100A	203	167	188	202		
Wet Sample + Tare Wt, g	104.38	103.34	112.69	107.05	104.69	111.93	112.16	113.64	115.68	117.78		
Dried Sample + Tare Wt, g	67.47	66.76	66.86	67.87	67.35	67.57	67.19	66.81	66.83	67.40		
Tare Wt, g	67.40	66.69	66.80	67.82	67.30	67.50	67.11	66.74	66.76	67.32		
Water Wt, g	36.91	36.58	45.83	39.18	37.34	44.36	44.97	46.83	48.85	50.38		
Dried Sample Wt, g	0.07	0.07	0.06	0.05	0.05	0.07	0.08	0.07	0.07	0.08		
Salt Wt, g	0.023	0.023	0.029	0.025	0.023	0.028	0.028	0.029	0.031	0.032		
Particulates Wt, g	0.047	0.047	0.031	0.025	0.027	0.042	0.052	0.041	0.039	0.048		
Particulates Conc. (g/L)	1.3	1.3	0.7	0.7	0.7	1.0	1.2	0.9	0.8	1.0		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	115	154	192	38	66	75	85	106	98A	97	
Wet Sample + Tare Wt, g		120.23	114.16	115.72	124.22	122.11	122.90	150.44	132.22	115.05	128.75	
Dried Sample + Tare Wt, g		66.12	67.36	67.41	66.29	67.82	68.21	67.80	67.33	67.47	67.45	
Tare Wt, g		66.04	67.29	67.33	66.22	67.74	68.16	67.67	67.24	67.41	67.37	
Water Wt, g		54.11	46.80	48.31	57.93	54.29	54.69	82.64	64.89	47.58	61.30	
Dried Sample Wt, g		0.08	0.07	0.08	0.07	0.08	0.05	0.13	0.09	0.06	0.08	
Salt Wt, g		0.034	0.029	0.030	0.036	0.034	0.034	0.052	0.041	0.030	0.038	
Particulates Wt, g		0.046	0.041	0.050	0.034	0.046	0.016	0.078	0.049	0.030	0.042	
Particulates Conc. (g/L)		0.9	0.9	1.0	0.6	0.8	0.3	0.9	0.8	0.6	0.7	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	57	107A	67	185	191	200	193	170	161	152	
Wet Sample + Tare Wt, g		105.38	104.91	109.00	106.63	112.30	111.29	115.51	118.31	103.91	135.82	
Dried Sample + Tare Wt, g		67.67	67.92	67.98	66.70	66.90	67.61	66.94	68.17	66.51	68.10	
Tare Wt, g		67.61	67.85	67.92	66.64	66.83	67.54	66.88	68.11	66.46	67.97	
Water Wt, g		37.71	36.99	41.02	39.93	45.40	43.68	48.57	50.14	37.40	67.72	
Dried Sample Wt, g		0.06	0.07	0.06	0.06	0.07	0.07	0.06	0.06	0.05	0.13	
Salt Wt, g		0.024	0.023	0.026	0.025	0.028	0.027	0.030	0.031	0.023	0.042	
Particulates Wt, g		0.036	0.047	0.034	0.035	0.042	0.043	0.030	0.029	0.027	0.088	
Particulates Conc. (g/L)		1.0	1.3	0.8	0.9	0.9	1.0	0.6	0.6	0.7	1.3	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		89	43	99	74	72	48	29	16	121	106	xxx
Wet Sample + Tare Wt, g		104.99	106.68	114.09	105.23	106.83	110.77	117.6	112.07	119.38	116.09	
Dried Sample + Tare Wt, g		66.2	67.57	67.88	67.85	67.62	68.04	68.72	67.39	68.14	67.26	
Tare Wt, g		66.17	67.56	67.84	67.81	67.56	68	68.66	67.35	68.09	67.22	
Water Wt, g		38.79	39.11	46.21	37.38	39.21	42.73	48.88	44.68	51.24	48.83	
Dried Sample Wt, g		0.03	0.01	0.04	0.04	0.06	0.04	0.06	0.04	0.05	0.04	
Salt Wt, g		0.024	0.024	0.029	0.023	0.025	0.027	0.031	0.028	0.032	0.031	
Particulates Wt, g		0.006	-0.014	0.011	0.017	0.035	0.013	0.029	0.012	0.018	0.009	
Particulates Conc. (g/L)		0.1	-0.4	0.2	0.4	0.9	0.3	0.6	0.3	0.4	0.2	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	64											
Dry Particulates + Filter Paper Wt, g	0.1777											
Filter Paper Wt, g	0.1581											
Dry Particulates Wt, g	0.0196											
Volume (mL)	90											
Particulates TSS Conc. (mg/L)	217.778											
Turbidity (NTU)	330											

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	31	178										
Dry Particulates + Filter Paper Wt, g	0.1723	0.1710										
Filter Paper Wt, g	0.1617	0.1600										
Dry Particulates Wt, g	0.0106	0.0110										
Volume (mL)	100	98										
Particulates TSS Conc. (mg/L)	106.000	112.245										
Turbidity (NTU)	130	140										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	26	99A	35	183								
Dry Particulates + Filter Paper Wt, g	0.0854	0.1665	0.1702	0.1729								
Filter Paper Wt, g	0.0785	0.1604	0.1630	0.1653								
Dry Particulates Wt, g	0.0069	0.0061	0.0072	0.0076								
Volume (mL)	107	100	100	100								
Particulates TSS Conc. (mg/L)	64.486	61.000	72.000	76.000								
Turbidity (NTU)	65	65	75	75								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	34	92	90	93	41	42						
Dry Particulates + Filter Paper Wt, g	0.1645	0.1692	0.1671	0.1680	0.1685	0.1642						
Filter Paper Wt, g	0.1596	0.1629	0.1622	0.1611	0.1619	0.1574						
Dry Particulates Wt, g	0.0049	0.0063	0.0049	0.0069	0.0066	0.0068						
Volume (mL)	100	100	100	100	100	100						
Particulates TSS Conc. (mg/L)	49.000	63.000	49.000	69.000	66.000	68.000						
Turbidity (NTU)	45	50	55	55	60	55						

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	180	195	61	15	54	12	13	173	107	99		
Dry Particulates + Filter Paper Wt, g	0.1608	0.1711	0.1805	0.1693	0.1704	0.1707	0.1752	0.1749	0.1727	0.0955		
Filter Paper Wt, g	0.1567	0.1660	0.1751	0.1641	0.1649	0.1657	0.1695	0.1694	0.1677	0.0863		
Dry Particulates Wt, g	0.0041	0.0051	0.0054	0.0052	0.0055	0.0050	0.0057	0.0055	0.0050	0.0092		
Volume (mL)	120	125	125	125	125	125	119	125	125	120		
Particulates TSS Conc. (mg/L)	34.167	40.800	43.200	41.600	44.000	40.000	47.899	44.000	40.000	76.667		
Turbidity (NTU)	45.0	50	50	50	50	55	55	60	55	70		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	90	92	34	183	93	26	108	99A	1	19		
Dry Particulates + Filter Paper Wt, g	0.1612	0.0905	0.1703	0.1688	0.1613	0.1683	0.1738	0.1705	0.1786	---		
Filter Paper Wt, g	0.1563	0.0782	0.1656	0.1641	0.1570	0.1640	0.1692	0.1660	0.1747	---		
Dry Particulates Wt, g	0.0049	0.0123	0.0047	0.0047	0.0043	0.0043	0.0046	0.0045	0.0039	---		
Volume (mL)	120	120	130	130	130	130	130	130	130	---		
Particulates TSS Conc. (mg/L)	40.833	102.500	36.154	36.154	33.077	33.077	35.385	34.615	30.000	---		
Turbidity (NTU)	55	50	45	45	45	45	45	45	50	50		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	189	101	166	64	3	175	162	41	155	110		
Dry Particulates + Filter Paper Wt, g	0.1620	0.2610	0.2392	0.2508	0.2453	0.2482	0.2471	0.2536	0.2406	0.2464		
Filter Paper Wt, g	0.1587	0.2567	0.2358	0.2466	0.2417	0.2448	0.2444	0.2504	0.2377	0.2430		
Dry Particulates Wt, g	0.0033	0.0043	0.0034	0.0042	0.0036	0.0034	0.0027	0.0032	0.0029	0.0034		
Volume (mL)	120	124	122	127	132	124	122	129	123	134		
Particulates TSS Conc. (mg/L)	27.500	34.677	27.869	33.071	27.273	27.419	22.131	24.806	23.577	25.373		
Turbidity (NTU)	39	40	40	40	40	40	40	40	40	25		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	82	58	98A	48	198	167	13	49	154	54	
Dry Particulates + Filter Paper Wt, g		0.0827	0.1612	0.1626	0.1631	0.1642	0.1636	0.1650	0.1629	0.1651	0.1723	
Filter Paper Wt, g		0.0795	0.1576	0.1600	0.1603	0.1620	0.1612	0.1620	0.1588	0.1609	0.1666	
Dry Particulates Wt, g		0.0032	0.0036	0.0026	0.0028	0.0022	0.0024	0.0030	0.0041	0.0042	0.0057	
Volume (mL)		120	127	120	131	130	137	134	122	134	140	
Particulates TSS Conc. (mg/L)		26.667	28.346	21.667	21.374	16.923	17.518	22.388	33.607	31.343	40.714	
Turbidity (NTU)		30	30	31	30	29	30	30	34	37	45	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60099	CST Test #:	15
Test Start Date:	4/11/2007	Tested By:	md
Test Start Time:	8:20	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		82	58	25	13	198	98A	39	49	63	154	
Dry Particulates + Filter Paper Wt, g		0.1665	0.1697	0.1663	0.1594	0.1757	0.1781	0.1664	0.1752	0.1628	0.1752	
Filter Paper Wt, g		0.1629	0.1674	0.1638	0.1556	0.1724	0.1759	0.1628	0.1719	0.1594	0.171	
Dry Particulates Wt, g		0.0036	0.0023	0.0025	0.0038	0.0033	0.0022	0.0036	0.0033	0.0034	0.0042	
Volume (mL)		135	135	135	130	140	135	133	136	144	142	
Particulates TSS Conc. (mg/L)		26.667	17.037	18.519	29.231	23.571	16.296	27.068	24.265	23.611	29.577	
Turbidity (NTU)		26	26	27	25	26	25	26	26	27	50	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-60099	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50280		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-60099	---	Moist, dark gray silt	50.4

Notes: Temperature of Drying : 110° Celsius

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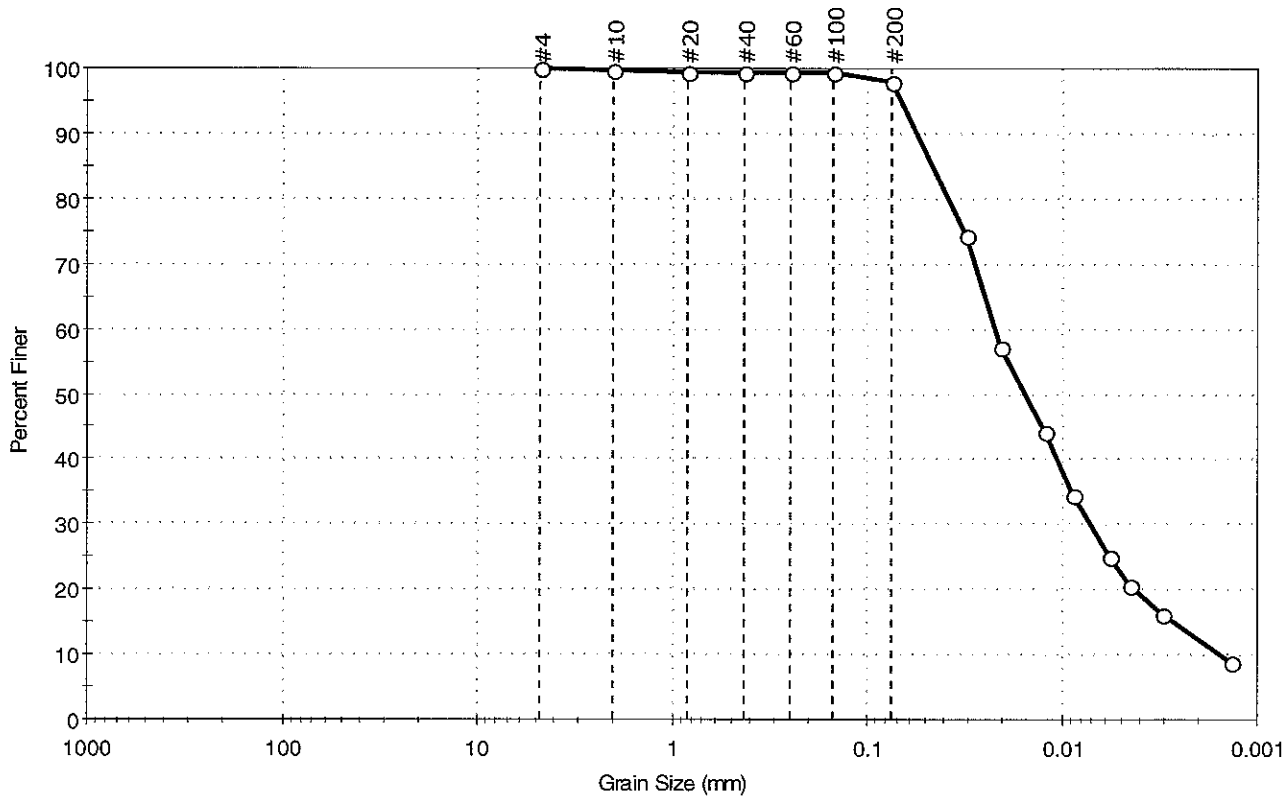
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-60099	Test Date: 04/24/07	Checked By:	jdt
Depth : ---	Test Id: 109704		
Test Comment:	---		
Sample Description:	Moist, dark gray silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.9	98.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0311	74		
---	0.0205	57		
---	0.0122	44		
---	0.0089	34		
---	0.0057	25		
---	0.0045	21		
---	0.0030	16		
---	0.0014	9		

Coefficients

D_{85} = 0.0462 mm D_{30} = 0.0072 mm
D_{60} = 0.0220 mm D_{15} = 0.0026 mm
D_{50} = 0.0154 mm D_{10} = 0.0015 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (31))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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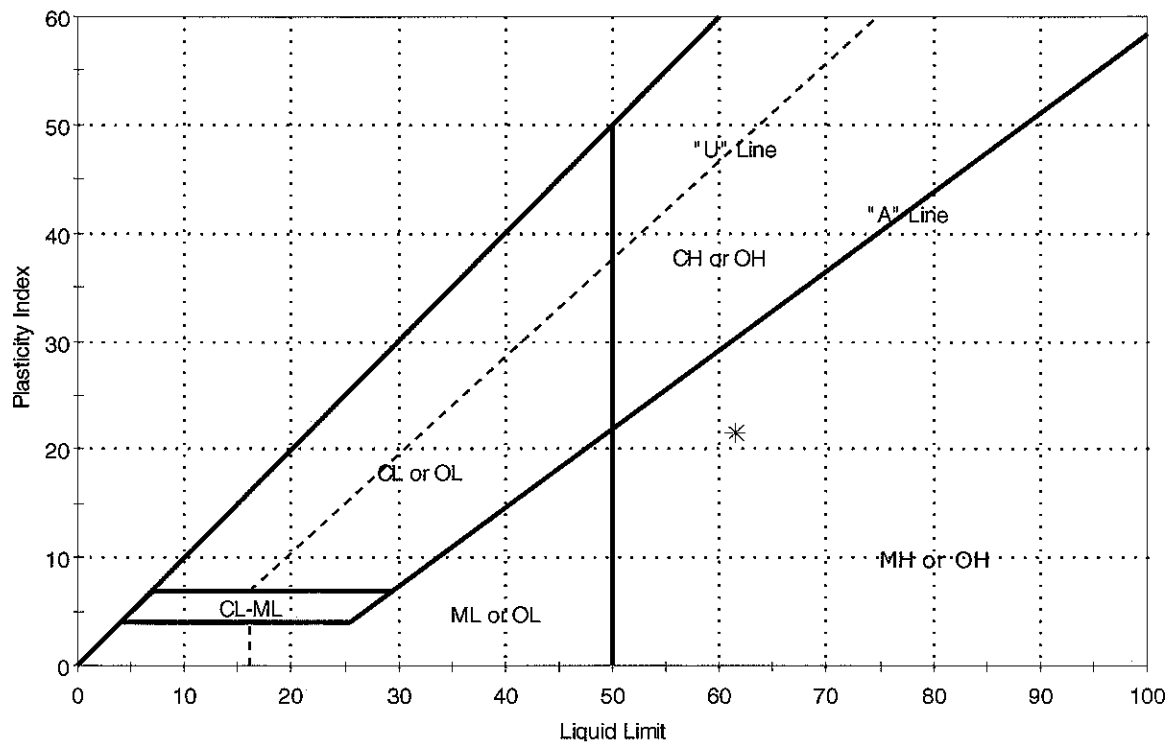
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-60099	Test Date:	05/15/07	Checked By:	jdt
Depth :	---	Test Id:	109721		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-60099	---	---	50	62	40	22	0	elastic silt (MH)

Sample Prepared using the WET method
1% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-60099	Test Date:	05/15/07	Checked By:	jdt
Depth :	---	Test Id:	109755		
Test Comment:	---				
Sample Description:	Moist, dark gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-60099	---	Moist, dark gray silt	2.6

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/30/07
Tested by:	md
Checked by:	jdt

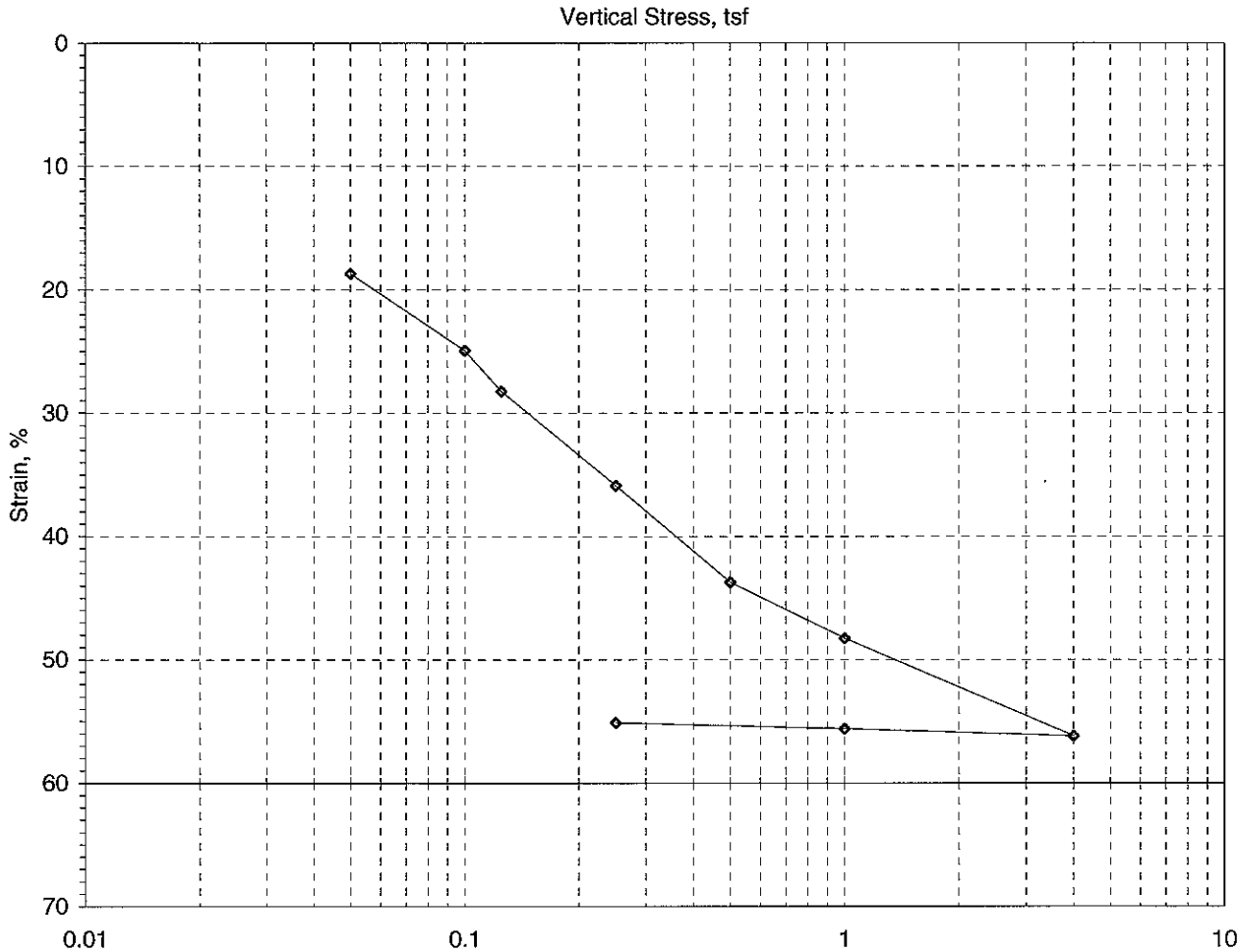
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-60099	Moist, dark gray silt	0.48	0.60	0.45	0.53	0.51

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	207	49
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	32.0	71.2
Compression Index:	---			Saturation, %	98.4	99.4
Diameter:	11.0 in	Initial Height: 9.50 in		Void Ratio	4.08	1.28
LL: 62	PL: 40	PI 22	GS: 2.60			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks: Unable to report data for the 2.0 tsf load increment				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60099
Test No.:CST 15 (LC-14)

Location: Syracuse, NY
Tested By: md
Test Date: 04/30/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: System Q

Measured Specific Gravity: 2.60
Initial Void Ratio: 4.08
Final Void Ratio: 1.28

Liquid Limit: 62
Plastic Limit: 40
Plasticity Index: 22

Initial Height: 9.5 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		163	RING		mr
Wt. Container + Wet Soil,	gm	136.61	35500	27520	208.92
Wt. Container + Dry Soil,	gm	90.57	23813	23813	142.92
Wt. Container, gm		68.3	16240	16240	8.07
Wt. Dry Soil, gm		22.27	7573.4	7573.4	134.85
Water Content, %		206.7	154.3	48.9	48.9
Void Ratio		---	4.08	1.28	---
Degree of Saturation, %		---	98.4	99.4	---
Dry Unit Weight, pcf		---	32.0	71.2	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60099
Test No.: CST 15 (LC-14)

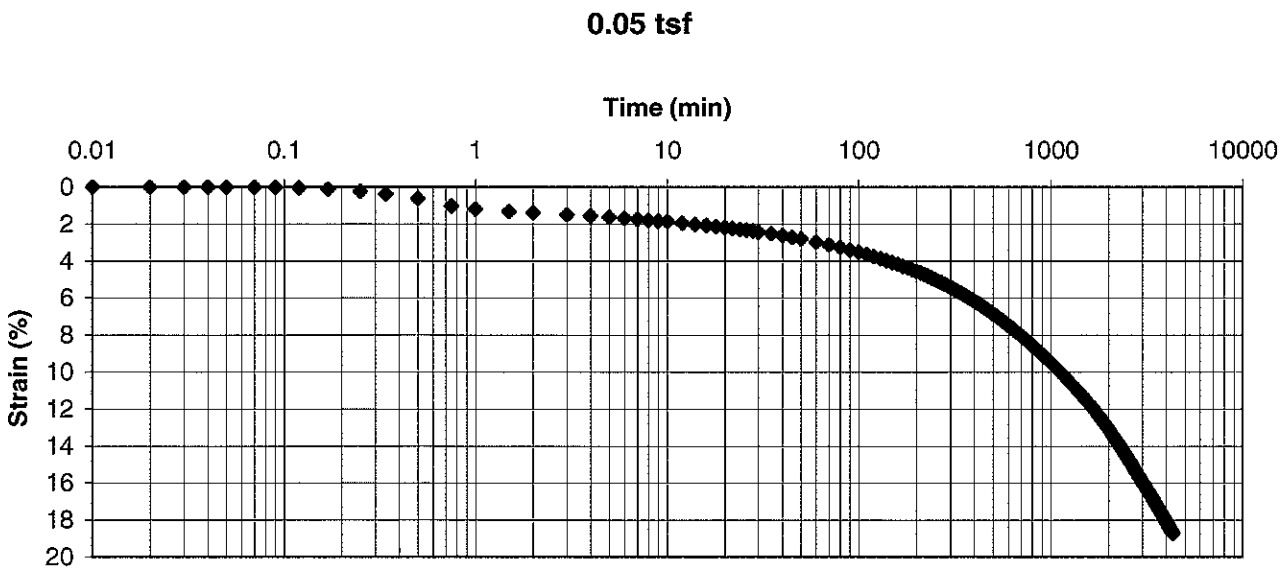
Location: Syracuse, NY
Tested By: md
Test Date: 04/30/07
Sample Type: Column

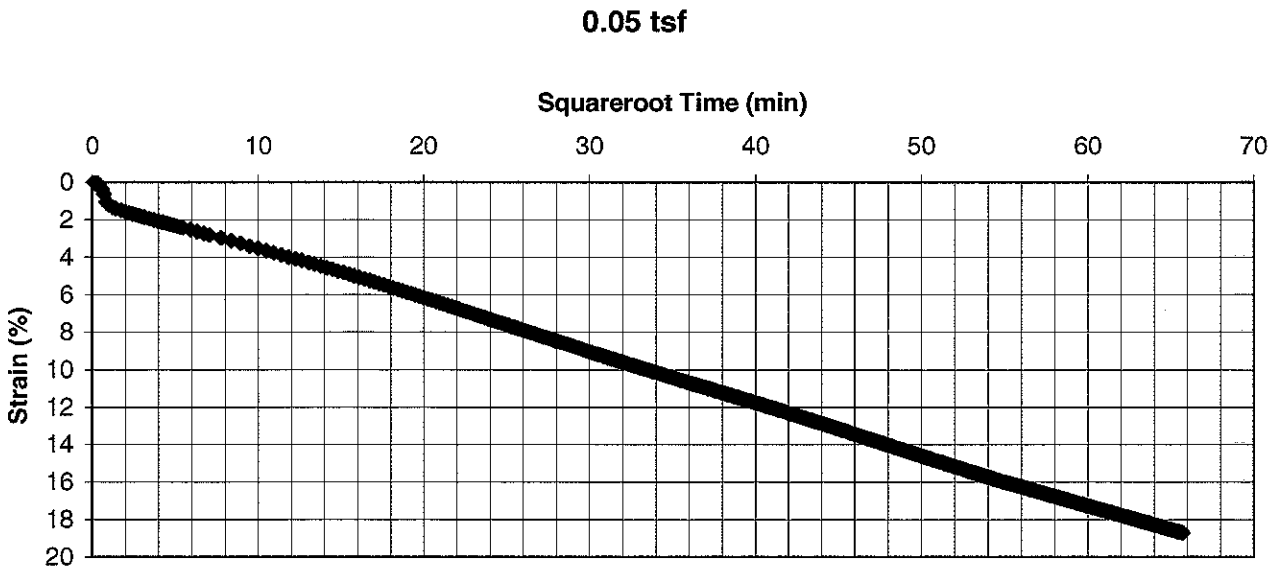
Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, dark gray silt
Remarks: System Q

	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	1.778	3.128	18.716	0	0	0.00E+00	0.00E+00	0.00E+00
2	0.1	2.3679	2.813	24.925	0	0	0.00E+00	0.00E+00	0.00E+00
3	0.125	2.68165	2.6453	28.228	0	0	0.00E+00	0.00E+00	0.00E+00
4	0.25	3.4075	2.2572	35.868	0	0	0.00E+00	0.00E+00	0.00E+00
5	0.5	4.1536	1.8584	43.722	902.3	0	2.41E-04	0.00E+00	2.41E-04
6	1	4.5846	1.6279	48.259	717.9	692.3	2.83E-04	2.94E-04	2.88E-04
8	4	5.3372	1.2256	56.181	376.4	382.7	6.41E-04	6.31E-04	6.36E-04
9	1	5.2817	1.2552	55.597	0.9	0	3.58E-01	7.66E+00	6.85E-01
10	0.25	5.2352	1.2801	55.107	19.1	0	1.63E-02	0.00E+00	1.63E-02

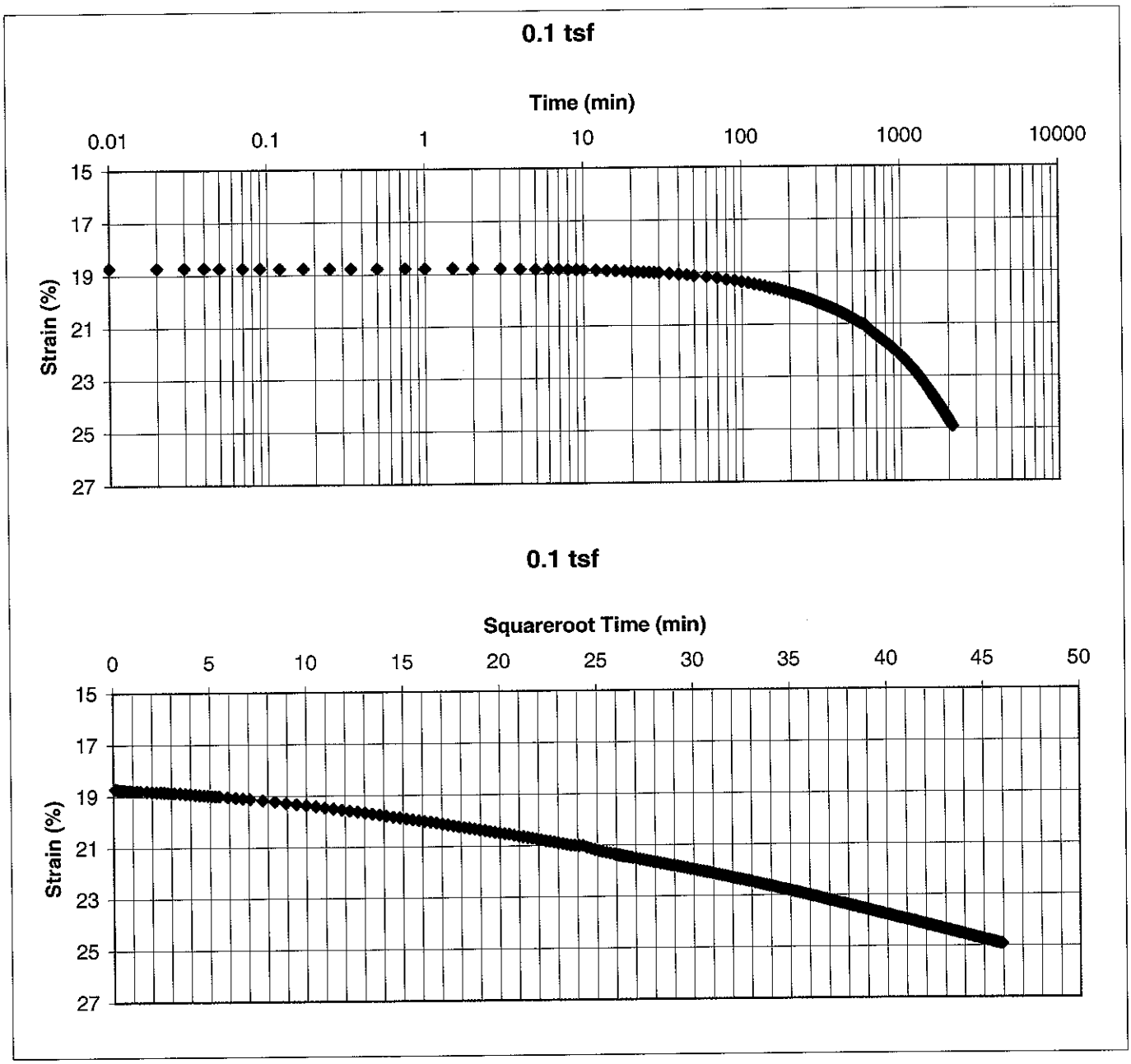
CONSOLIDATION TEST DATA
TIME CURVES





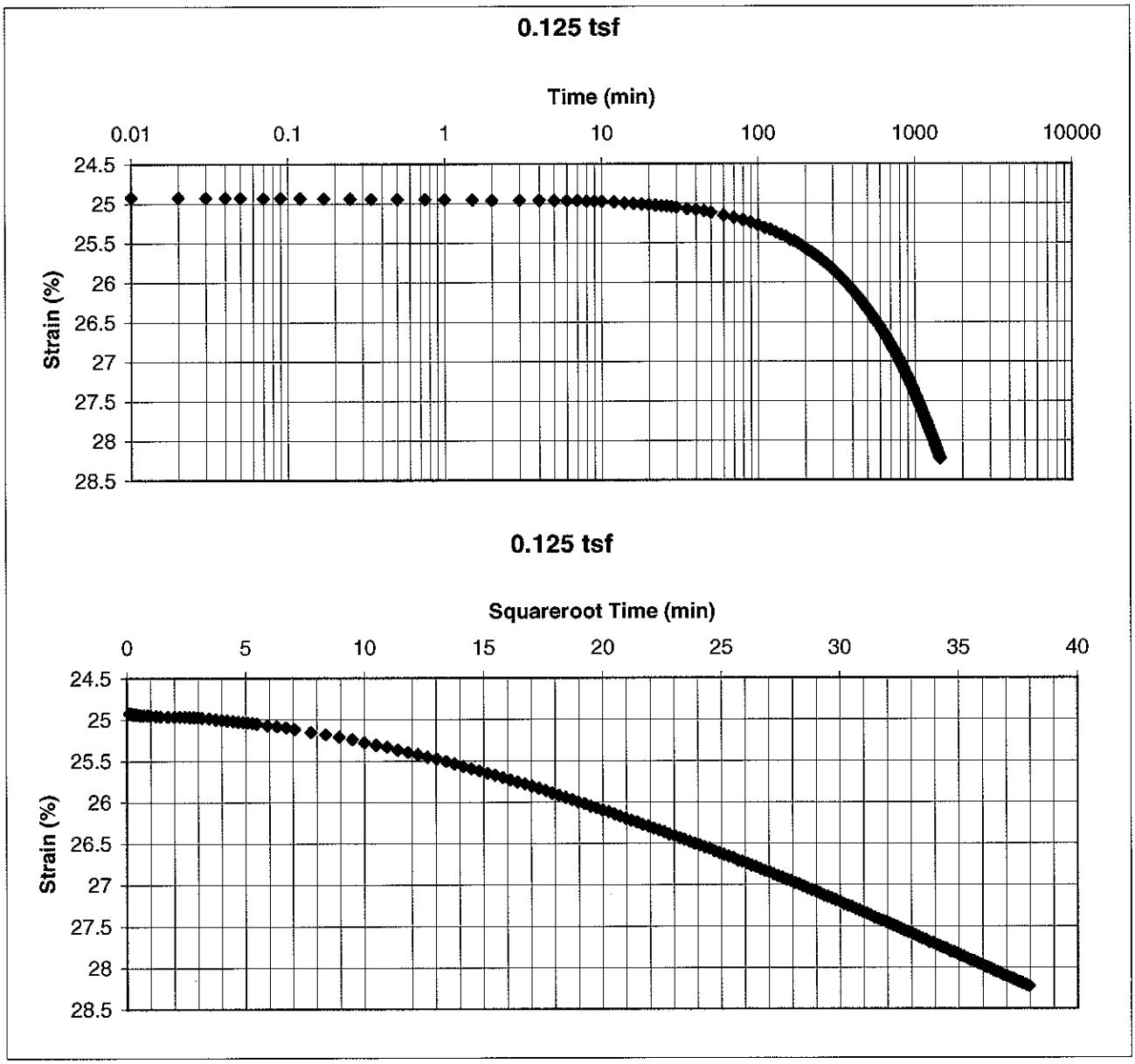
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



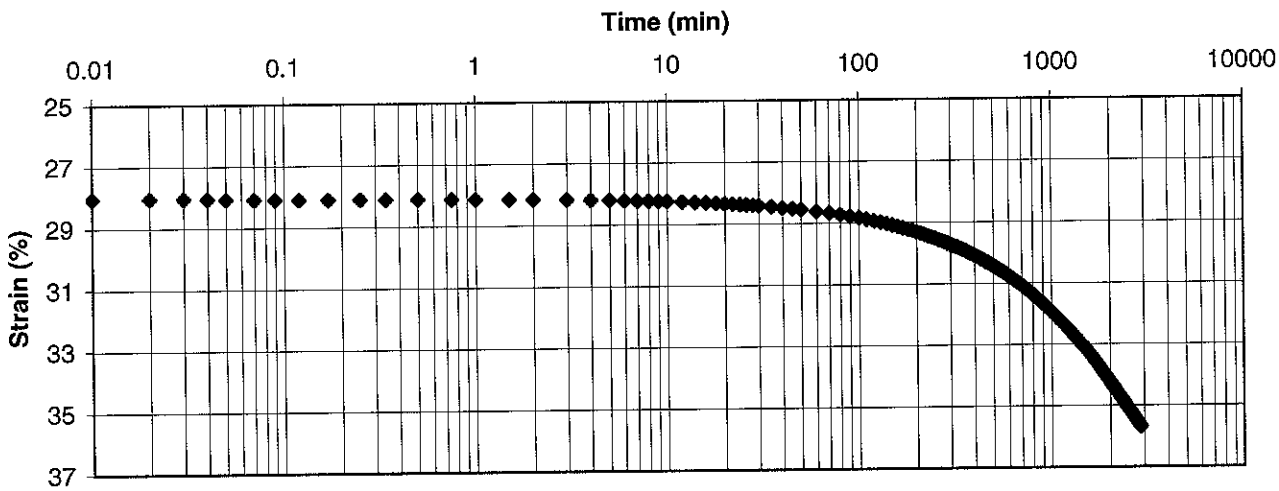
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

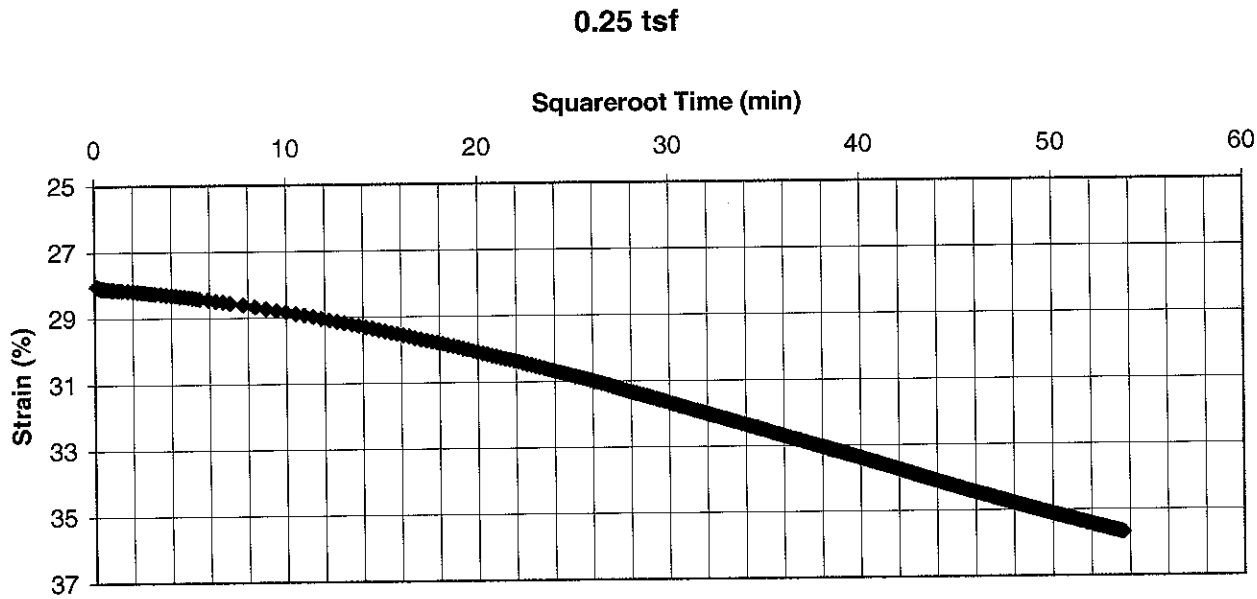
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST-15 (LC14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

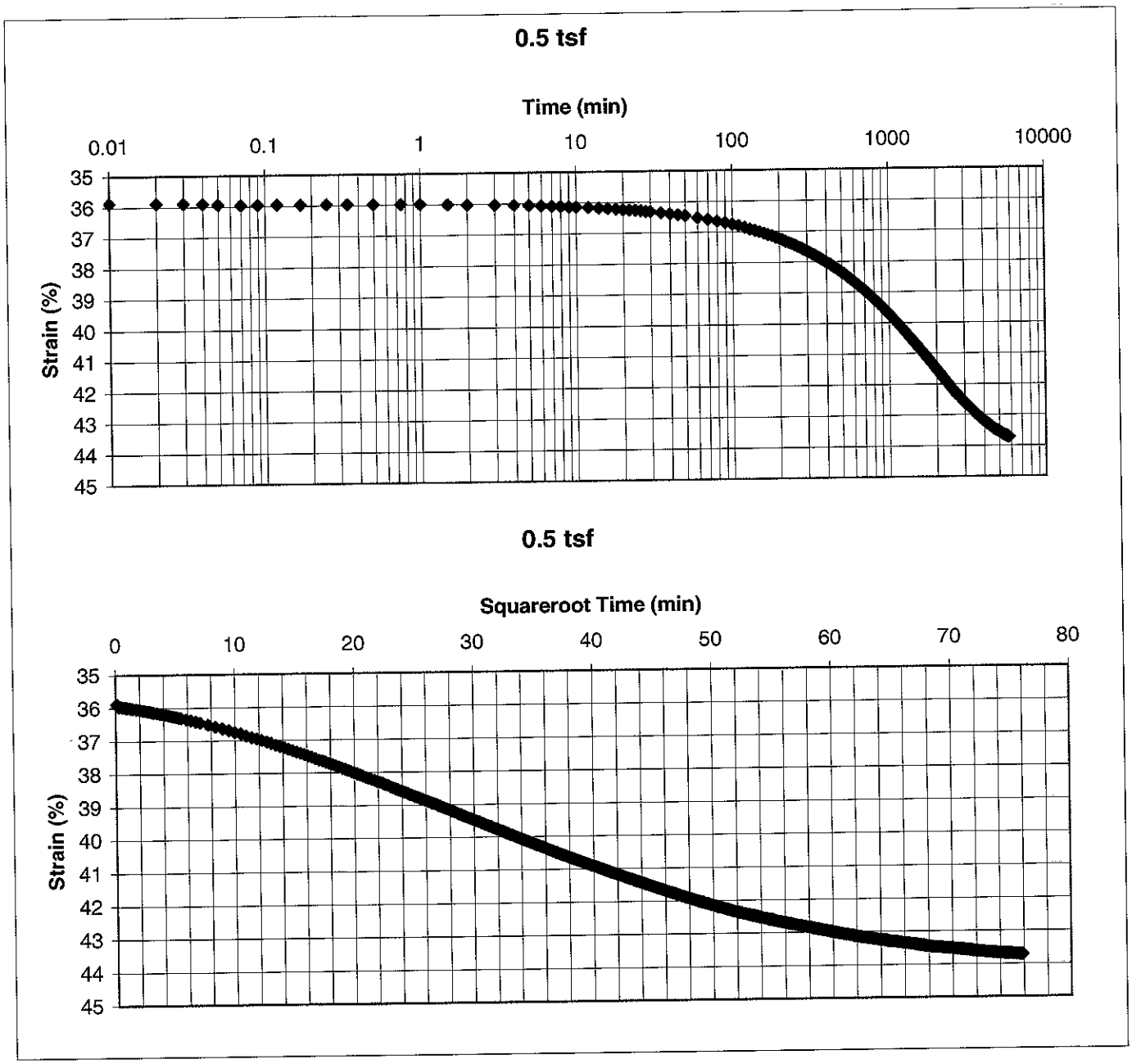
CONSOLIDATION TEST DATA
TIME CURVES





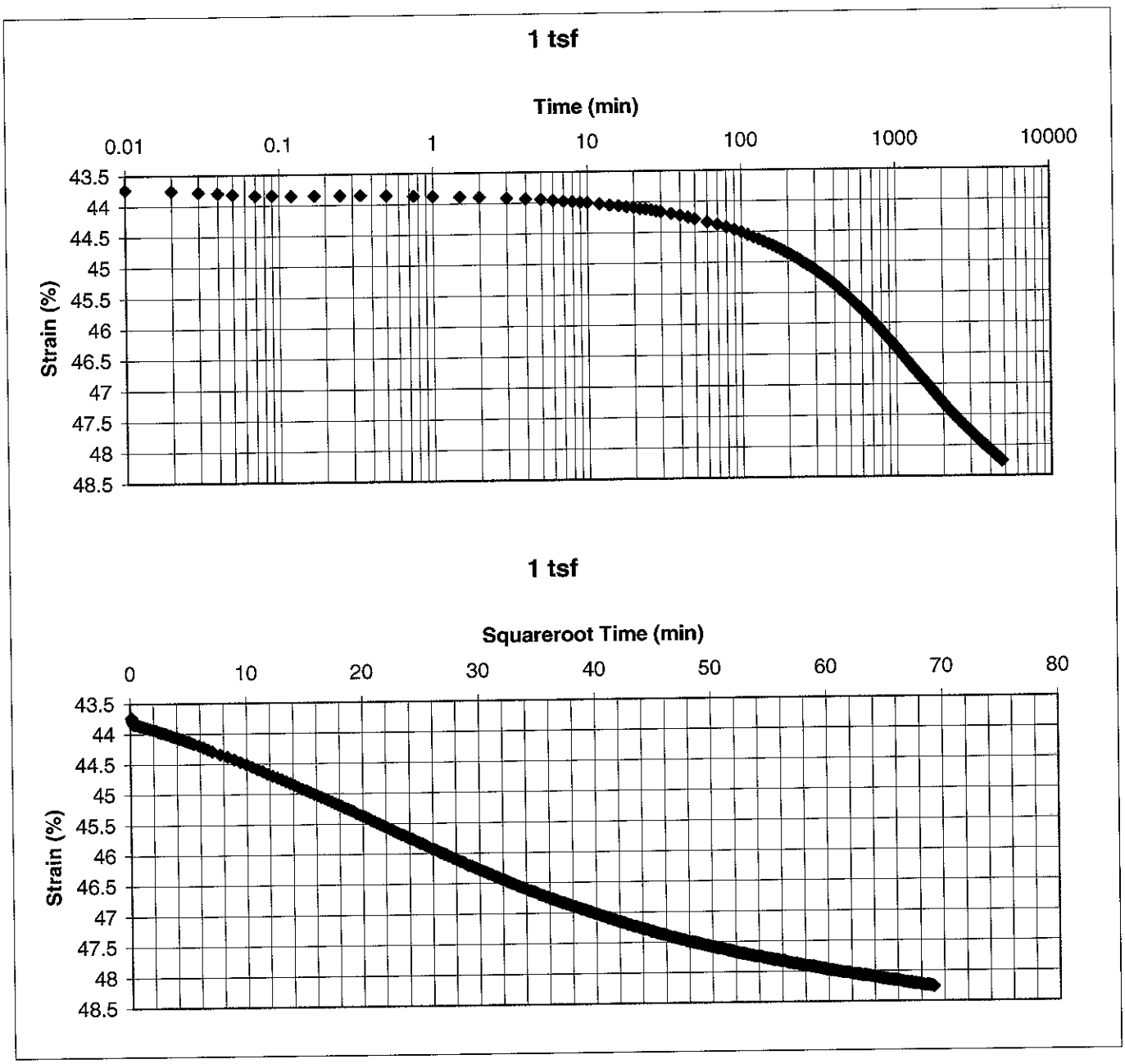
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



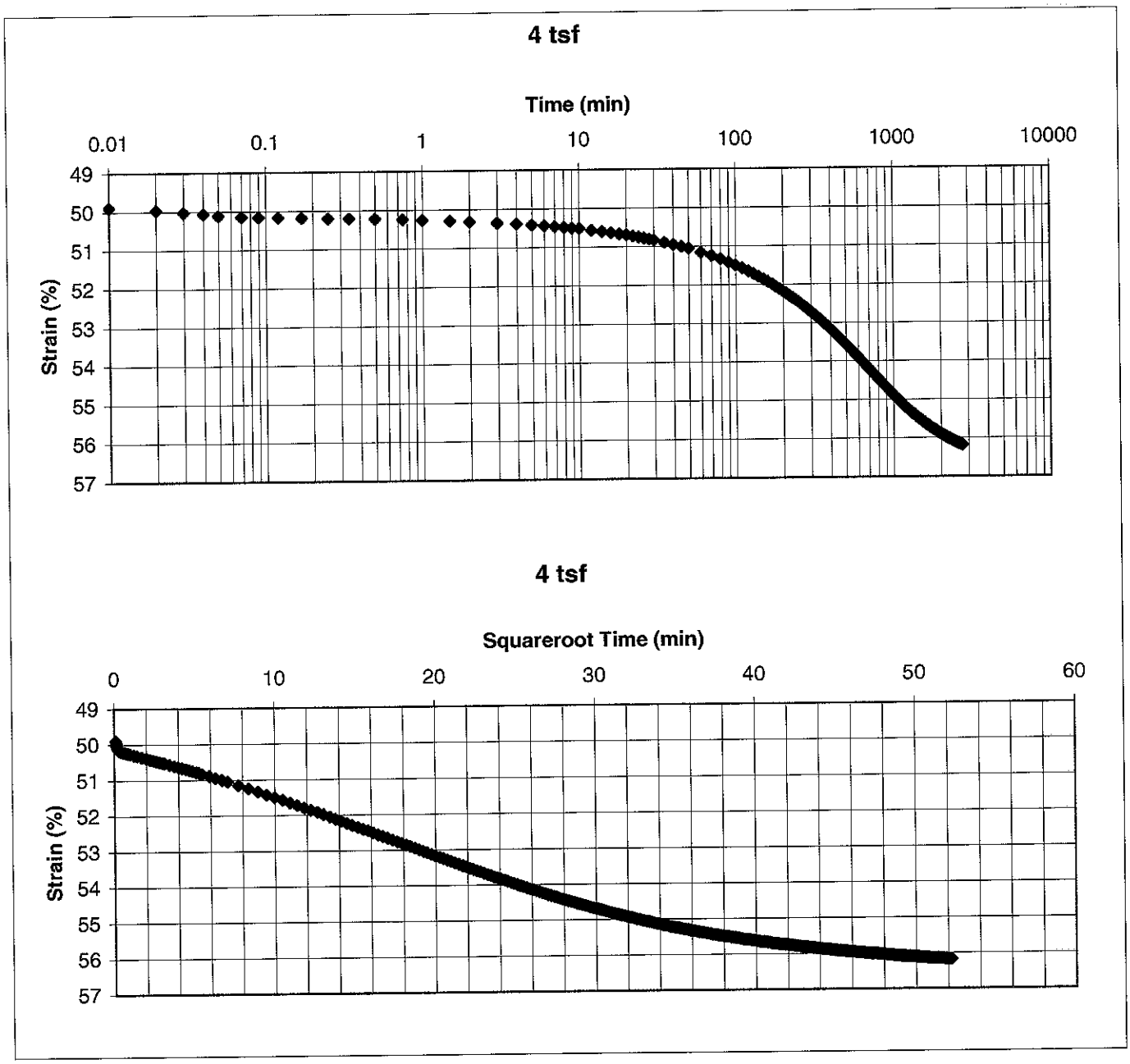
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
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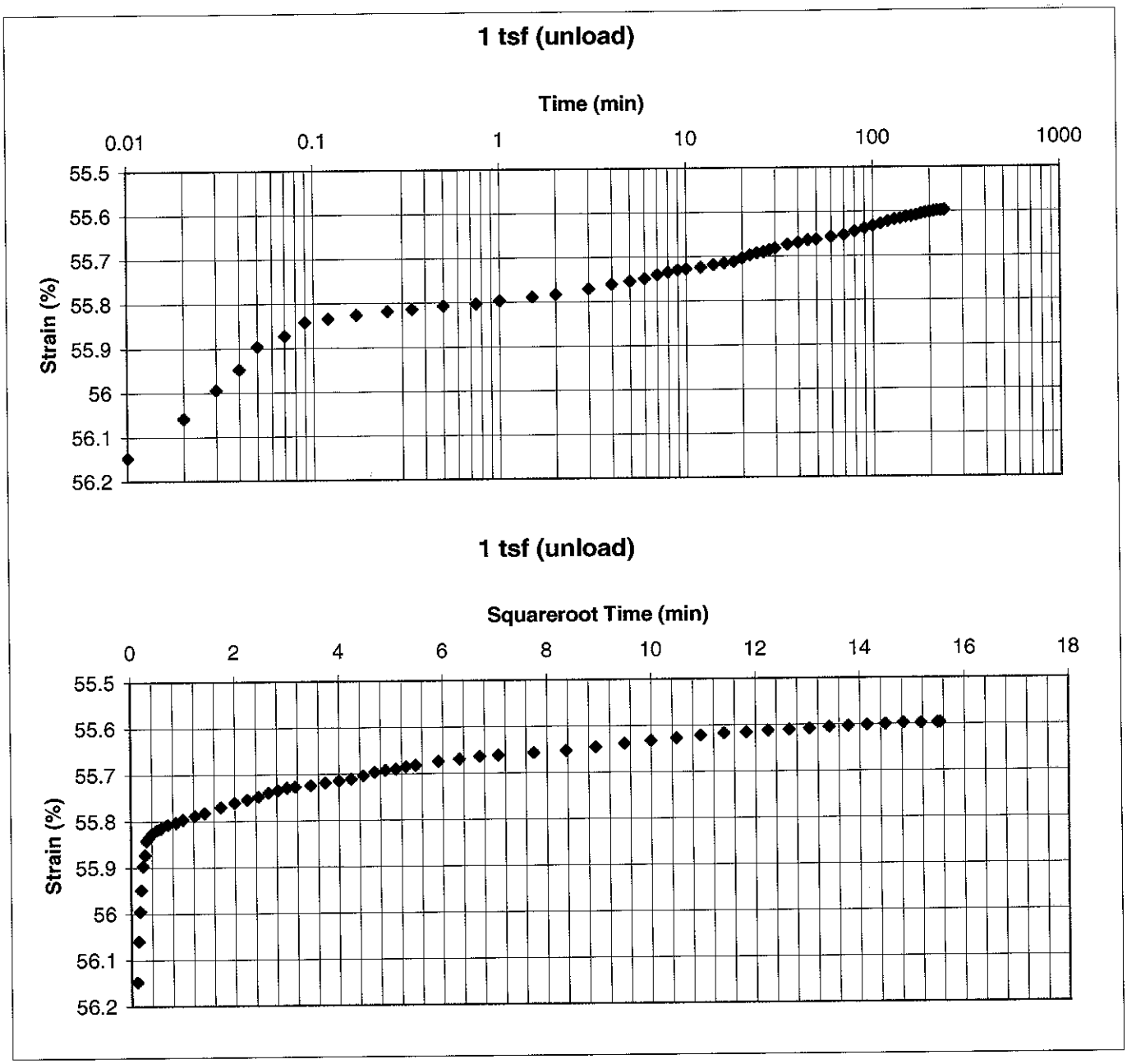
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
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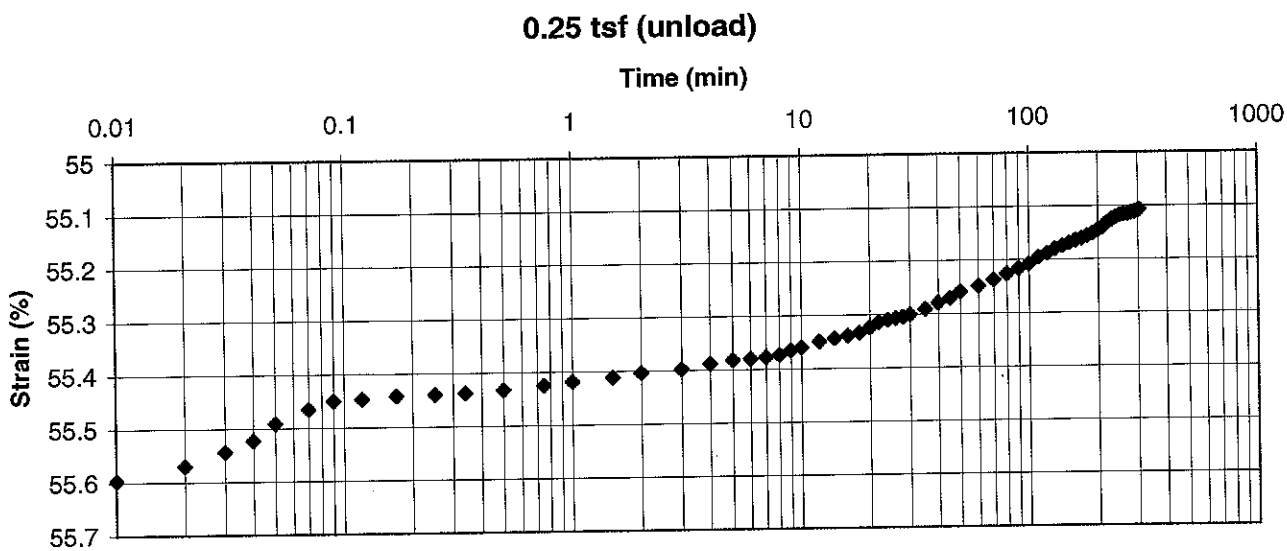
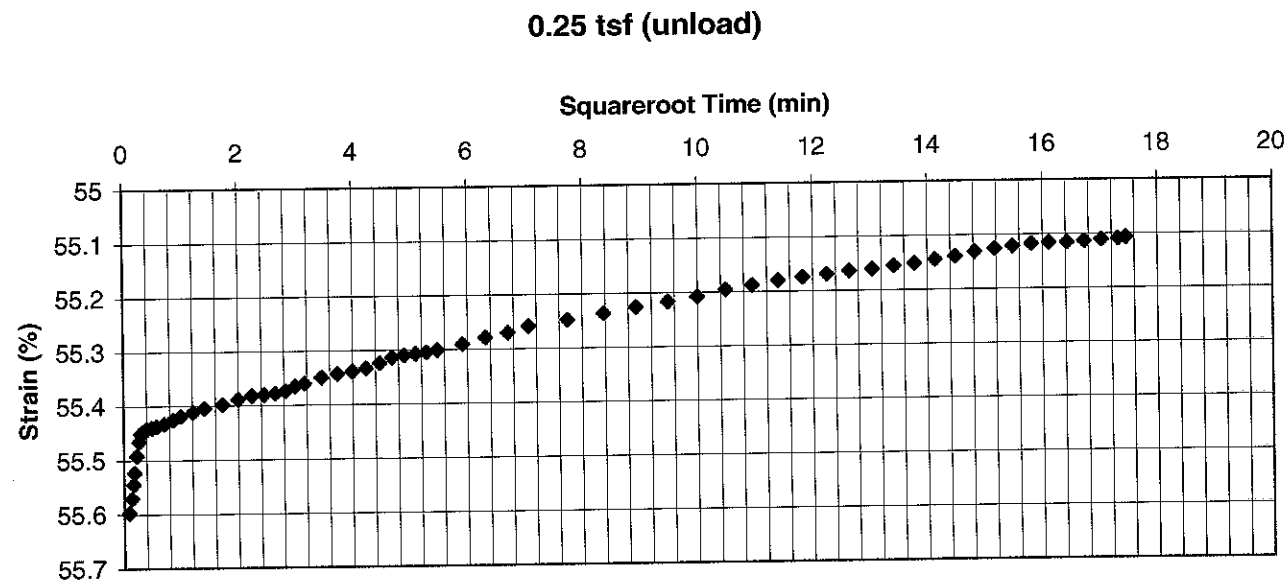
	Soil Description: Moist, dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60099	Test Date:	4/30/2007	Depth:	---
	Test No.: CST 15 (LC-14)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, dark gray silt				
	Remarks:				

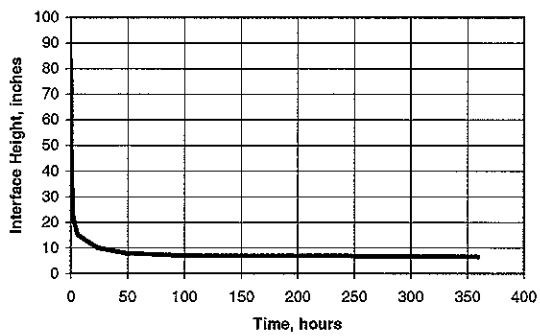
GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
04/09/07	9:30 AM	0	0.00	83.4	83.4		
	9:35 AM	5	0.08		79.2		
	9:40 AM	10	0.17		74.6		
	9:44 AM	14	0.23		71.0		
	9:48 AM	18	0.30		66.5		
	9:51 AM	21	0.35		64.2		
	10:11 AM	41	0.68		45.4		
	10:52 AM	82	1.37	82.25	28.5		
	11:39 AM	129	2.15	81.3	21.3		
	3:49 PM	379	6.32	78.9	15		
04/10/07	9:41 AM	1451	24.18	77.5	10		
04/11/07	9:40 AM	2890	48.17	76.3	8		
04/13/07	10:00 AM	5790	96.50	74.9	7		
04/17/07	10:00 AM	11550	192.50	73.7	7		
04/24/07	9:15 AM	21585	359.75	73.7	6.5		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	300	362	693									
Wet Sample + Tare Wt, g	214.69	185.74	201.30									
Dried Sample + Tare Wt, g	119.89	112.70	113.77									
Tare Wt, g	112.21	106.76	107.27									
Water Wt, g	94.80	73.04	87.53									
Dried Sample Wt, g	7.68	5.94	6.50									
Salt Wt, g	0.052	0.040	0.048									
Particulates Wt, g	7.628	5.900	6.452									
Particulates Conc. (g/L)	78.0	78.3	71.6									

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column None Collected

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	9	13	96	80	30	72	100A	58	171			
Wet Sample + Tare Wt, g	109.34	109.30	110.27	113.45	104.75	111.61	107.85	116.56	111.86			
Dried Sample + Tare Wt, g	67.75	65.70	68.25	67.50	67.54	67.65	67.58	67.49	66.79			
Tare Wt, g	67.67	65.63	68.18	67.46	67.52	67.57	67.54	67.42	66.77			
Water Wt, g	41.59	43.60	42.02	45.95	37.21	43.96	40.27	49.07	45.07			
Dried Sample Wt, g	0.08	0.07	0.07	0.04	0.02	0.08	0.04	0.07	0.02			
Salt Wt, g	0.023	0.024	0.023	0.025	0.020	0.024	0.022	0.027	0.024			
Particulates Wt, g	0.057	0.046	0.047	0.015	0.000	0.056	0.018	0.043	-0.004			
Particulates Conc. (g/L)	1.4	1.1	1.1	0.3	0.0	1.3	0.4	0.9	-0.1			

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	173	44	108	18	52	53	91	1	99	19		
Wet Sample + Tare Wt, g	109.01	106.86	108.22	109.26	116.71	122.87	125.16	108.84	120.67	123.13		
Dried Sample + Tare Wt, g	68.56	65.98	67.78	67.52	67.77	67.86	67.67	68.07	67.95	66.91		
Tare Wt, g	68.46	65.95	67.71	67.48	67.70	67.79	67.64	68.06	67.84	66.86		
Water Wt, g	40.45	40.88	40.44	41.74	48.94	55.01	57.49	40.77	52.72	56.22		
Dried Sample Wt, g	0.1	0.03	0.07	0.04	0.07	0.07	0.03	0.01	0.11	0.05		
Salt Wt, g	0.022	0.022	0.022	0.023	0.027	0.030	0.031	0.022	0.029	0.031		
Particulates Wt, g	0.078	0.008	0.048	0.017	0.043	0.040	-0.001	-0.012	0.081	0.019		
Particulates Conc. (g/L)	1.9	0.2	1.2	0.4	0.9	0.7	0.0	-0.3	1.5	0.3		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	115	84	151	14	163	207	43	194	36	198	113	154
Wet Sample + Tare Wt, g	108.87	114.37	111.70	115.47	123.72	115.73	118.15	116.29	129.32	122.54	125.22	121.68
Dried Sample + Tare Wt, g	66.22	67.44	67.78	66.66	68.41	67.47	67.66	68.25	66.09	67.94	65.51	67.39
Tare Wt, g	66.18	67.36	67.69	66.61	68.34	67.45	67.61	68.21	66.02	67.83	65.43	67.28
Water Wt, g	42.65	46.93	43.92	48.81	55.31	48.26	50.49	48.04	63.23	54.6	59.71	54.29
Dried Sample Wt, g	0.04	0.08	0.09	0.05	0.07	0.02	0.05	0.04	0.07	0.11	0.08	0.11
Salt Wt, g	0.023	0.025	0.024	0.027	0.030	0.026	0.027	0.026	0.034	0.030	0.032	0.029
Particulates Wt, g	0.017	0.055	0.066	0.023	0.040	-0.006	0.023	0.014	0.036	0.080	0.048	0.081
Particulates Conc. (g/L)	0.4	1.2	1.5	0.5	0.7	-0.1	0.4	0.3	0.6	1.5	0.8	1.5

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	89	82	155	27	110	157	25	162	159	88	67
Wet Sample + Tare Wt, g		107.22	110.36	111.70	112.21	110.17	113.19	111.45	118.17	118.76	114.99	115.57
Dried Sample + Tare Wt, g		66.25	67.47	67.09	65.86	66.29	68.00	67.90	66.81	66.90	67.84	68.01
Tare Wt, g		66.20	67.43	67.05	65.84	66.24	67.94	67.82	66.70	66.77	67.74	67.99
Water Wt, g		40.97	42.89	44.61	46.35	43.88	45.19	43.55	51.36	51.86	47.15	47.56
Dried Sample Wt, g		0.05	0.04	0.04	0.02	0.05	0.06	0.08	0.11	0.13	0.10	0.02
Salt Wt, g		0.022	0.023	0.024	0.025	0.024	0.025	0.024	0.028	0.028	0.026	0.026
Particulates Wt, g		0.028	0.017	0.016	-0.005	0.026	0.035	0.056	0.082	0.102	0.074	-0.006
Particulates Conc. (g/L)		0.7	0.4	0.4	-0.1	0.6	0.8	1.3	1.6	2.0	1.6	-0.1

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	172	101A	49	48	105A	167	188	179	45	203	202
Wet Sample + Tare Wt, g		105.12	109.04	114.16	110.39	113.71	115.11	125.54	120.11	118.68	114.94	113.40
Dried Sample + Tare Wt, g		67.01	67.39	67.60	68.07	67.63	67.27	66.88	67.86	67.91	67.20	67.39
Tare Wt, g		66.96	67.32	67.52	68.01	67.53	67.17	66.76	67.78	67.82	67.14	67.30
Water Wt, g		38.11	41.65	46.56	42.32	46.08	47.84	58.66	52.25	50.77	47.74	46.01
Dried Sample Wt, g		0.05	0.07	0.08	0.06	0.10	0.10	0.12	0.08	0.09	0.06	0.09
Salt Wt, g		0.021	0.023	0.025	0.023	0.025	0.026	0.032	0.028	0.028	0.026	0.025
Particulates Wt, g		0.029	0.047	0.055	0.037	0.075	0.074	0.088	0.052	0.062	0.034	0.065
Particulates Conc. (g/L)		0.8	1.1	1.2	0.9	1.6	1.5	1.5	1.0	1.2	0.7	1.4

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	85	189	75	175	170	57	156	101	121	3	2
Wet Sample + Tare Wt, g		107.02	113.91	111.52	110.41	110.77	114.03	113.55	122.20	114.82	121.05	114.45
Dried Sample + Tare Wt, g		67.71	67.29	68.22	67.47	68.18	67.72	66.72	68.18	68.18	66.36	68.01
Tare Wt, g		67.64	67.19	68.12	67.37	68.10	67.60	66.61	68.08	68.08	66.24	67.90
Water Wt, g		39.31	46.62	43.30	42.94	42.59	46.31	46.83	54.02	46.64	54.69	46.44
Dried Sample Wt, g		0.07	0.10	0.10	0.10	0.08	0.12	0.11	0.10	0.10	0.12	0.11
Salt Wt, g		0.021	0.025	0.024	0.023	0.023	0.025	0.025	0.029	0.025	0.030	0.025
Particulates Wt, g		0.049	0.075	0.076	0.077	0.057	0.095	0.085	0.071	0.075	0.090	0.085
Particulates Conc. (g/L)		1.2	1.6	1.8	1.8	1.3	2.0	1.8	1.3	1.6	1.6	1.8

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	20	164	62	208	4	31	70	37	186	87	178
Wet Sample + Tare Wt, g		105.81	107.20	110.92	109.85	114.82	102.31	108.48	115.60	113.76	111.20	111.65
Dried Sample + Tare Wt, g		67.84	67.18	67.56	67.14	66.50	67.41	67.86	67.69	67.12	66.55	67.30
Tare Wt, g		67.76	67.10	67.47	67.07	66.40	67.35	67.77	67.58	67.01	66.47	67.20
Water Wt, g		37.97	40.02	43.36	42.71	48.32	34.90	40.62	47.91	46.64	44.65	44.35
Dried Sample Wt, g		0.08	0.08	0.09	0.07	0.10	0.06	0.09	0.11	0.11	0.08	0.10
Salt Wt, g		0.021	0.022	0.024	0.023	0.026	0.019	0.022	0.026	0.025	0.024	0.024
Particulates Wt, g		0.059	0.058	0.066	0.047	0.074	0.041	0.068	0.084	0.085	0.056	0.076
Particulates Conc. (g/L)		1.6	1.5	1.5	1.1	1.5	1.2	1.7	1.8	1.8	1.2	1.7

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	156	74	121	193	39	170	2	57	152	86	67
Wet Sample + Tare Wt, g		102.73	107.41	108.53	109.27	115.57	114.84	107.80	115.25	117.17	111.76	114.98
Dried Sample + Tare Wt, g		66.69	67.88	68.16	66.95	68.02	68.19	67.99	67.71	68.07	67.99	68.01
Tare Wt, g		66.62	67.82	68.10	66.88	67.93	68.12	67.92	67.62	67.99	67.93	67.93
Water Wt, g		36.04	39.53	40.37	42.32	47.55	46.65	39.81	47.54	49.10	43.77	46.97
Dried Sample Wt, g		0.07	0.06	0.06	0.07	0.09	0.07	0.07	0.09	0.08	0.06	0.08
Salt Wt, g		0.020	0.021	0.022	0.023	0.026	0.025	0.022	0.026	0.027	0.024	0.026
Particulates Wt, g		0.050	0.039	0.038	0.047	0.064	0.045	0.048	0.064	0.053	0.036	0.054
Particulates Conc. (g/L)		1.4	1.0	0.9	1.1	1.3	1.0	1.2	1.3	1.1	0.8	1.2

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	xxx	200	103A	17	24	185	67	2	170	190	86
Wet Sample + Tare Wt, g			105.36	108.58	109.56	109.37	105.05	112.5	107.19	115.18	109.02	109.16
Dried Sample + Tare Wt, g			67.62	68.25	66.92	67.64	66.68	68.02	68.02	68.2	67.96	68
Tare Wt, g			67.54	68.15	66.83	67.59	66.64	67.92	67.91	68.1	67.86	67.91
Water Wt, g			37.74	40.33	42.64	41.73	38.37	44.48	39.17	46.98	41.06	41.16
Dried Sample Wt, g			0.08	0.1	0.09	0.05	0.04	0.1	0.11	0.1	0.1	0.09
Salt Wt, g			0.021	0.022	0.023	0.023	0.021	0.024	0.021	0.026	0.022	0.022
Particulates Wt, g			0.059	0.078	0.067	0.027	0.019	0.076	0.089	0.074	0.078	0.068
Particulates Conc. (g/L)			1.6	1.9	1.6	0.7	0.5	1.7	2.3	1.6	1.9	1.6

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	45	172	167	179	105A	74	101A	49	48			
Dry Particulates + Filter Paper Wt, g	0.0953	0.0974	0.1014	0.0968	0.1012	0.0973	0.1050	0.1068	0.1008			
Filter Paper Wt, g	0.0825	0.0837	0.0858	0.0799	0.0836	0.0819	0.0858	0.0866	0.0784			
Dry Particulates Wt, g	0.0128	0.0137	0.0156	0.0169	0.0176	0.0154	0.0192	0.0202	0.0224			
Volume (mL)	100	100	100	100	100	100	100	100	100			
Particulates TSS Conc. (mg/L)	128.000	137.000	156.000	169.000	176.000	154.000	192.000	202.000	224.000			
Turbidity (NTU)	120	130	150	150	150	140	150	140	160			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	56	99A	26	166	164	66	203	193	29	202		
Dry Particulates + Filter Paper Wt, g	0.0890	0.0937	0.0975	0.0988	0.0938	0.1000	0.0963	0.0926	0.1000	0.0936		
Filter Paper Wt, g	0.0780	0.0825	0.0853	0.0857	0.0807	0.0872	0.0822	0.0786	0.0856	0.0793		
Dry Particulates Wt, g	0.0110	0.0112	0.0122	0.0131	0.0131	0.0128	0.0141	0.0140	0.0144	0.0143		
Volume (mL)	115	100	100	100	100	100	100	100	100	100		
Particulates TSS Conc. (mg/L)	95.652	112.000	122.000	131.000	131.000	128.000	141.000	140.000	144.000	143.000		
Turbidity (NTU)	85	110	80	85	90	120	120	90	95	95		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	183	4	46	86	152	37	68	120	160	67	181	188
Dry Particulates + Filter Paper Wt, g	0.0892	0.0899	0.0895	0.0932	0.0947	0.0898	0.0880	0.0877	0.0901	0.0878	0.0975	0.0872
Filter Paper Wt, g	0.0842	0.0826	0.0820	0.0855	0.0865	0.0812	0.0794	0.0783	0.0806	0.0781	0.0869	0.077
Dry Particulates Wt, g	0.0050	0.0073	0.0075	0.0077	0.0082	0.0086	0.0086	0.0094	0.0095	0.0097	0.0106	0.0102
Volume (mL)	103	103	100	100	100	103	100	100	100	100	100	100
Particulates TSS Conc. (mg/L)	48.544	70.874	75.000	77.000	82.000	83.495	86.000	94.000	95.000	97.000	106.000	102.000
Turbidity (NTU)	45	65	70	65	80	75	75	85	85	80	90	85

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	86	68	37	120	152	183	181	46	4	74	160
Dry Particulates + Filter Paper Wt, g		0.0914	0.0918	0.0944	0.0928	0.0946	0.0915	0.0885	0.0916	0.0872	0.0873	0.087
Filter Paper Wt, g		0.0855	0.0852	0.0872	0.0851	0.0872	0.0838	0.0816	0.0845	0.0799	0.0801	0.0794
Dry Particulates Wt, g		0.0059	0.0066	0.0072	0.0077	0.0074	0.0077	0.0069	0.0071	0.0073	0.0072	0.0076
Volume (mL)		97	100	105	103	100	100	100	100	100	100	100
Particulates TSS Conc. (mg/L)		60.825	66.000	68.571	74.757	74.000	77.000	69.000	71.000	73.000	72.000	76.000
Turbidity (NTU)		60	65	65	65	65	65	65	65	65	70	70

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	46	181	152	183	160	37	120	68	86	4	74
Dry Particulates + Filter Paper Wt, g		0.0806	0.0867	0.0858	0.0906	0.0868	0.0857	0.0887	0.0843	0.0820	0.0865	0.0888
Filter Paper Wt, g		0.0785	0.0843	0.0828	0.0875	0.0836	0.0827	0.0855	0.0813	0.0788	0.0835	0.0856
Dry Particulates Wt, g		0.0021	0.0024	0.0030	0.0031	0.0032	0.0030	0.0032	0.0030	0.0032	0.0030	0.0032
Volume (mL)		124	125	125	126	128	135	130	125	125	125	125
Particulates TSS Conc. (mg/L)		16.935	19.200	24.000	24.603	25.000	22.222	24.615	24.000	25.600	24.000	25.600
Turbidity (NTU)		22	22	21	22	23	24	24	23	27	24	25

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	87	116	70	56	209	152	164	24	37	29	4
Dry Particulates + Filter Paper Wt, g		0.0833	0.0882	0.0894	0.0806	0.0814	0.0898	0.0857	0.0818	0.0902	0.0881	0.0799
Filter Paper Wt, g		0.0812	0.0862	0.0878	0.0789	0.0792	0.0878	0.0835	0.0797	0.0878	0.0855	0.0777
Dry Particulates Wt, g		0.0021	0.0020	0.0016	0.0017	0.0022	0.0020	0.0022	0.0021	0.0024	0.0026	0.0022
Volume (mL)		130	128	129	133	131	134	140	134	134	139	135
Particulates TSS Conc. (mg/L)		16.154	15.625	12.403	12.782	16.794	14.925	15.714	15.672	17.910	18.705	16.296
Turbidity (NTU)		18	18	19	19	19	19	19	20	19	19	20

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	154	115	113	162	155	207	110	41	84	36	42
Dry Particulates + Filter Paper Wt, g		0.0889	0.0812	0.0911	0.0840	0.0910	0.0911	0.0842	0.0876	0.0896	0.0910	0.0913
Filter Paper Wt, g		0.0862	0.0783	0.0882	0.0812	0.0882	0.0883	0.0816	0.0848	0.0865	0.0882	0.0884
Dry Particulates Wt, g		0.0027	0.0029	0.0029	0.0028	0.0028	0.0028	0.0026	0.0028	0.0031	0.0028	0.0029
Volume (mL)		132	133	133	132	135	137	141	145	142	130	143
Particulates TSS Conc. (mg/L)		20.455	21.805	21.805	21.212	20.741	20.438	18.440	19.310	21.831	21.538	20.280
Turbidity (NTU)		14	14	14	14	15	14	14	14	15	16	16

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	163	173	61	195	107	54	180	72	15	99	151
Dry Particulates + Filter Paper Wt, g		0.0826	0.0773	0.0815	0.0886	0.0802	0.0873	0.0809	0.0872	0.0868	0.0817	0.0865
Filter Paper Wt, g		0.0808	0.0755	0.0804	0.0869	0.0786	0.0859	0.0792	0.0862	0.0851	0.0800	0.0841
Dry Particulates Wt, g		0.0018	0.0018	0.0011	0.0017	0.0016	0.0014	0.0017	0.0010	0.0017	0.0017	0.0024
Volume (mL)		137	134	135	134	130	117	151	135	140	134	142
Particulates TSS Conc. (mg/L)		13.139	13.433	8.148	12.687	12.308	11.966	11.258	7.407	12.143	12.687	16.901
Turbidity (NTU)		12	13	13	13	12	12	12	13	13	13	13

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-60100	CST Test #:	14
Test Start Date:	4/9/2007	Tested By:	md
Test Start Time:	9:30	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	xxx	xxx	116	182	179	168	50	8	9	119	44	161
Dry Particulates + Filter Paper Wt, g			0.0888	0.0822	0.089	0.0793	0.0822	0.0821	0.0877	0.0884	0.0797	0.085
Filter Paper Wt, g			0.0879	0.081	0.0877	0.0787	0.0812	0.0815	0.0865	0.0874	0.0784	0.084
Dry Particulates Wt, g	---		0.0009	0.0012	0.0013	0.0006	0.001	0.0006	0.0012	0.001	0.0013	0.001
Volume (mL)			132	136	138	138	132	140	136	144	138	138
Particulates TSS Conc. (mg/L)			6.818	8.824	9.420	4.348	7.576	4.286	8.824	6.944	9.420	7.246
Turbidity (NTU)			10	11	11	10	10	10	10	10	10	12

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-60100	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50279		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-60100	---	Moist, very dark gray silt	57.5

Notes: Temperature of Drying : 110° Celsius

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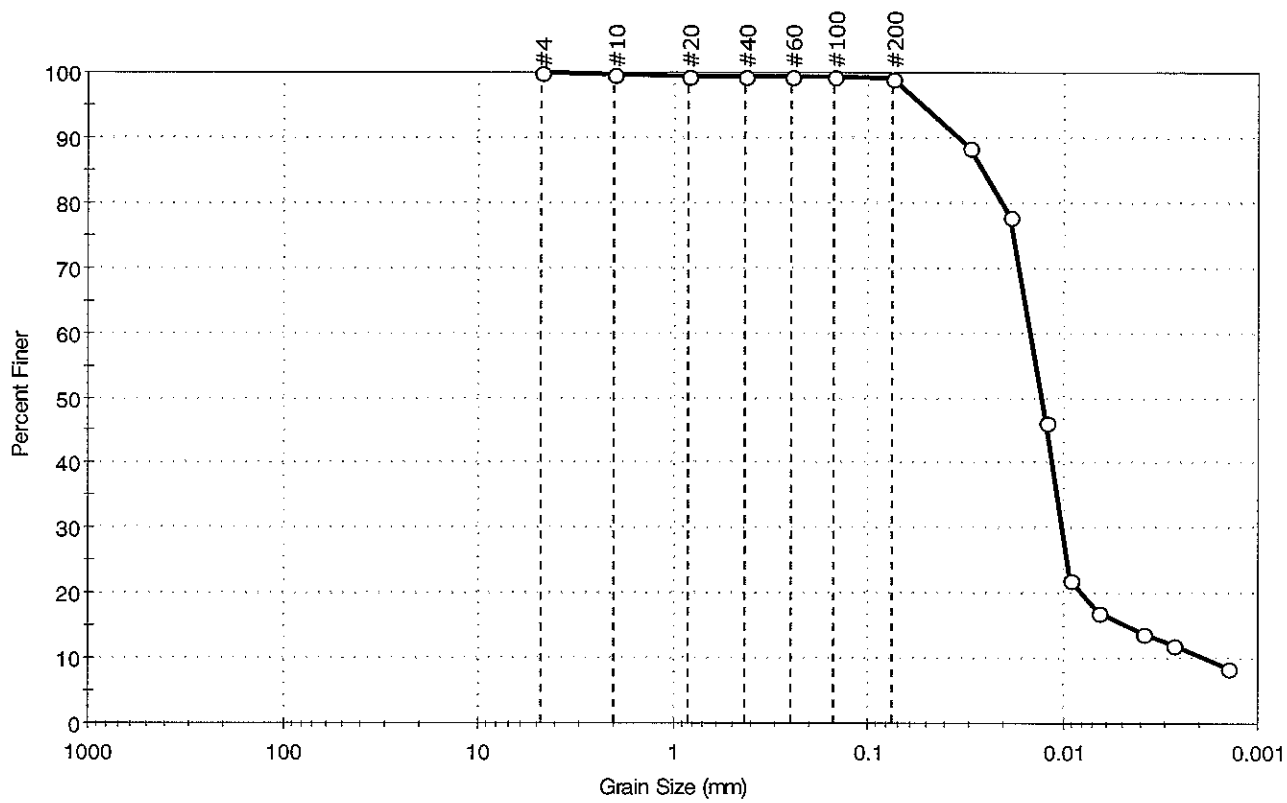
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-60100	Test Date:	05/02/07	Checked By:	jdt
Depth :	---	Test Id:	109703		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	0.8	99.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	99		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0300	88		
---	0.0189	78		
---	0.0121	46		
---	0.0092	22		
---	0.0066	17		
---	0.0039	14		
---	0.0027	12		
---	0.0014	9		

Coefficients

D_{85} = 0.0259 mm D_{30} = 0.0100 mm
D_{60} = 0.0147 mm D_{15} = 0.0047 mm
D_{50} = 0.0128 mm D_{10} = 0.0018 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (49))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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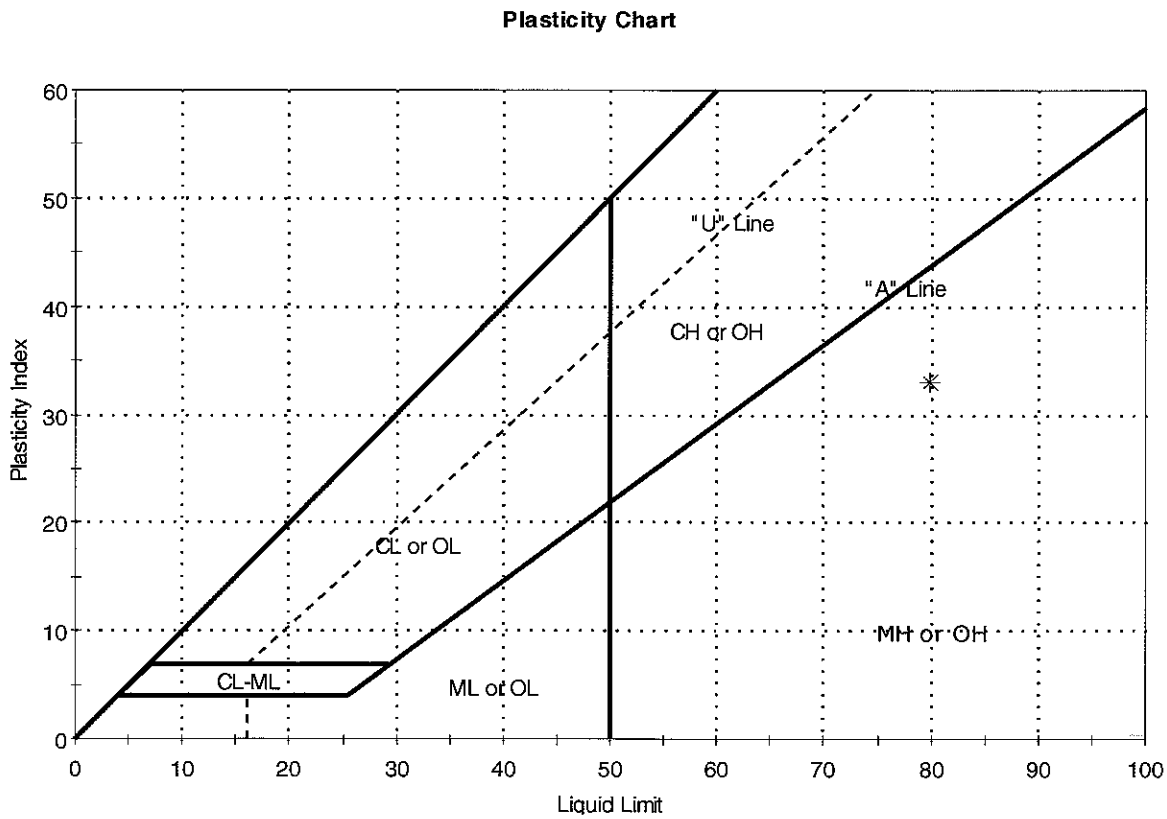
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-60100	Test Date:	05/07/07	Checked By:	jdt
Depth :	---	Test Id:	109720		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-60100	---	---	58	80	47	33	0	elastic silt (MH)

Sample Prepared using the WET method
1% Retained on #40 Sieve
Dry Strength: VERY HIGH
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-60100		Test Date:	05/07/07	Checked By:	jdt
Depth : ---		Test Id:	109754		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-60100	---	Moist, very dark gray silt	2.52

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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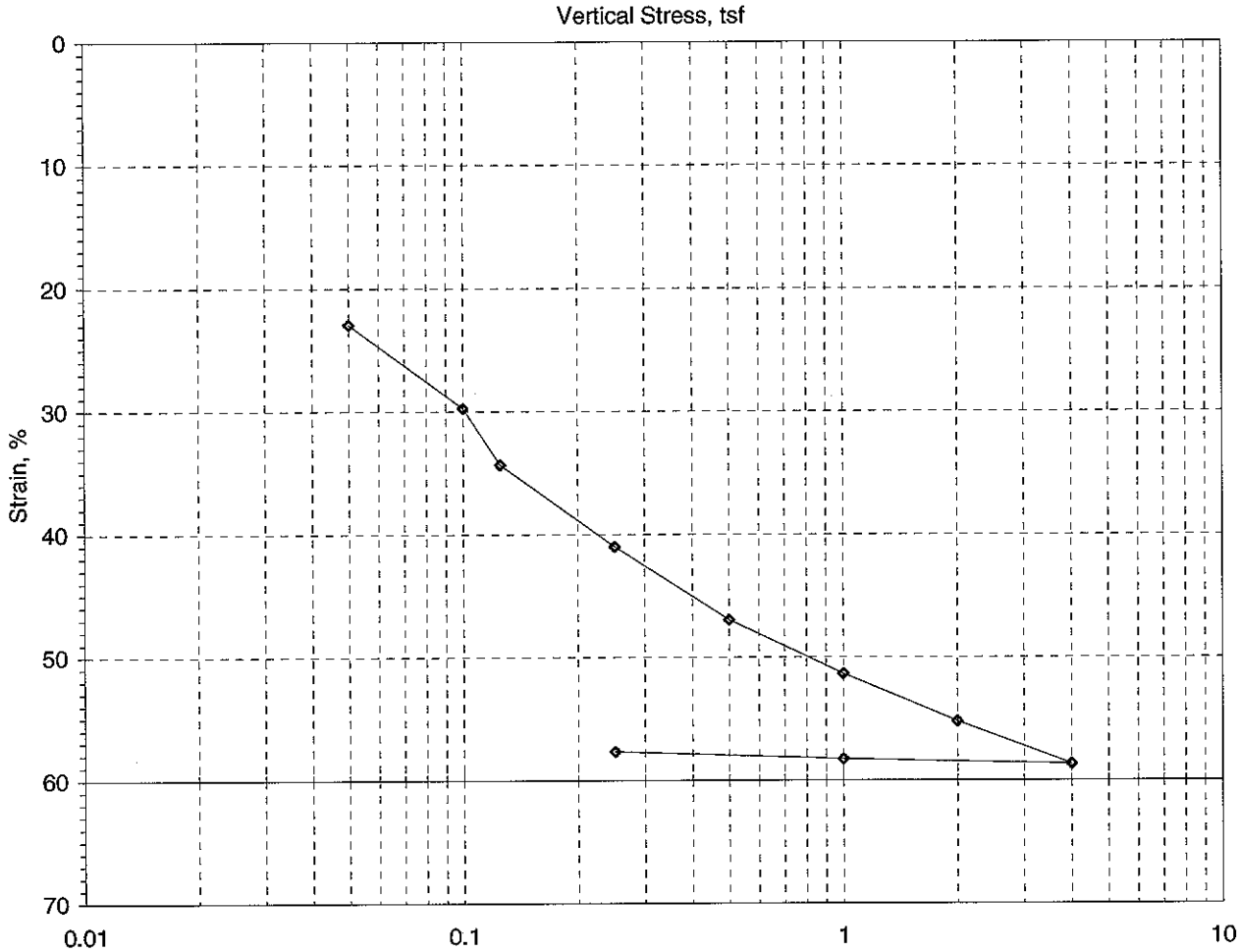
Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/30/07
Tested by:	md
Checked by:	jdt

Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-60100	Moist, very dark gray silt	0.38	0.36	0.43	0.38	0.39

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA
SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	318	58
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	25.3	60.0
Compression Index:	---			Saturation, %	99.3	89.8
Diameter:	11.0 in	Initial Height:	6.25 in	Void Ratio	5.21	1.63
LL: 80	PL: 47	PI	33 GS: 2.52			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60100
Test No.:CST 14 (LC-13)

Location: Syracuse, NY
Tested By: md
Test Date: 04/25/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, very dark gray silt
Remarks: System Q

Measured Specific Gravity: 2.52
Initial Void Ratio: 5.21
Final Void Ratio: 1.63

Liquid Limit: 80
Plastic Limit: 47
Plasticity Index: 33

Initial Height: 6.25 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		123	RING		22305
Wt. Container + Wet Soil,	gm	119.43	28500	22680	227.07
Wt. Container + Dry Soil,	gm	78.52	20390	20390	146.79
Wt. Container, gm		65.64	16440	16440	8.31
Wt. Dry Soil, gm		12.88	3950.1	3950.1	138.48
Water Content, %		317.6	205.3	58.0	58.0
Void Ratio		---	5.21	1.63	---
Degree of Saturation, %		---	99.3	89.8	---
Dry Unit Weight, pcf		---	25.3	60.0	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 60100
Test No.: CST 14 (LC-13)

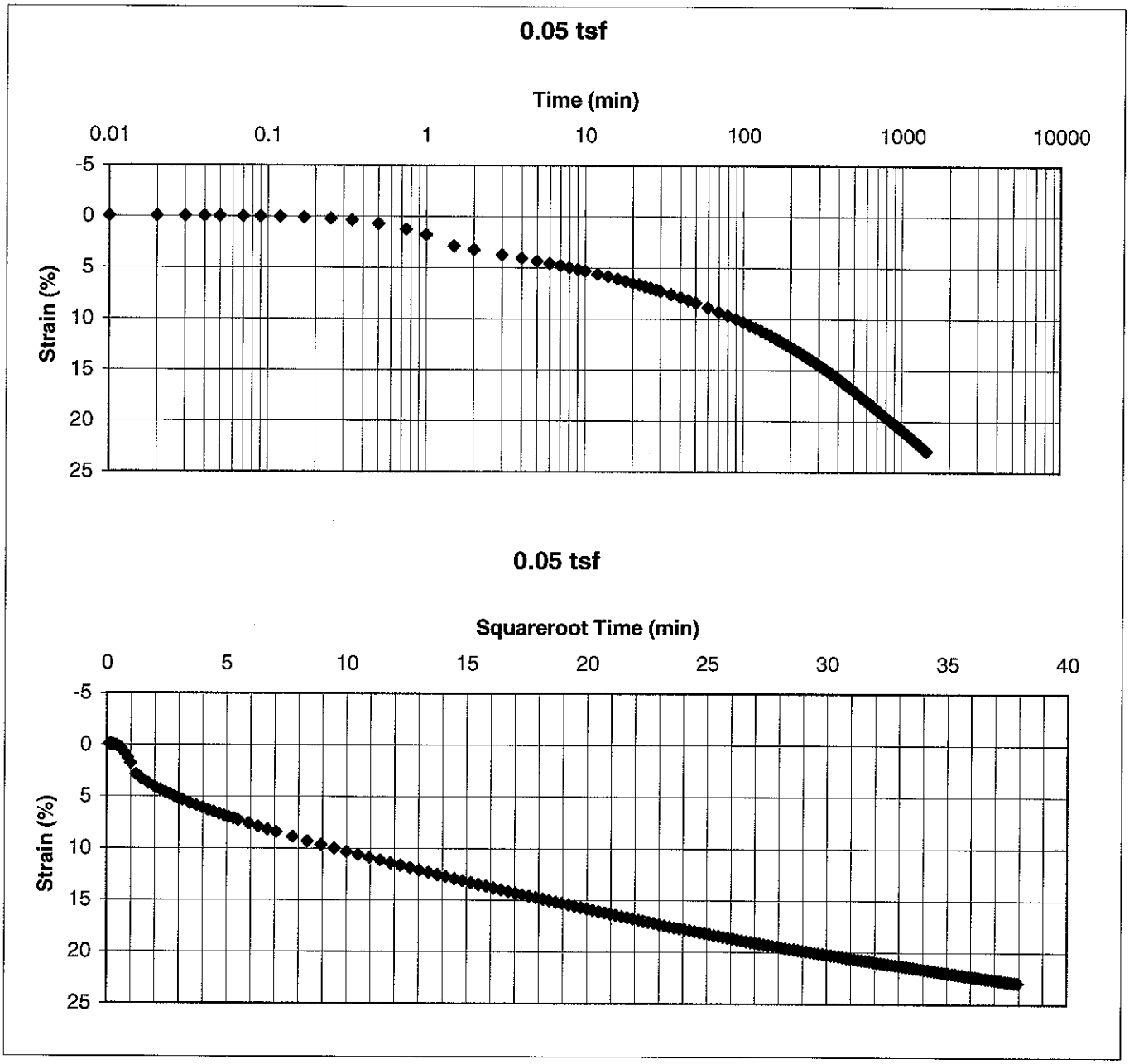
Location: Syracuse, NY
Tested By: md
Test Date: 04/25/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, very dark gray silt
Remarks: System Q

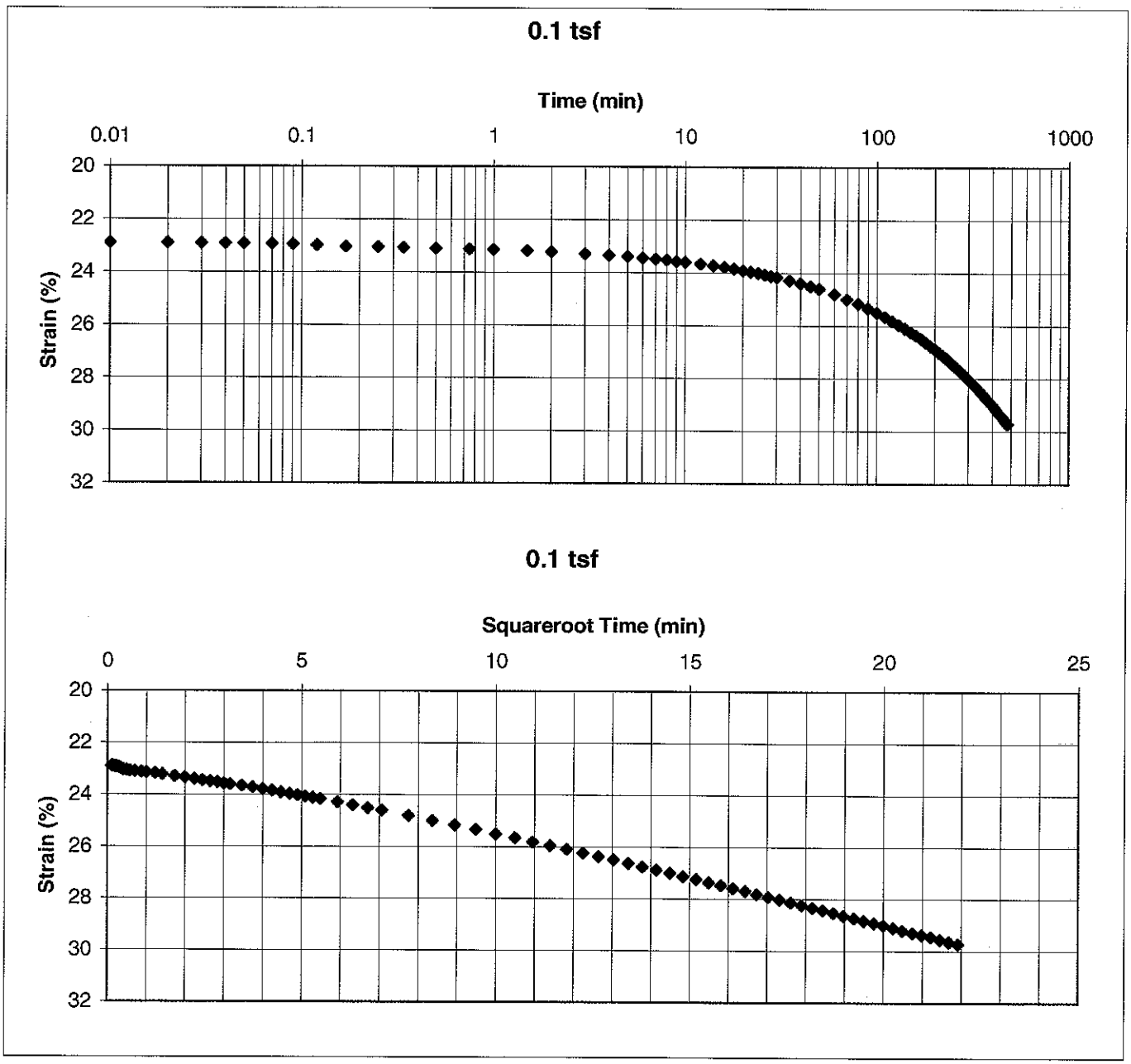
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	1.433	3.786	22.928	98.1	0	1.03E-03	0.00E+00	1.03E-03
2	0.1	1.858	3.364	29.728	0	0	0.00E+00	0.00E+00	0.00E+00
3	0.125	2.146	3.077	34.336	0	0	0.00E+00	0.00E+00	0.00E+00
4	0.25	2.562	2.664	40.992	0	0	0.00E+00	0.00E+00	0.00E+00
5	0.5	2.9357	2.2911	46.971	13.9	0	3.14E-03	0.00E+00	3.14E-03
6	1	3.2099	2.0185	51.358	92.3	0	1.21E-03	0.00E+00	1.21E-03
7	2	3.451	1.7788	55.216	60.3	0	1.69E-03	0.00E+00	1.69E-03
8	4	3.668	1.563	58.688	42	0	2.23E-03	0.00E+00	2.23E-03
9	1	3.6431	1.5878	58.290	0.1	0	7.71E-01	2.42E+00	1.17E+00
10	0.25	3.6046	1.6261	57.674	16.7	0	5.49E-03	0.00E+00	5.49E-03

CONSOLIDATION TEST DATA
TIME CURVES



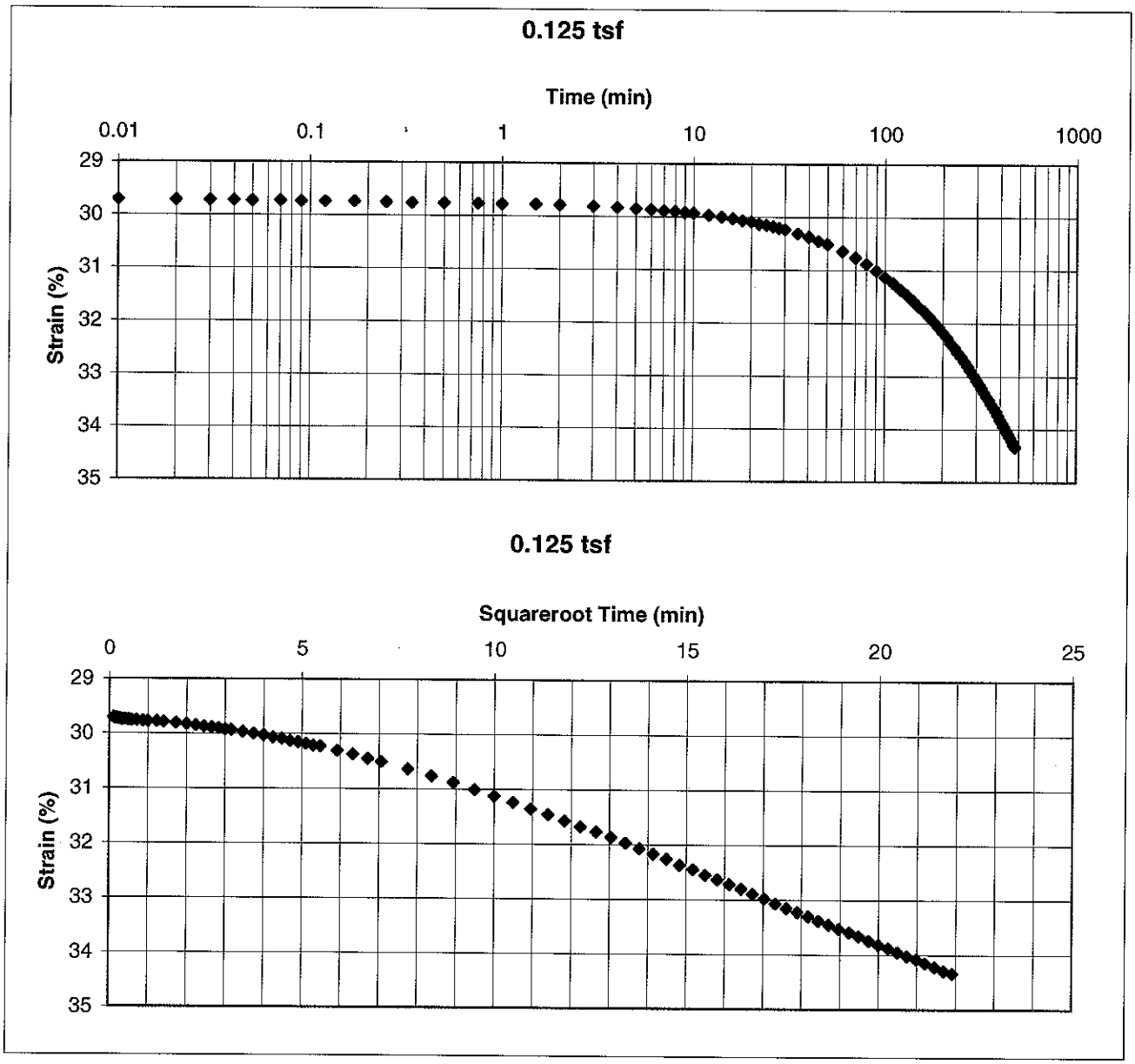
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



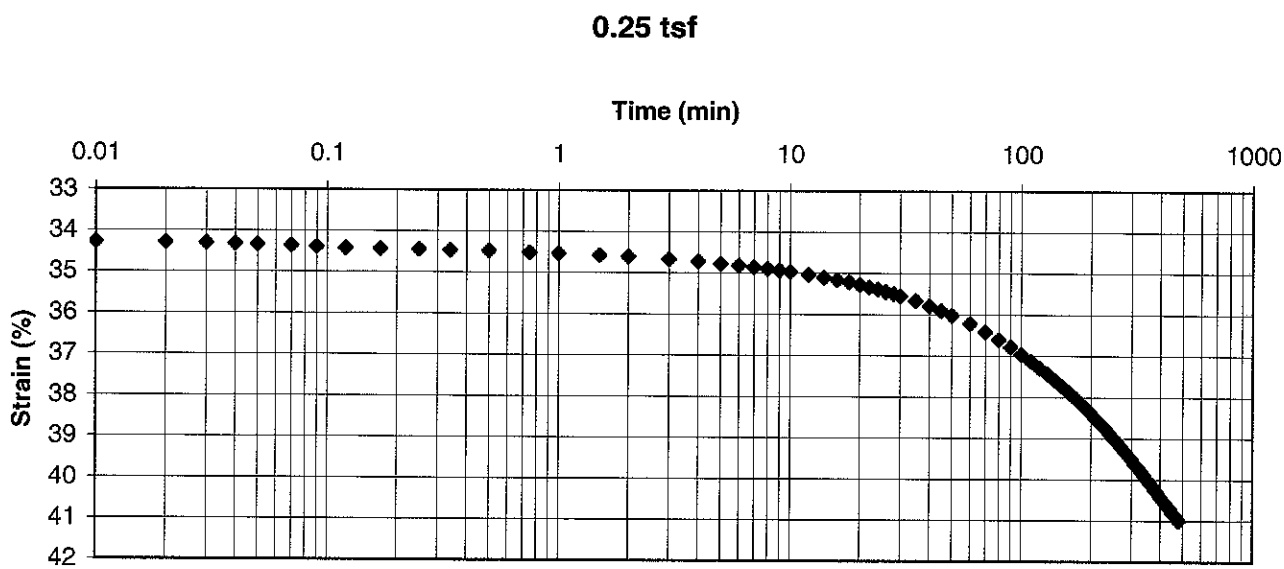
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

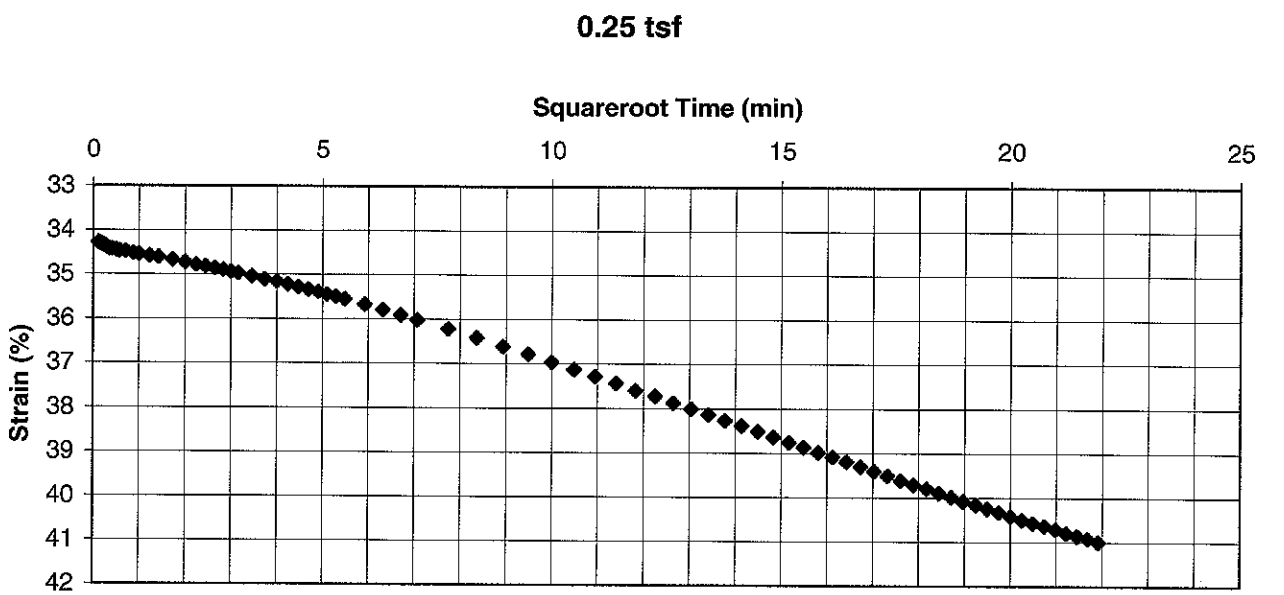
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST-14 (LC13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

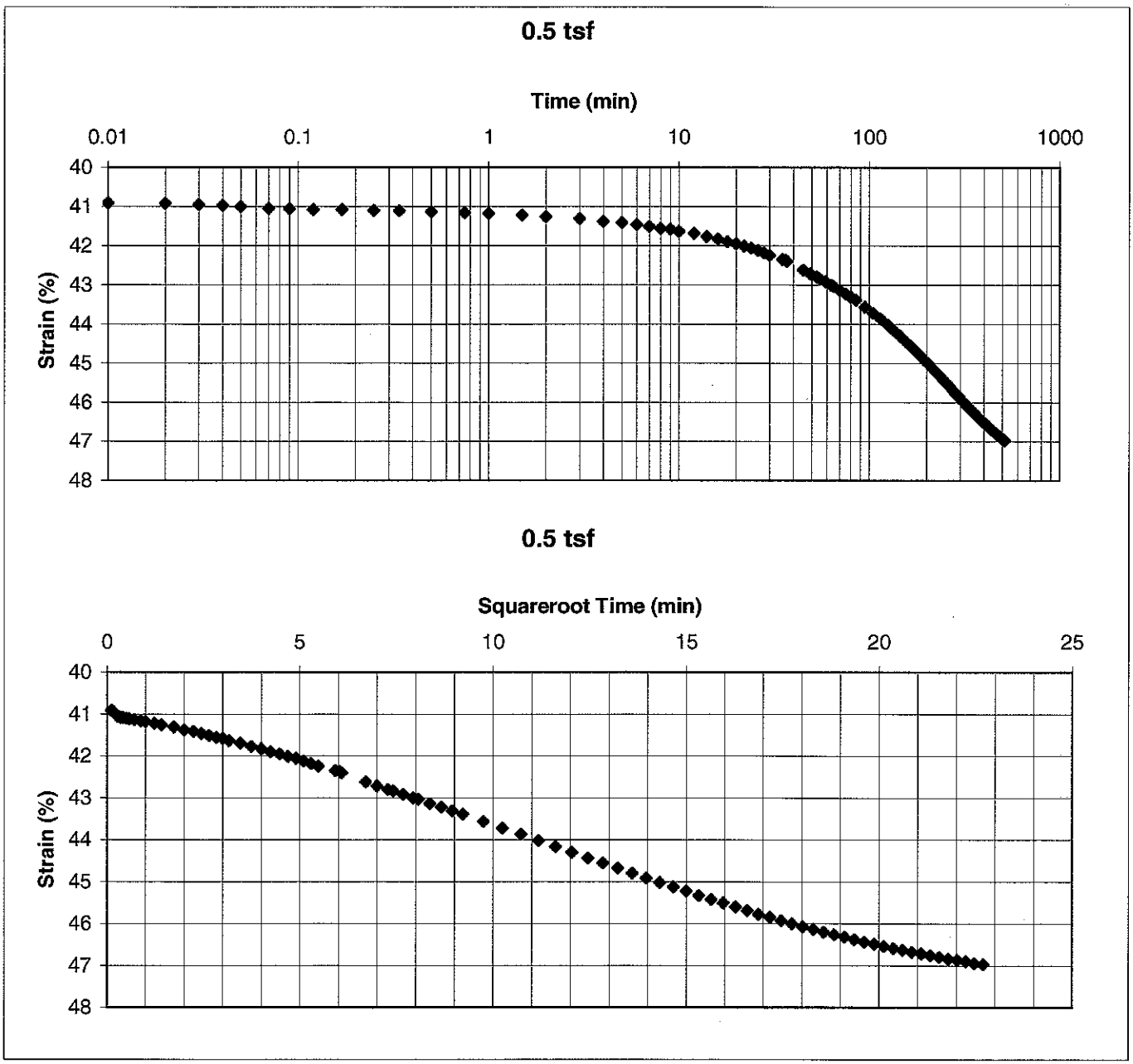
CONSOLIDATION TEST DATA
TIME CURVES





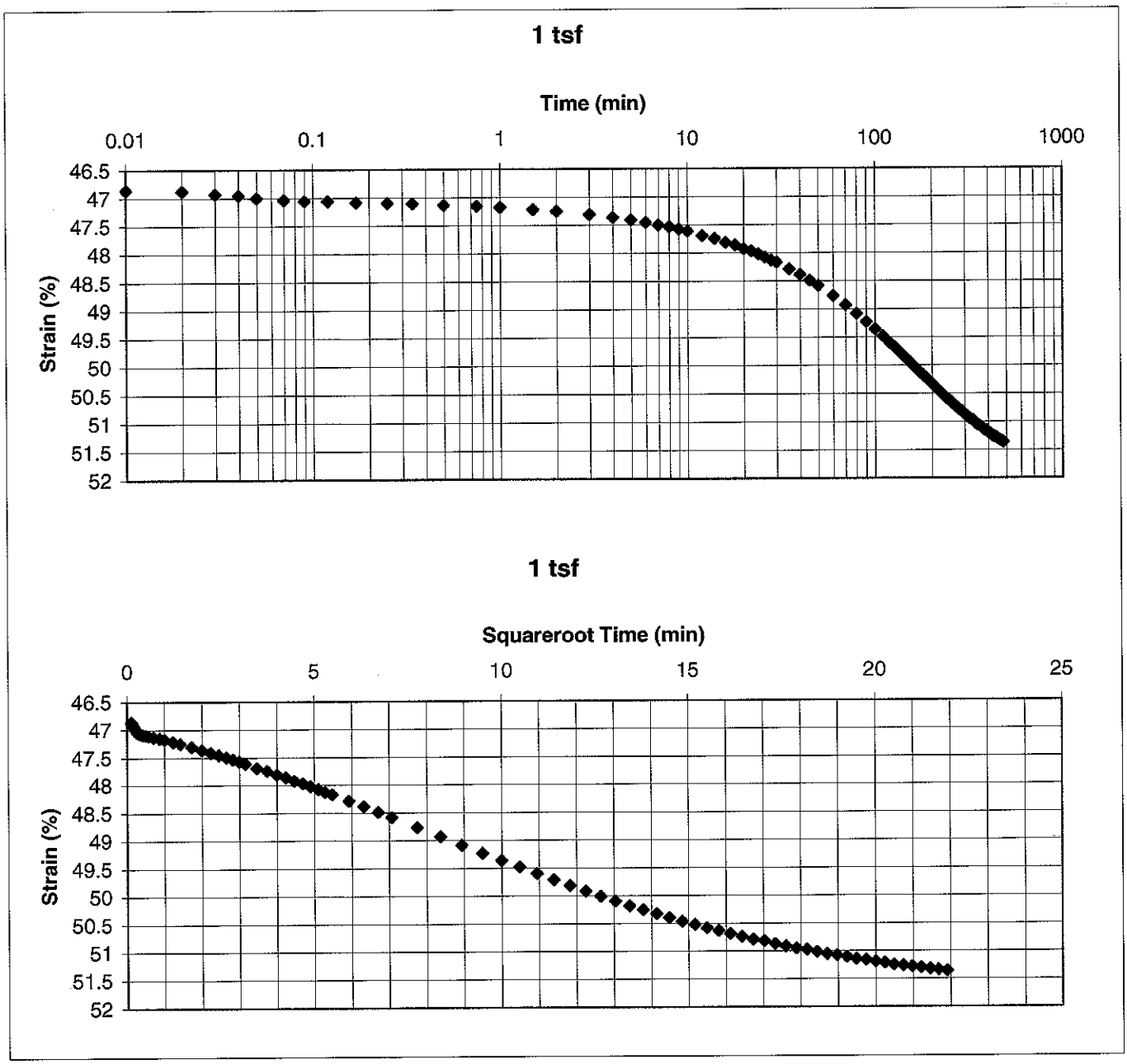
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



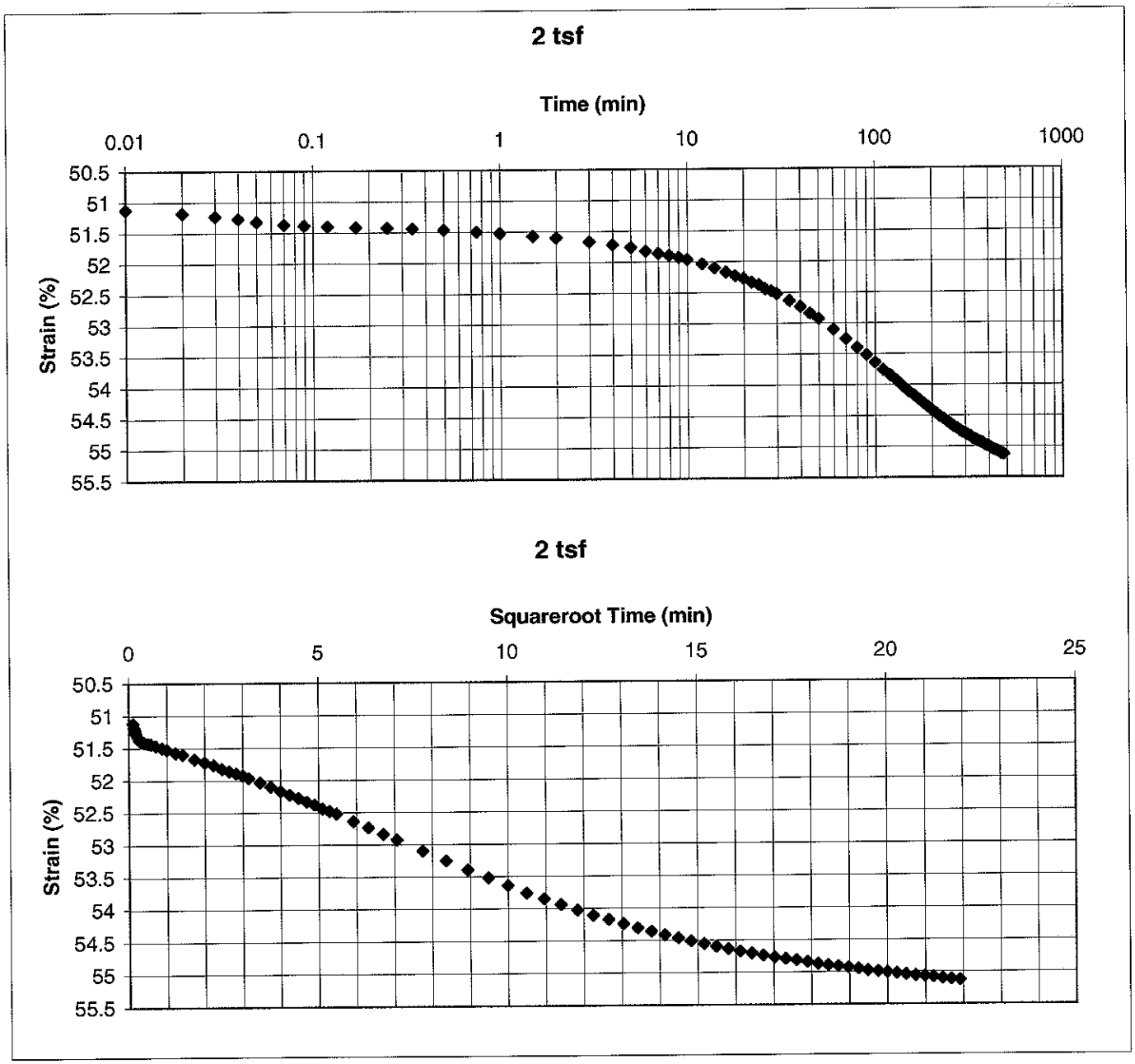
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



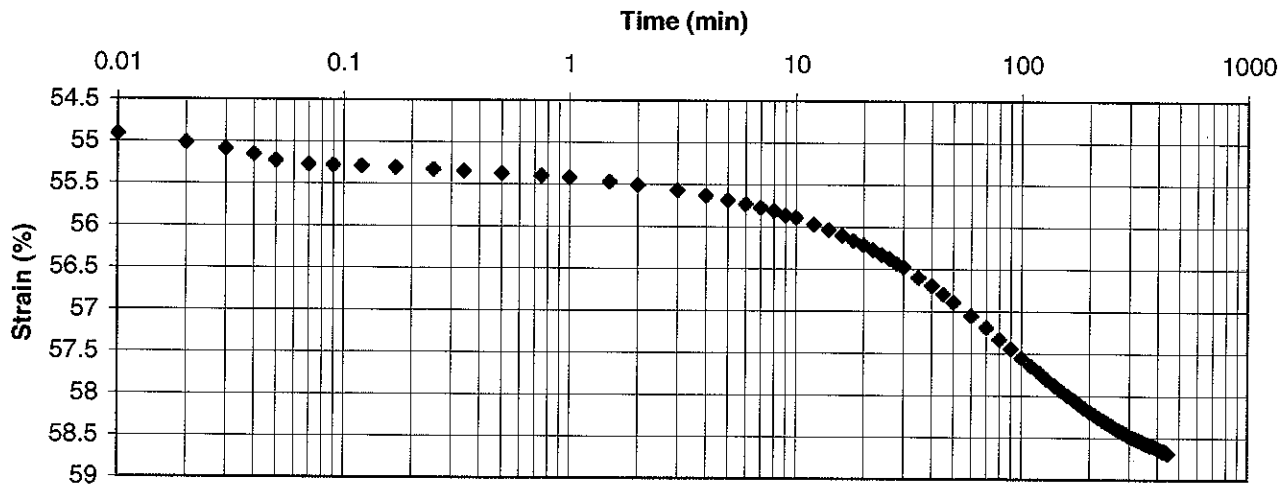
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

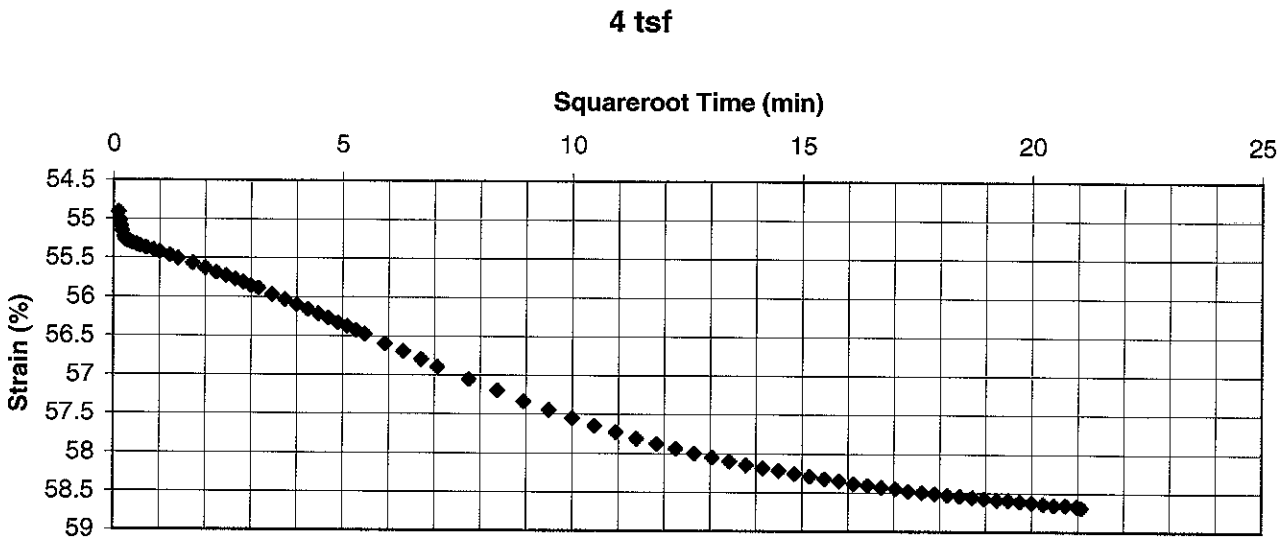
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

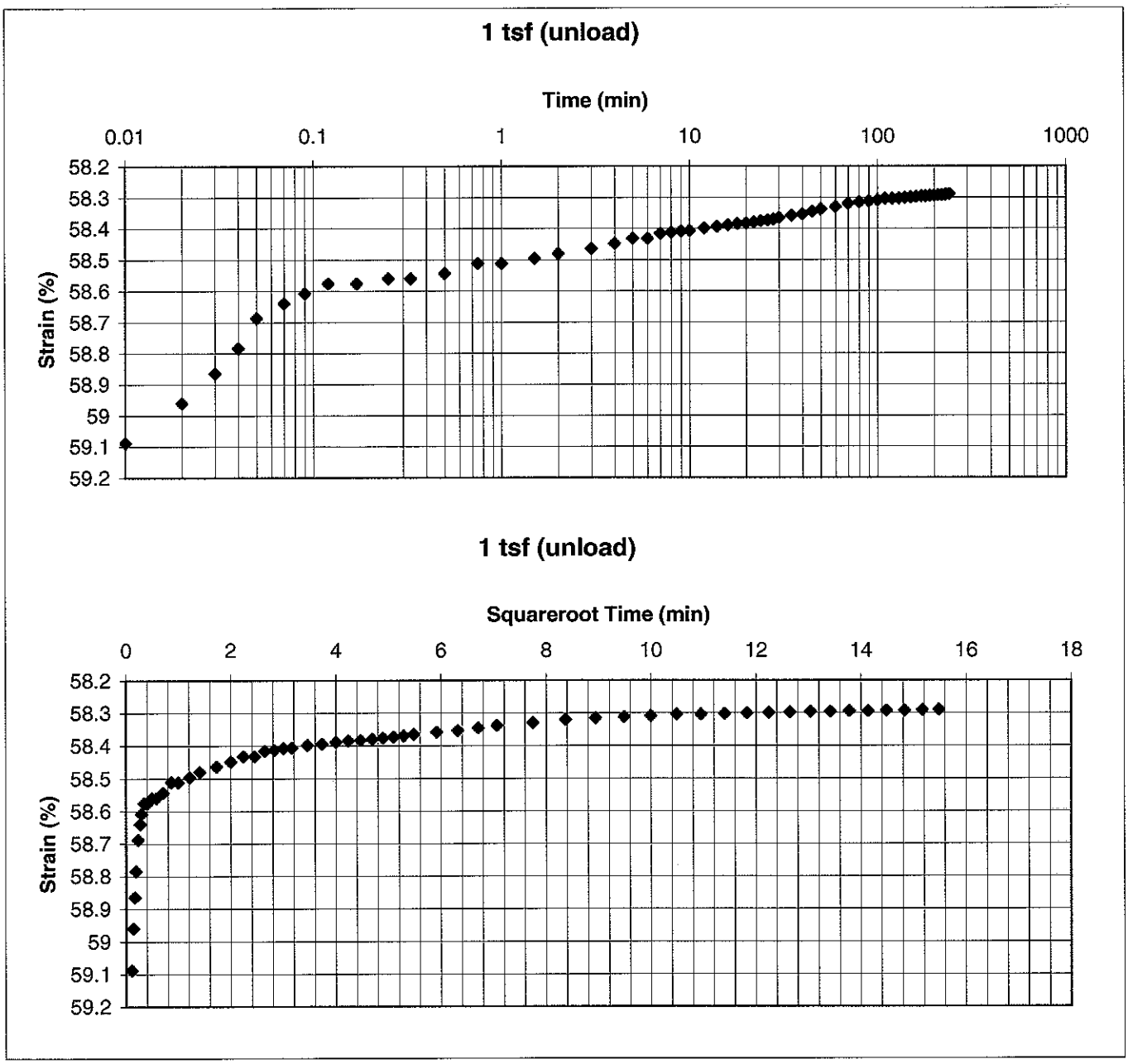
CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 60100	Test Date:	4/25/2007	Depth:	---
	Test No.: CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, very dark gray silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



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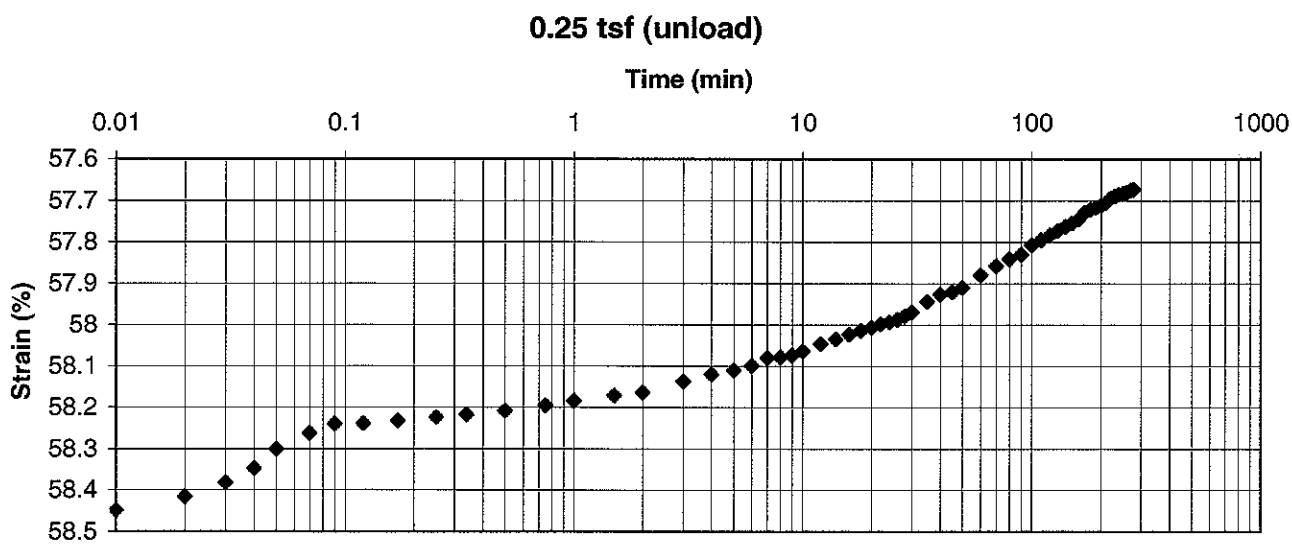
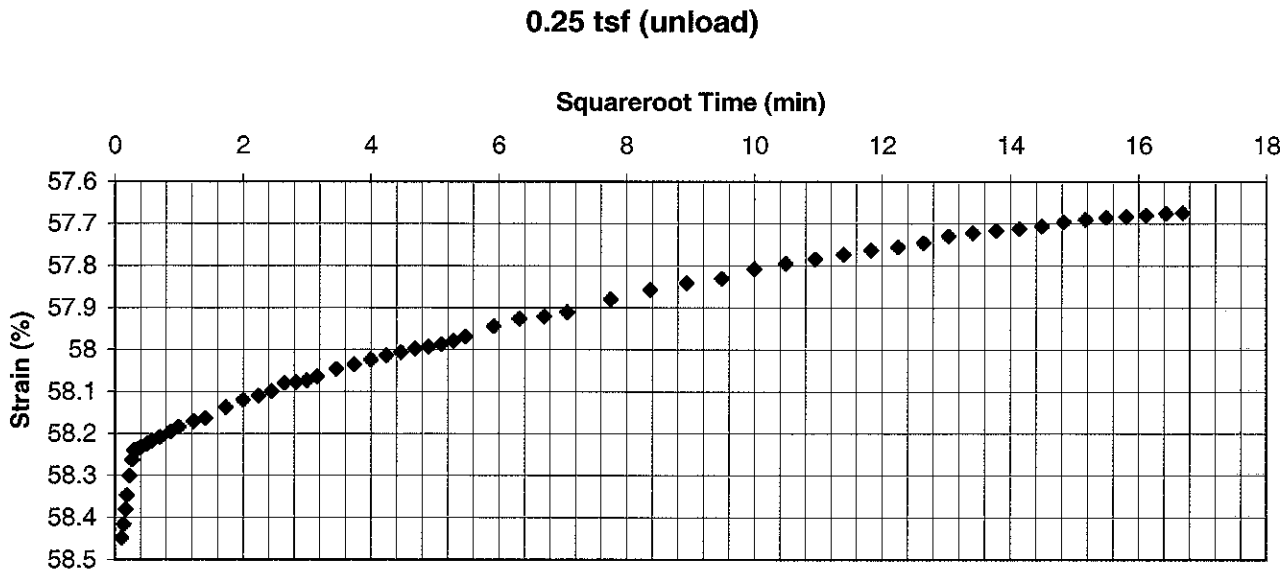
Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	60100	Test Date:	4/25/2007	Depth:	---
Test No.:	CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, very dark gray silt					
Remarks:					

CONSOLIDATION TEST DATA
TIME CURVES





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Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	60100	Test Date:	4/25/2007	Depth:	---
Test No.:	CST 14 (LC-13)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, very dark gray silt					
Remarks:					

GeoTesting express
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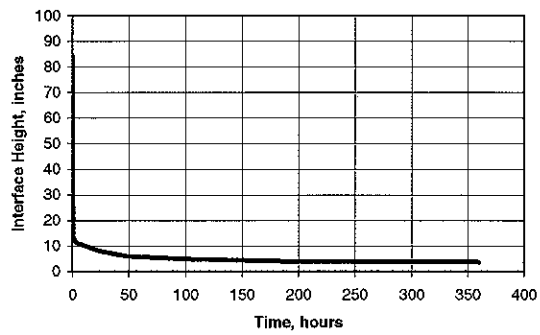
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
04/05/07	10:12 AM	0	0.00	84.0	84.0		
	10:30 AM	18	0.30	84	45.0		
	10:40 AM	38	0.63	84	17.5		
	10:53 AM	41	0.68	84	13.9		
	11:12 AM	60	1.00	82.5	13		
	12:28 PM	136	2.27	81.0	12		
	2:28 PM	256	4.27	79.5	11.1		
04/06/07	10:32 AM	1460	24.33	77.0	8		
04/07/07	10:23 AM	2891	48.18	75.8	6		
04/09/07	10:52 AM	5800	96.67	74.5	5		
04/13/07	10:30 AM	11538	192.30	73.3	4		
04/20/07	10:00 AM	21588	359.80	73.2	3.75		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	28	210	206	2222								
Wet Sample + Tare Wt, g	137.74	146.49	138.49	1025.9								
Dried Sample + Tare Wt, g	70.38	71.53	71.45	463.38								
Tare Wt, g	66.27	66.84	67.50	432.18								
Water Wt, g	67.36	74.96	67.04	562.52								
Dried Sample Wt, g	4.11	4.69	3.95	31.2								
Salt Wt, g	0.050	0.056	0.050	0.417								
Particulates Wt, g	4.060	4.634	3.900	30.783								
Particulates Conc. (g/L)	58.9	60.3	56.9	53.6								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into colu None collected

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	207	115	14	152	86	198	151	84	47	4	194	46
Wet Sample + Tare Wt, g	112.42	109.31	110.41	116.32	109.98	108.97	113.46	123.18	121.55	127.79	112.03	116.82
Dried Sample + Tare Wt, g	67.58	66.23	66.71	68.20	68.11	68.01	67.88	67.58	67.79	66.67	68.35	66.20
Tare Wt, g	67.40	66.06	66.51	67.97	67.92	67.83	67.67	67.34	67.56	66.39	68.15	65.98
Water Wt, g	44.84	43.08	43.70	48.12	41.87	40.96	45.58	55.60	53.76	61.12	43.68	50.62
Dried Sample Wt, g	0.18	0.17	0.20	0.23	0.19	0.18	0.21	0.24	0.23	0.28	0.20	0.22
Salt Wt, g	0.033	0.032	0.032	0.036	0.031	0.030	0.034	0.041	0.040	0.045	0.032	0.038
Particulates Wt, g	0.147	0.138	0.168	0.194	0.159	0.150	0.176	0.199	0.190	0.235	0.168	0.182
Particulates Conc. (g/L)	3.3	3.2	3.8	4.0	3.8	3.6	3.9	3.6	3.5	3.8	3.8	3.6

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	101A	155	171	188	19	179	45	164	167	68	67	105A
Wet Sample + Tare Wt, g	102.18	114.17	108.86	109.10	115.79	116.93	118.05	119.28	117.55	133.13	113.27	114.30
Dried Sample + Tare Wt, g	67.46	67.21	66.88	66.95	67.01	67.98	68.06	67.34	66.96	67.52	68.11	67.75
Tare Wt, g	67.32	66.99	66.70	66.76	66.79	67.76	67.82	67.10	66.74	67.22	67.93	67.55
Water Wt, g	34.72	46.96	41.98	42.15	48.78	48.95	49.99	51.94	50.59	65.61	45.16	46.55
Dried Sample Wt, g	0.14	0.22	0.18	0.19	0.22	0.22	0.24	0.24	0.22	0.30	0.18	0.20
Salt Wt, g	0.026	0.035	0.031	0.031	0.036	0.036	0.037	0.038	0.037	0.049	0.033	0.034
Particulates Wt, g	0.114	0.185	0.149	0.159	0.184	0.184	0.203	0.202	0.183	0.251	0.147	0.166
Particulates Conc. (g/L)	3.3	3.9	3.5	3.8	3.8	3.7	4.1	3.9	3.6	3.8	3.2	3.6

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	44	13	53	48	49	52	96	9	80	99	172	74
Wet Sample + Tare Wt, g	101.95	108.00	110.00	110.61	116.32	115.06	109.33	120.73	115.89	118.03	118.49	124.62
Dried Sample + Tare Wt, g	66.05	65.80	67.94	68.18	67.72	67.89	68.34	67.84	67.61	68.07	67.02	68.06
Tare Wt, g	65.88	65.55	67.73	67.97	67.49	67.66	68.15	67.62	67.37	67.84	66.78	67.75
Water Wt, g	35.90	42.20	42.06	42.43	48.60	47.17	40.99	52.89	48.28	49.96	51.47	56.56
Dried Sample Wt, g	0.17	0.25	0.21	0.21	0.23	0.23	0.19	0.22	0.24	0.23	0.24	0.31
Salt Wt, g	0.027	0.031	0.031	0.031	0.036	0.035	0.030	0.039	0.036	0.037	0.038	0.042
Particulates Wt, g	0.143	0.219	0.179	0.179	0.194	0.195	0.160	0.181	0.204	0.193	0.202	0.268
Particulates Conc. (g/L)	4.0	5.2	4.2	4.2	4.0	4.1	3.9	3.4	4.2	3.9	3.9	4.7

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	181	18	36	1	89	27	108	113	110	163	72
Wet Sample + Tare Wt, g		108.45	112.20	110.11	111.47	113.82	117.38	115.34	108.53	117.52	122.55	111.36
Dried Sample + Tare Wt, g		67.97	67.66	66.15	68.16	66.36	66.00	67.90	65.57	66.43	68.51	67.76
Tare Wt, g		67.78	67.48	65.90	67.96	66.17	65.77	67.70	65.37	66.22	68.26	67.54
Water Wt, g		40.48	44.54	43.96	43.31	47.46	51.38	47.44	42.96	51.09	54.04	43.6
Dried Sample Wt, g		0.19	0.18	0.25	0.2	0.19	0.23	0.2	0.2	0.21	0.25	0.22
Salt Wt, g		0.030	0.033	0.033	0.032	0.035	0.038	0.035	0.032	0.038	0.040	0.032
Particulates Wt, g		0.160	0.147	0.217	0.168	0.155	0.192	0.165	0.168	0.172	0.210	0.188
Particulates Conc. (g/L)		3.9	3.3	4.9	3.9	3.3	3.7	3.5	3.9	3.4	3.9	4.3

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	105	176	75	106	59	186	20	85	3	70	62
Wet Sample + Tare Wt, g		103.85	117.41	107.64	120.73	111.32	109.03	111.94	119.83	113.33	116.55	126.43
Dried Sample + Tare Wt, g		66.31	67.70	68.31	67.45	67.98	67.20	67.95	67.87	66.54	68.00	67.71
Tare Wt, g		66.17	67.58	68.17	67.24	67.76	67.07	67.75	67.61	66.35	67.77	67.46
Water Wt, g		37.54	49.71	39.33	53.28	43.34	41.83	43.99	51.96	46.79	48.55	58.72
Dried Sample Wt, g		0.14	0.12	0.14	0.21	0.22	0.13	0.20	0.26	0.19	0.23	0.25
Salt Wt, g		0.028	0.037	0.029	0.039	0.032	0.031	0.033	0.038	0.035	0.036	0.044
Particulates Wt, g		0.112	0.083	0.111	0.171	0.188	0.099	0.167	0.222	0.155	0.194	0.206
Particulates Conc. (g/L)		3.0	1.7	2.8	3.2	4.3	2.4	3.8	4.3	3.3	4.0	3.5

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	156	60	121	116	209	21	168	57	174	24	178
Wet Sample + Tare Wt, g		107.78	108.98	114.28	114.92	118.57	121.39	117.94	119.49	125.44	129.50	119.34
Dried Sample + Tare Wt, g		66.78	67.96	68.28	68.47	67.26	66.27	68.17	67.82	67.31	67.84	67.42
Tare Wt, g		66.54	67.74	68.04	68.22	67.00	65.99	67.95	67.56	67.03	67.55	67.16
Water Wt, g		41.00	41.02	46.00	46.45	51.31	55.12	49.77	51.67	58.13	61.66	51.92
Dried Sample Wt, g		0.24	0.22	0.24	0.25	0.26	0.28	0.22	0.26	0.28	0.29	0.26
Salt Wt, g		0.030	0.030	0.034	0.034	0.038	0.041	0.037	0.038	0.043	0.046	0.038
Particulates Wt, g		0.210	0.190	0.206	0.216	0.222	0.239	0.183	0.222	0.237	0.244	0.222
Particulates Conc. (g/L)		5.1	4.6	4.5	4.6	4.3	4.3	3.7	4.3	4.1	4.0	4.3

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	100	51	15	54	12	107	180	61	195	153	65
Wet Sample + Tare Wt, g		106.54	112.98	111.94	112.21	113.23	115.93	116.49	118.65	123.01	114.80	116.06
Dried Sample + Tare Wt, g		68.57	67.59	68.33	67.62	66.45	66.50	68.11	68.21	68.31	68.14	67.73
Tare Wt, g		68.40	67.39	68.14	67.46	66.28	66.29	67.92	67.98	68.05	67.92	67.55
Water Wt, g		37.97	45.39	43.61	44.59	46.78	49.43	48.38	50.44	54.70	46.66	48.33
Dried Sample Wt, g		0.17	0.20	0.19	0.16	0.17	0.21	0.19	0.23	0.26	0.22	0.18
Salt Wt, g		0.028	0.034	0.032	0.033	0.035	0.037	0.036	0.037	0.041	0.035	0.036
Particulates Wt, g		0.142	0.166	0.158	0.127	0.135	0.173	0.154	0.193	0.219	0.185	0.144
Particulates Conc. (g/L)		3.7	3.7	3.6	2.8	2.9	3.5	3.2	3.8	4.0	4.0	3.0

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	14	49	159	58	157	25	179	89	27	48	88
Wet Sample + Tare Wt, g		104.22	103.46	112.81	113.81	109.86	109.50	115.27	113.89	110.05	116.97	113.39
Dried Sample + Tare Wt, g		66.69	67.69	67.01	67.62	68.10	68.00	67.97	66.40	65.99	68.24	67.94
Tare Wt, g		66.52	67.51	66.80	67.39	67.91	67.81	67.76	66.17	65.78	68.00	67.73
Water Wt, g		37.53	35.77	45.80	46.19	41.76	41.50	47.30	47.49	44.06	48.73	45.45
Dried Sample Wt, g		0.17	0.18	0.21	0.23	0.19	0.19	0.21	0.23	0.21	0.24	0.21
Salt Wt, g		0.028	0.026	0.034	0.034	0.031	0.031	0.035	0.035	0.033	0.036	0.034
Particulates Wt, g		0.142	0.154	0.176	0.196	0.159	0.159	0.175	0.195	0.177	0.204	0.176
Particulates Conc. (g/L)		3.8	4.3	3.8	4.2	3.8	3.8	3.7	4.1	4.0	4.2	3.9

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.			103	64	36	22	7	14	205	122	5	112
Wet Sample + Tare Wt, g			106.14	109.57	108.29	104.39	105.12	112.67	116.79	115.47	115.47	118.5
Dried Sample + Tare Wt, g			67.75	67.47	66.14	66.4	68.29	66.73	66.76	67.51	67.51	67.95
Tare Wt, g			67.59	67.27	65.95	66.23	68.11	66.51	66.52	67.29	67.29	67.72
Water Wt, g			38.39	42.1	42.15	37.99	36.83	45.94	50.03	47.96	47.96	50.55
Dried Sample Wt, g			0.16	0.2	0.19	0.17	0.18	0.22	0.24	0.22	0.22	0.23
Salt Wt, g			0.028	0.031	0.031	0.028	0.027	0.034	0.037	0.036	0.036	0.037
Particulates Wt, g			0.132	0.169	0.159	0.142	0.153	0.186	0.203	0.184	0.184	0.193
Particulates Conc. (g/L)			3.4	4.0	3.8	3.7	4.1	4.0	4.0	3.8	3.8	3.8

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	174	57	79	168	21	62	175	118	24	173	170	65
Dry Particulates + Filter Paper Wt, g	0.0873	0.1032	0.1022	0.1069	0.1052	0.0980	0.0997	0.0963	0.1043	0.0964	0.1040	0.0971
Filter Paper Wt, g	0.0786	0.0808	0.0844	0.0876	0.0871	0.0794	0.0813	0.0781	0.0859	0.0783	0.0861	0.0791
Dry Particulates Wt, g	0.0087	0.0224	0.0178	0.0193	0.0181	0.0186	0.0184	0.0182	0.0184	0.0181	0.0179	0.0180
Volume (mL)	100	110	100	100	100	100	100	100	100	100	100	100
Particulates TSS Conc. (mg/L)	87.000	203.636	178.000	193.000	181.000	186.000	184.000	182.000	184.000	181.000	179.000	180.000
Turbidity (NTU)	240	250	260	260	270	250	230	230	250	230	250	240

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	15	51	50	8	11	54	199	195	177	180	182	153
Dry Particulates + Filter Paper Wt, g	0.0962	0.0951	0.0960	0.1038	0.0955	0.1029	0.0966	0.0964	0.0943	0.1020	0.0953	0.1027
Filter Paper Wt, g	0.0813	0.0789	0.0791	0.0869	0.0771	0.0855	0.0792	0.0787	0.0776	0.0849	0.0781	0.0861
Dry Particulates Wt, g	0.0149	0.0162	0.0169	0.0169	0.0184	0.0174	0.0174	0.0177	0.0167	0.0171	0.0172	0.0166
Volume (mL)	100	100	100	100	100	100	100	100	100	100	100	100
Particulates TSS Conc. (mg/L)	149.000	162.000	169.000	169.000	184.000	174.000	174.000	177.000	167.000	171.000	172.000	166.000
Turbidity (NTU)	220	230	240	250	260	270	260	270	270	260	260	250

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	176	6	105	106	58	59	100A	23	100	63	61	64
Dry Particulates + Filter Paper Wt, g	0.0962	0.0988	0.0970	0.0997	0.0901	0.0917	0.0906	0.0890	0.0993	0.0990	0.0923	0.0976
Filter Paper Wt, g	0.0852	0.0875	0.0849	0.0874	0.0776	0.0794	0.0774	0.0821	0.0874	0.0861	0.0797	0.0854
Dry Particulates Wt, g	0.0110	0.0113	0.0121	0.0123	0.0125	0.0123	0.0132	0.0069	0.0119	0.0129	0.0126	0.0122
Volume (mL)	110	100	100	100	100	100	100	100	100	100	100	100
Particulates TSS Conc. (mg/L)	100.000	113.000	121.000	123.000	125.000	123.000	132.000	69.000	119.000	129.000	126.000	122.000
Turbidity (NTU)	130	150	160	180	170	180	180	190	180	190	160	170

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	20	70	85	186	77	107	71	75	3	12	2
Dry Particulates + Filter Paper Wt, g		0.0902	0.0949	0.0965	0.0977	0.0888	0.0883	0.0904	0.0971	0.0970	0.0956	0.0947
Filter Paper Wt, g		0.0817	0.0856	0.0877	0.0880	0.0797	0.0792	0.0813	0.0881	0.0875	0.0860	0.0860
Dry Particulates Wt, g		0.0085	0.0093	0.0088	0.0097	0.0091	0.0091	0.0091	0.0090	0.0095	0.0096	0.0087
Volume (mL)		100	103	105	110	97	101	100	100	101	100	100
Particulates TSS Conc. (mg/L)		85.000	90.291	83.810	88.182	93.814	90.099	91.000	90.000	94.059	96.000	87.000
Turbidity (NTU)		120	130	130	130	130	130	130	130	130	130	130

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	107	6	100	79	100A	23	63	64	61	12	65
Dry Particulates + Filter Paper Wt, g		0.0902	0.0921	0.0889	0.0919	0.0845	0.0856	0.0870	0.0920	0.0839	0.0881	0.0915
Filter Paper Wt, g		0.0861	0.0877	0.0848	0.0867	0.0797	0.0798	0.0813	0.0874	0.0792	0.0840	0.0873
Dry Particulates Wt, g		0.0041	0.0044	0.0041	0.0052	0.0048	0.0058	0.0057	0.0046	0.0047	0.0041	0.0042
Volume (mL)		124	126	121	120	127	129	125	120	115	115	115
Particulates TSS Conc. (mg/L)		33.065	34.921	33.884	43.333	37.795	44.961	45.600	38.333	40.870	35.652	36.522
Turbidity (NTU)		40	40	45	40	45	45	45	45	45	45	45

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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	50	11	180	6	63	23	100	182	107	12	64
Dry Particulates + Filter Paper Wt, g		0.0852	0.0829	0.0848	0.0829	0.0858	0.0892	0.0897	0.0878	0.0867	0.0877	0.0912
Filter Paper Wt, g		0.0831	0.0800	0.0823	0.0796	0.0826	0.0859	0.0868	0.0847	0.0838	0.0847	0.0878
Dry Particulates Wt, g		0.0021	0.0029	0.0025	0.0033	0.0032	0.0033	0.0029	0.0031	0.0029	0.0030	0.0034
Volume (mL)		94	97	99	96	109	107	96	103	96	100	101
Particulates TSS Conc. (mg/L)		22.340	29.897	25.051	34.375	29.358	30.841	30.208	30.097	30.208	30.000	33.663
Turbidity (NTU)		25	29	25	26	26	26	28	29	28	30	30

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	50	6	8	11	182	64	63	177	23	79	199
Dry Particulates + Filter Paper Wt, g		0.0802	0.0890	0.0864	0.0868	0.0820	0.0903	0.0866	0.0830	0.0898	0.0904	0.0879
Filter Paper Wt, g		0.0770	0.0858	0.0832	0.0830	0.0791	0.0870	0.0832	0.0797	0.0866	0.0870	0.0840
Dry Particulates Wt, g		0.0032	0.0032	0.0032	0.0038	0.0029	0.0033	0.0034	0.0033	0.0032	0.0034	0.0039
Volume (mL)		120	125	120	120	120	120	120	120	120	120	120
Particulates TSS Conc. (mg/L)		26.667	25.600	26.667	31.667	24.167	27.500	28.333	27.500	26.667	28.333	32.500
Turbidity (NTU)		16	17	17	21	16	17	16	18	18	20	21

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Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	181	118	177	160	59	46	23	120	199	77	176
Dry Particulates + Filter Paper Wt, g		0.0900	0.0922	0.0874	0.0884	0.0885	0.0833	0.0902	0.0898	0.0874	0.0836	0.0877
Filter Paper Wt, g		0.0858	0.0884	0.0840	0.0844	0.0844	0.0800	0.0866	0.0859	0.0833	0.0798	0.0837
Dry Particulates Wt, g		0.0042	0.0038	0.0034	0.0040	0.0041	0.0033	0.0036	0.0039	0.0041	0.0038	0.0040
Volume (mL)		138	129	131	142	138	131	126	135	125	140	140
Particulates TSS Conc. (mg/L)		30.435	29.457	25.954	28.169	29.710	25.191	28.571	28.889	32.800	27.143	28.571
Turbidity (NTU)		13	14	14	14	13	13	13	14	14	15	15

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70048	CST Test #:	13
Test Start Date:	4/5/2007	Tested By:	md
Test Start Time:	10:12	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.			39	82	198	99	25	49	156	54	167	6
Dry Particulates + Filter Paper Wt, g			0.0794	0.0878	0.0824	0.0905	0.0788	0.0795	0.082	0.0856	0.0878	0.0811
Filter Paper Wt, g			0.0766	0.0858	0.0804	0.0887	0.0767	0.0767	0.0801	0.0833	0.0858	0.0791
Dry Particulates Wt, g			0.0028	0.002	0.002	0.0018	0.0021	0.0028	0.0019	0.0023	0.002	0.002
Volume (mL)			130	132	132	132	132	132	129	133	135	128
Particulates TSS Conc. (mg/L)			21.538	15.152	15.152	13.636	15.909	21.212	14.729	17.293	14.815	15.625
Turbidity (NTU)			8	8	8	8	8	8	8	7	7	8

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-70048	Test Date:	05/23/07	Checked By:	n/a
Depth :	---	Sample Id:	50278		
Test Comment:	---				
Sample Description:	Moist, grayish brown silt				
Sample Comment:	----				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-70048	---	Moist, grayish brown silt	46.4

Notes: Temperature of Drying : 110° Celsius

printed 5/23/2007 10:03:33 AM

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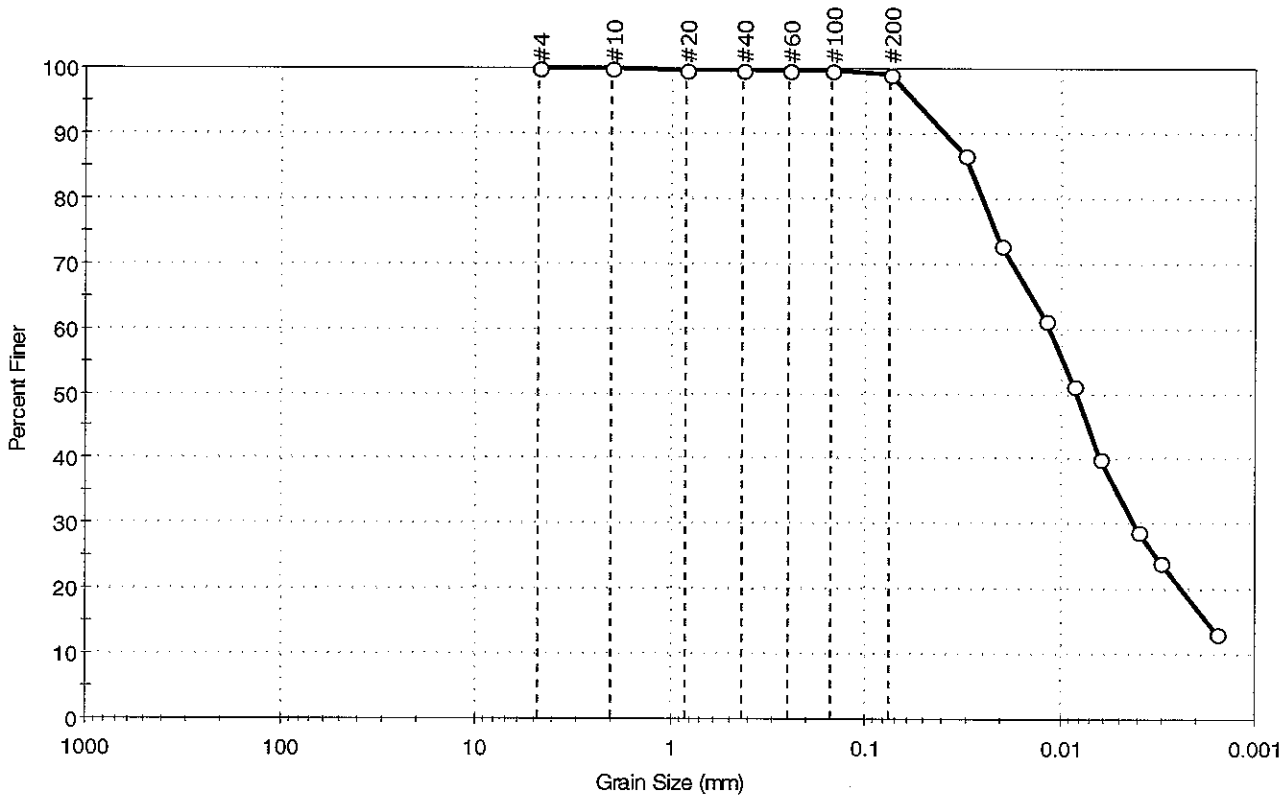
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:	OL-STA-70048	Test Date:	04/27/07	Checked By:	jdt
Depth :	---	Test Id:	109702		
Test Comment:	---				
Sample Description:	Moist, grayish brown silt				
Sample Comment:	----				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.0	99.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	99		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0311	87		
---	0.0202	73		
---	0.0119	61		
---	0.0087	51		
---	0.0063	40		
---	0.0040	29		
---	0.0031	24		
---	0.0016	13		

Coefficients

D_{85} = 0.0295 mm D_{30} = 0.0042 mm
D_{60} = 0.0114 mm D_{15} = 0.0017 mm
D_{50} = 0.0083 mm D_{10} = 0.0013 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (33))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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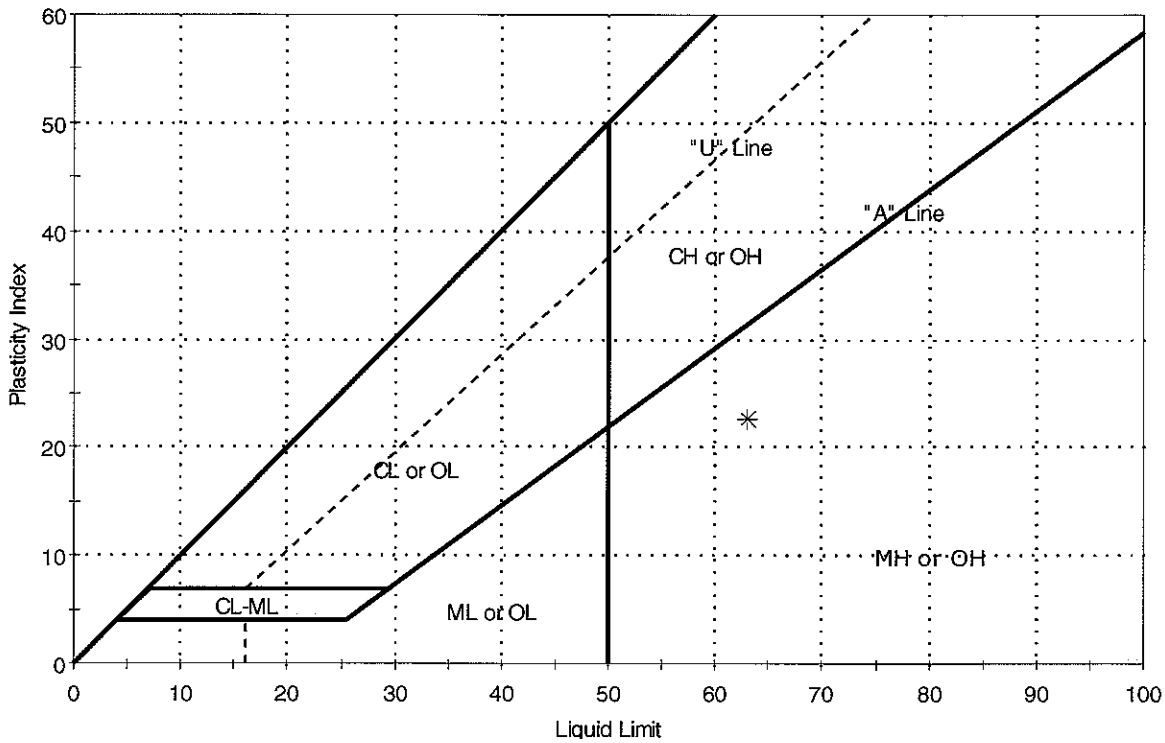
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-70048		Test Date:	04/27/07	Checked By:	jdt
Depth : ---		Test Id:	109719		
Test Comment:	---				
Sample Description:	Moist, grayish brown silt				
Sample Comment:	----				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-70048	---	---	46	63	41	22	0	elastic silt (MH)

Sample Prepared using the WET method
0% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: RAPID
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-70048	Test Date:	05/15/07	Checked By:	jdt
Depth :	---	Test Id:	109753		
Test Comment:	---				
Sample Description:	Moist, grayish brown silt				
Sample Comment:	----				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-70048	---	Moist, grayish brown silt	2.6

Moisture Content determined by ASTM D 2216.

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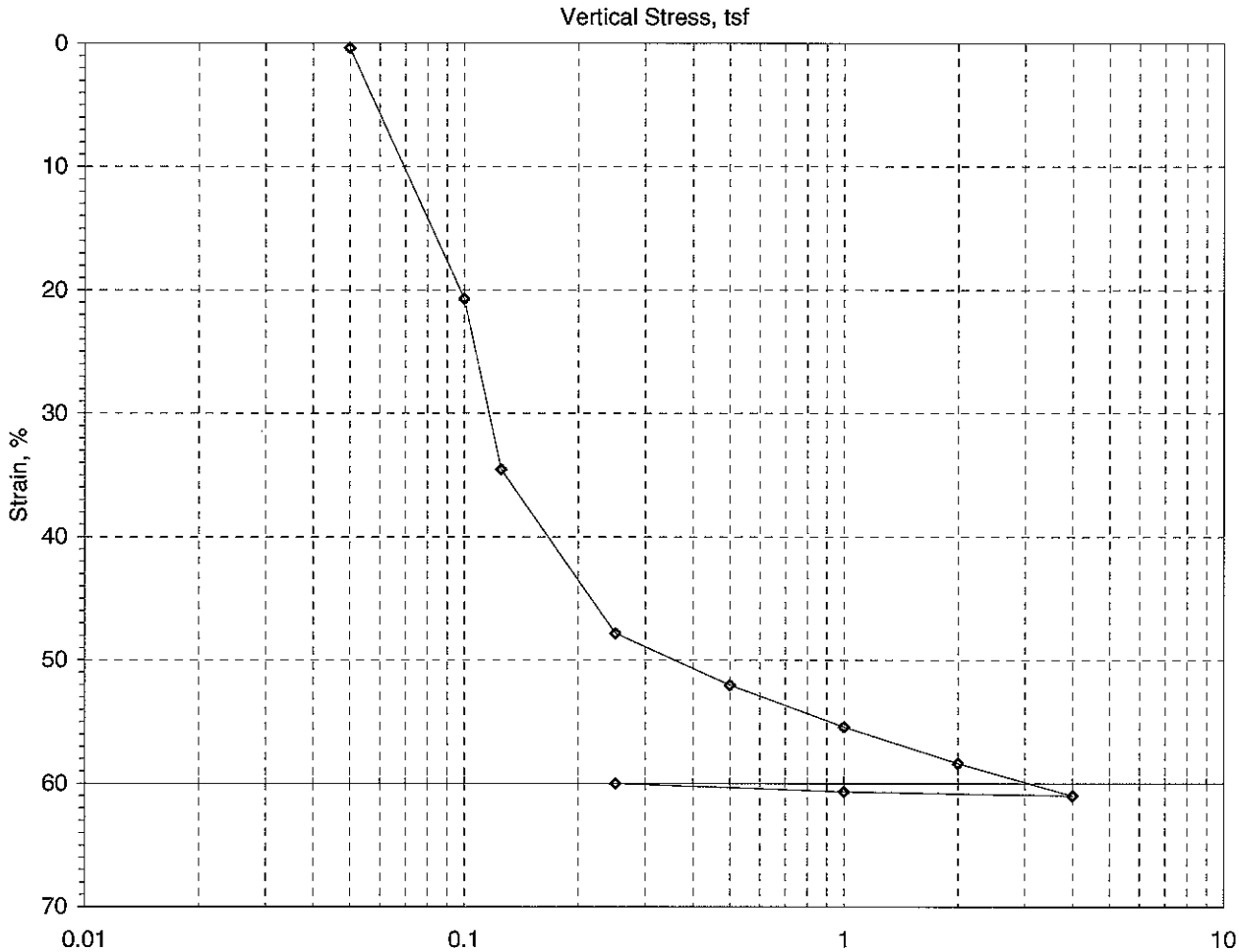
Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	04/24/07
Tested by:	md
Checked by:	jdt

Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-70048	Moist, grayish brown silt	0.45	0.33	0.34	0.38	0.37

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA
SUMMARY REPORT



					Before Test	After Test
Overburden Pressure, psf:	---			Water Content, %	163	37
Preconsolidation Pressure, psf:	---			Dry Unit Weight, pcf	30.9	56.9
Compression Index:	---			Saturation, %	100.0	99.9
Diameter:	11.0 in	Initial Height: 3.75 in		Void Ratio	3.67	0.85
LL: 63	PL: 41	PI 22	GS: 2.31			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 70048
Test No.:CST 13 (LC-11)

Location: Syracuse, NY
Tested By: md
Test Date: 04/20/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, grayish brown silt
Remarks: System Q

Measured Specific Gravity: 2.31
Initial Void Ratio: 3.67
Final Void Ratio: 0.85

Liquid Limit: 63
Plastic Limit: 41
Plasticity Index: 22

Initial Height: 3.75 in
Specimen Diameter: 11.00 in

		Before Consolidation		After Consolidation	
		Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID		159	RING		books
Wt. Container + Wet Soil,	gm	114.41	23920	20400	226.24
Wt. Container + Dry Soil,	gm	84.87	19333	19333	167.41
Wt. Container, gm		66.78	16440	16440	7.94
Wt. Dry Soil, gm		18.09	2892.8	2891.8	159.47
Water Content, %		163.3	158.6	36.9	36.9
Void Ratio		---	3.67	0.85	---
Degree of Saturation, %		---	100.0	99.9	---
Dry Unit Weight, pcf		---	30.9	56.9	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 70048
Test No.: CST 13 (LC-11)

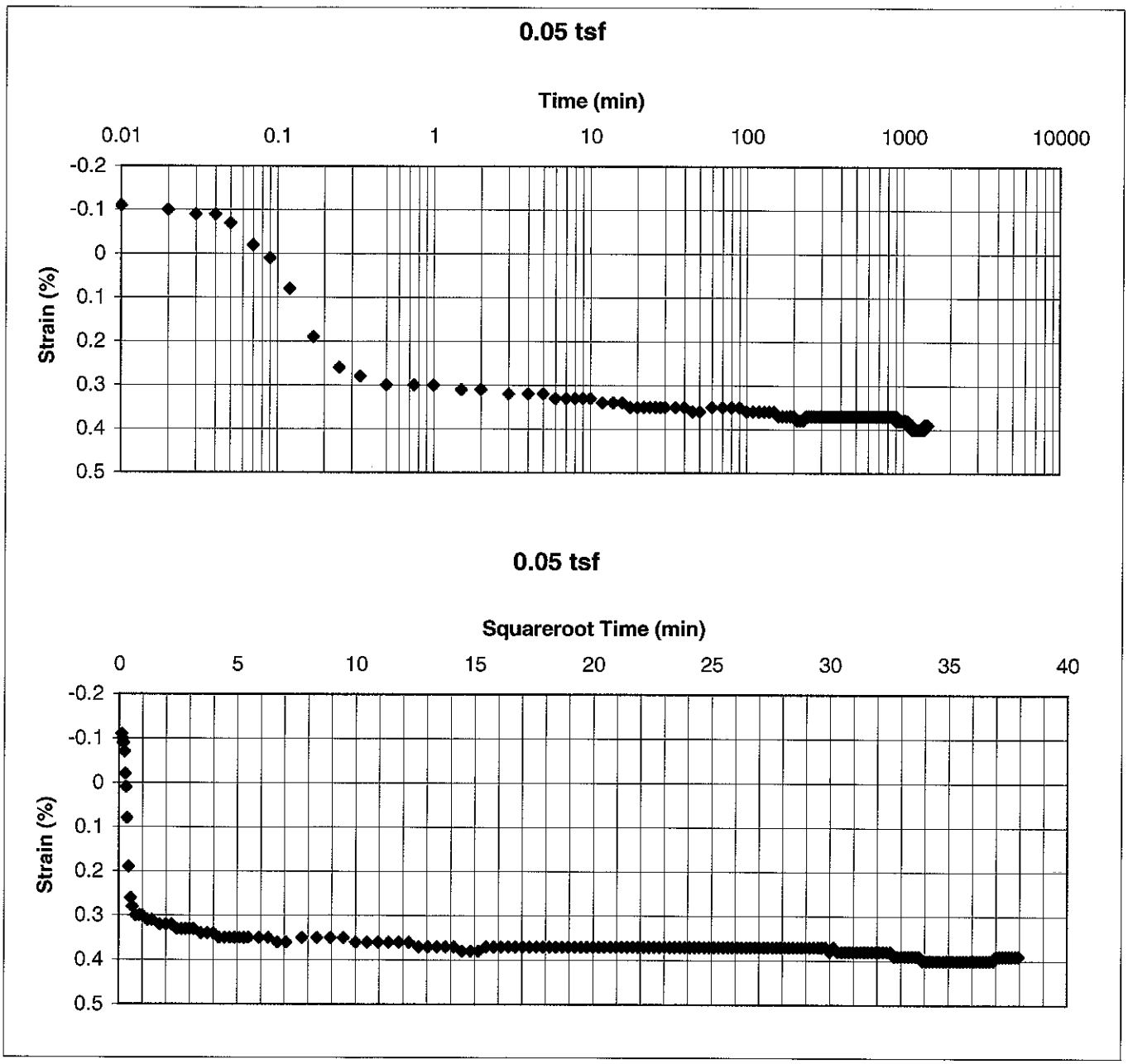
Location: Syracuse, NY
Tested By: md
Test Date: 04/20/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, grayish brown silt
Remarks: System Q

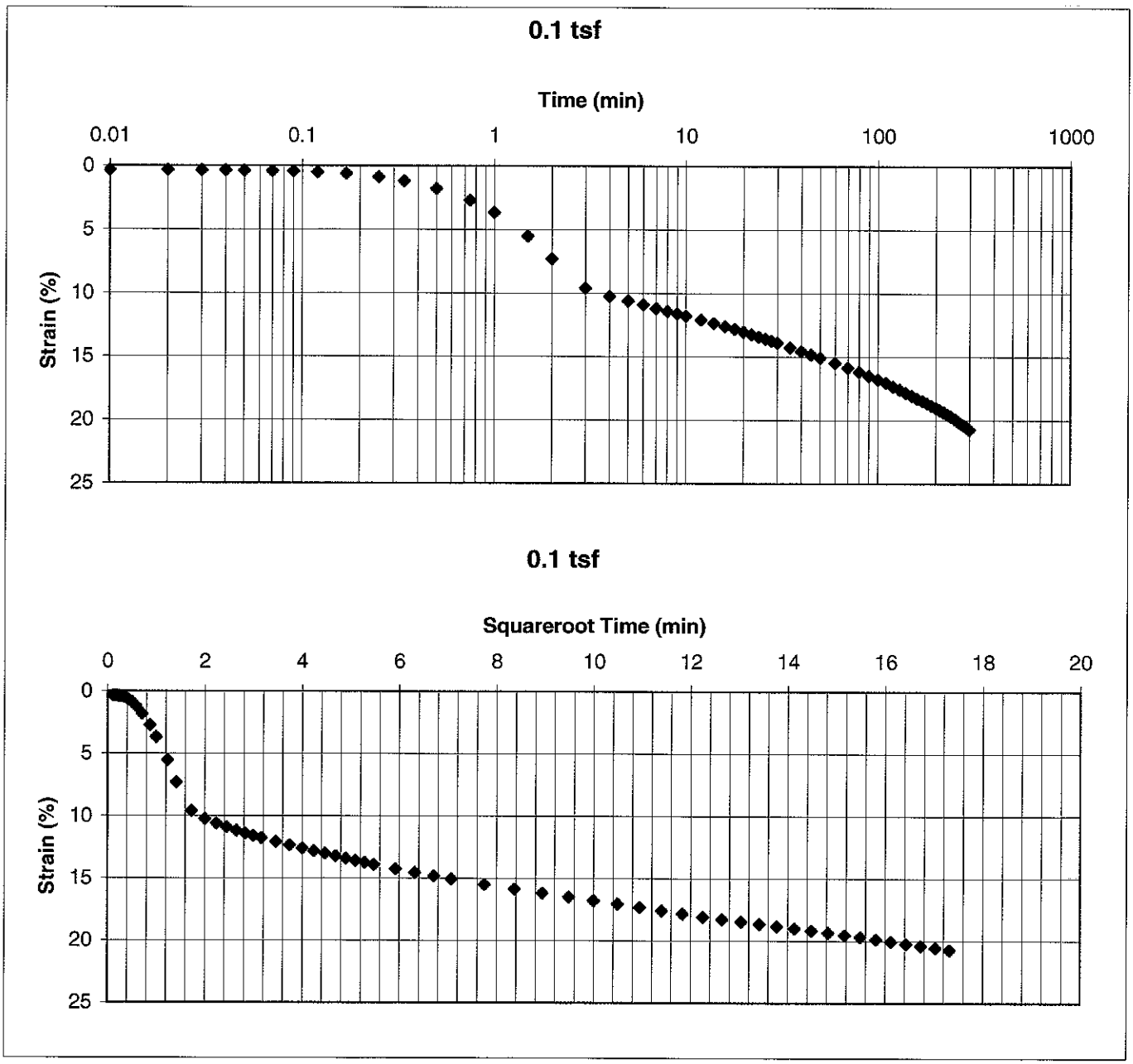
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sqrt min	T50 Fitting Log min	Coefficient of Consolidation Sqrt in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave in^2/sec
1	0.05	0.01469	3.645	0.392	0.2	0	2.26E-01	0.00E+00	2.26E-01
2	0.1	0.7772	2.697	20.725	8.7	0	4.25E-03	0.00E+00	4.25E-03
3	0.125	1.295	2.053	34.533	0	0	0.00E+00	0.00E+00	0.00E+00
4	0.25	1.7936	1.4211	47.829	87.5	80.9	5.06E-04	5.47E-04	5.26E-04
5	0.5	1.9516	1.2244	52.043	32.4	34.1	1.25E-03	1.19E-03	1.22E-03
6	1	2.0781	1.0669	55.416	16.1	14.3	2.31E-03	2.61E-03	2.45E-03
7	2	2.189	0.9289	58.373	10.5	9.4	3.30E-03	3.69E-03	3.48E-03
8	4	2.288	0.8056	61.013	6.4	6.1	5.06E-03	5.36E-03	5.20E-03
9	1	2.2752	0.8216	60.672	0	0	9.55E-01	7.88E-01	8.64E-01
10	0.25	2.2501	0.8528	60.003	4.1	0	7.89E-03	0.00E+00	7.89E-03

CONSOLIDATION TEST DATA
TIME CURVES



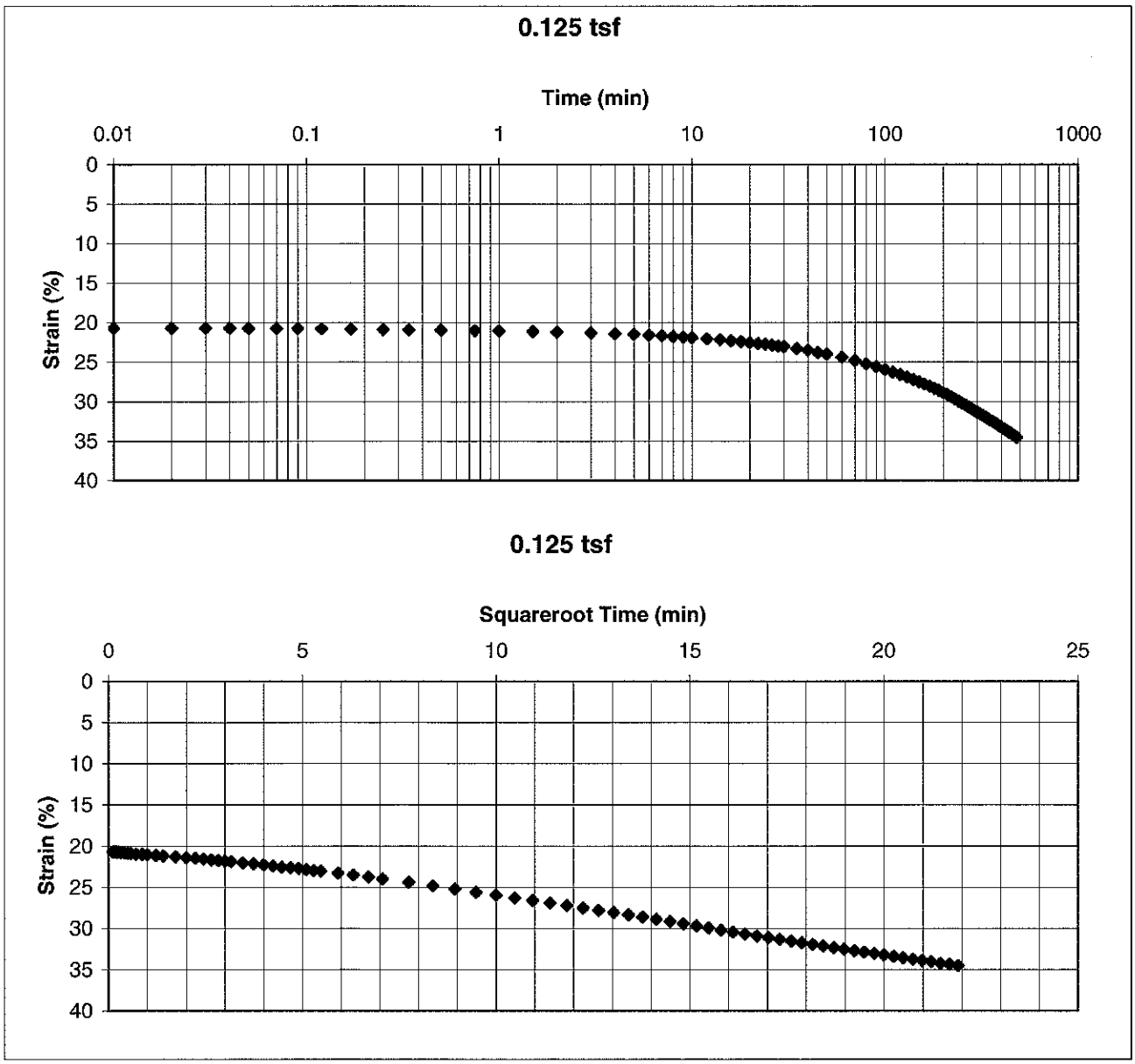
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



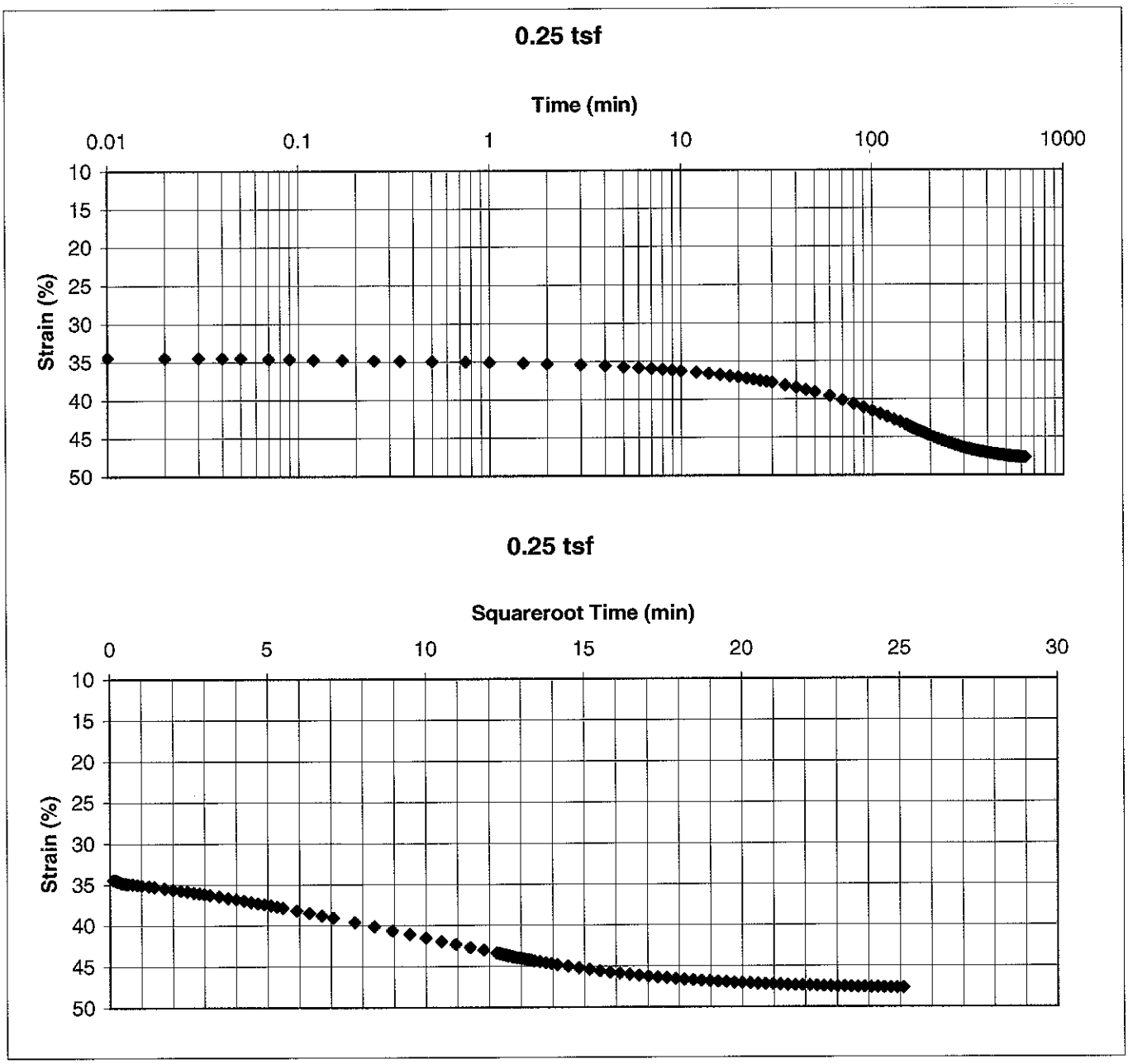
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST-13 (LC11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

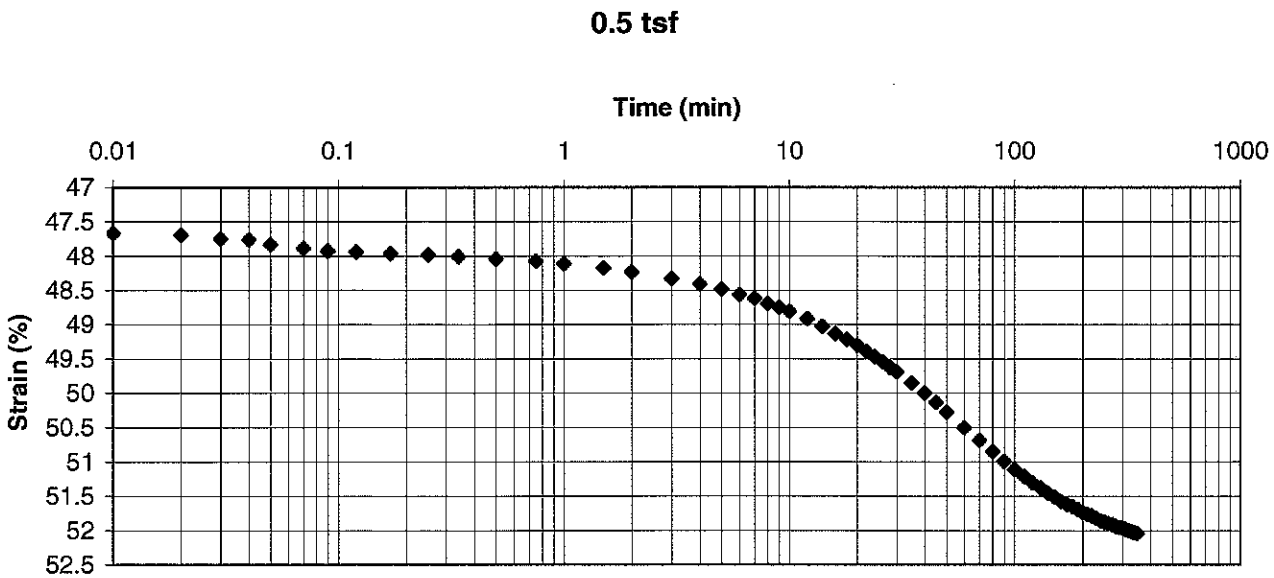
CONSOLIDATION TEST DATA
TIME CURVES

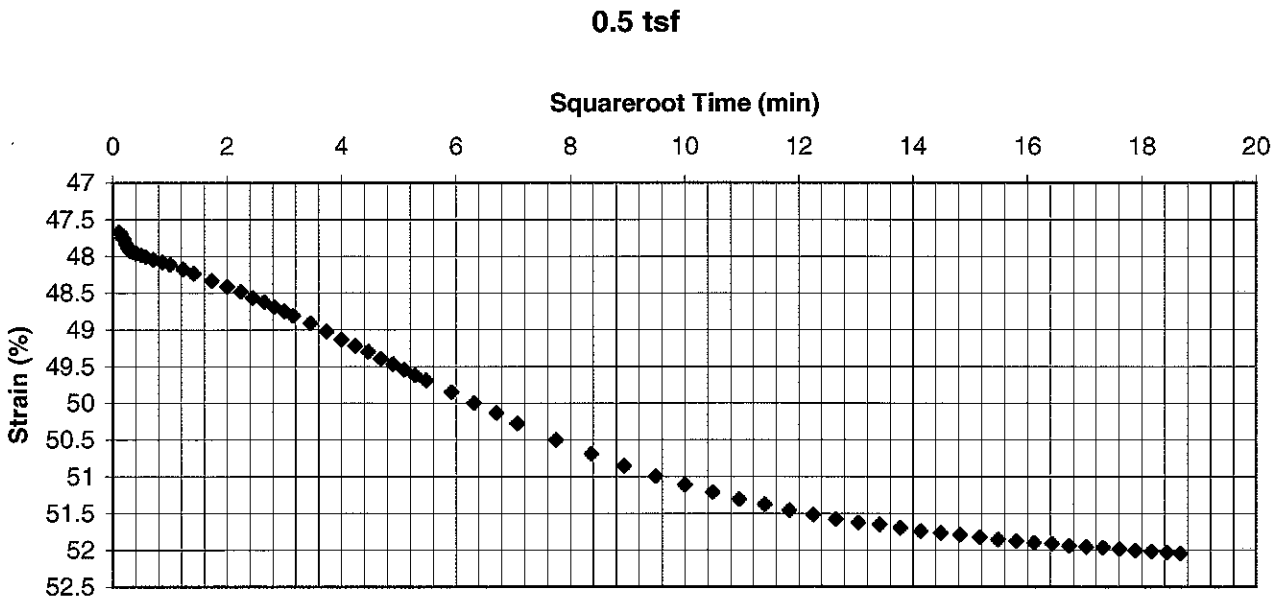


GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA

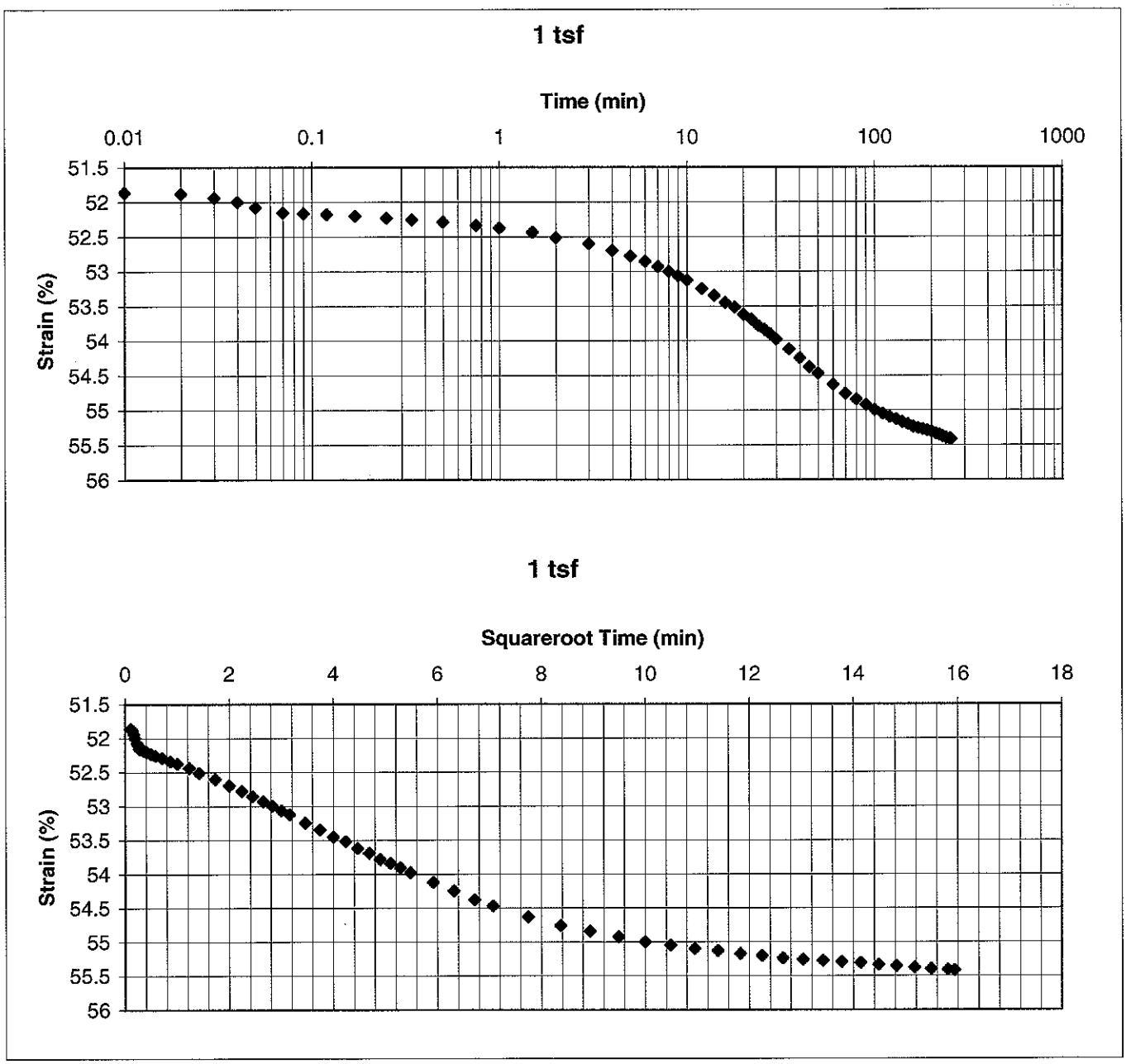
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



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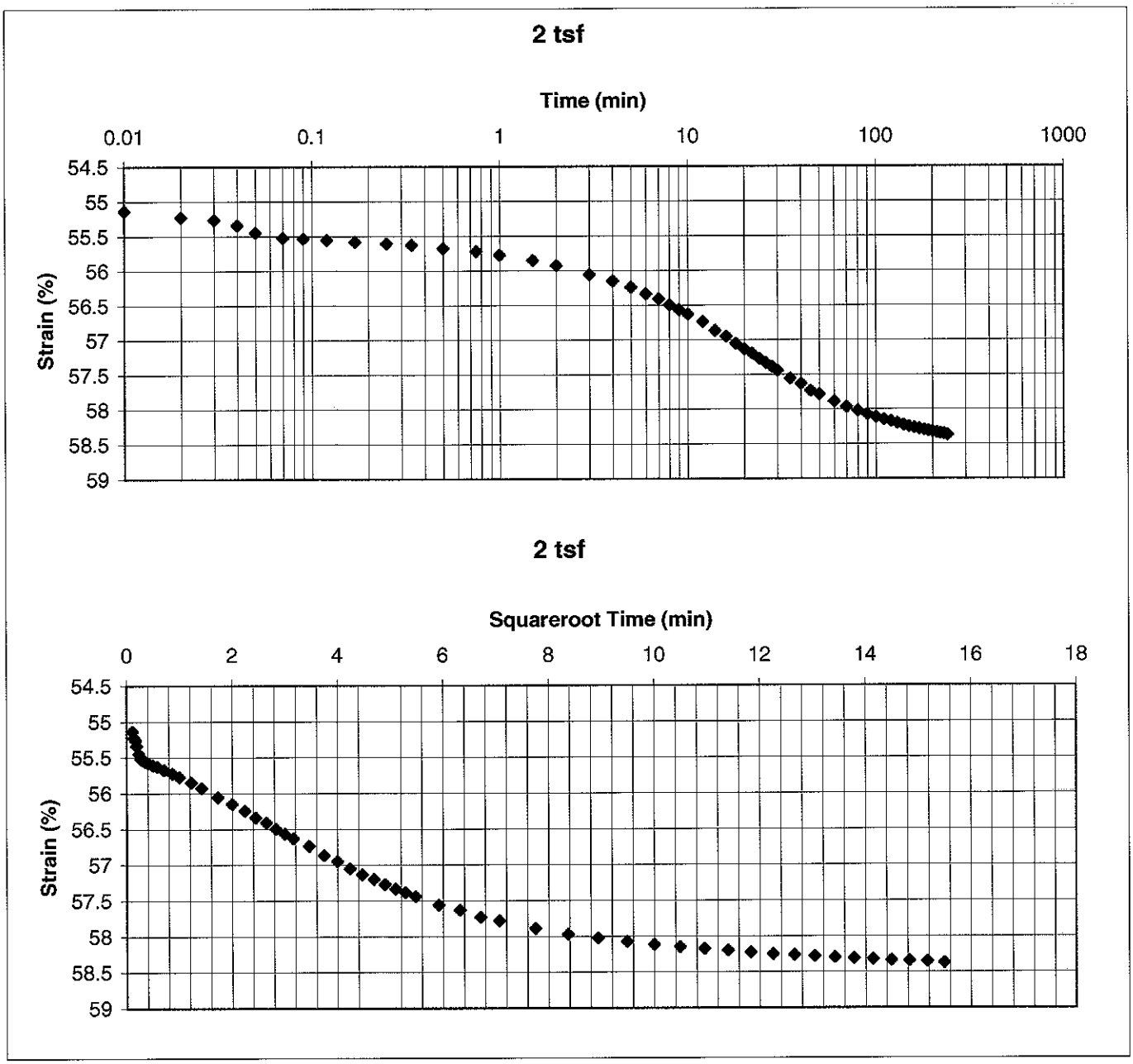
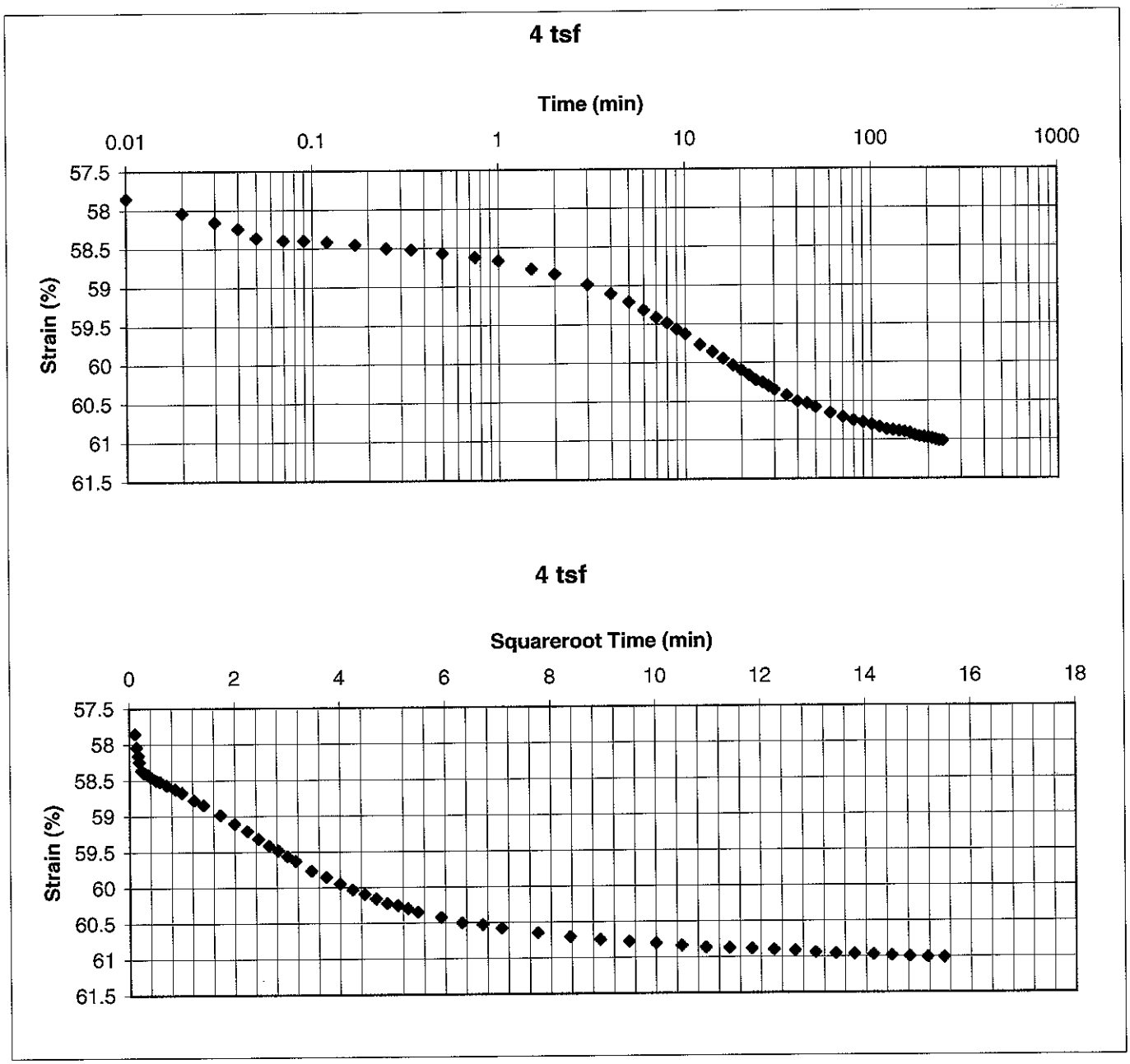
Project: Onondaga		Location:	Syracuse, NY	Project No.:	GTX-7143
Boring No.:	---	Tested By:	md	Checked By:	jdt
Sample No.:	70048	Test Date:	4/20/2007	Depth:	---
Test No.:	CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
Soil Description: Moist, grayish brown silt					
Remarks:					

CONSOLIDATION TEST DATA
TIME CURVES



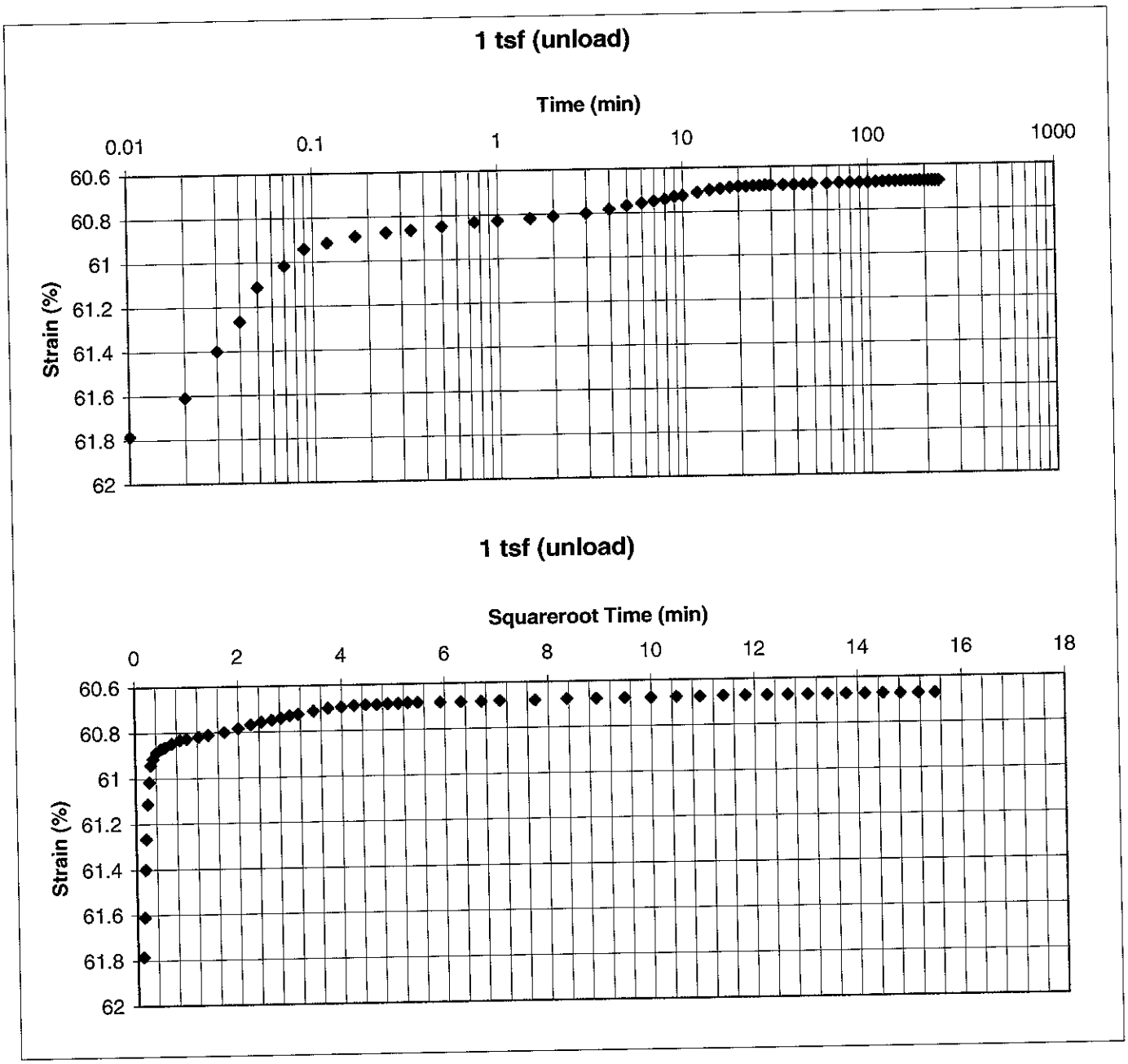
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES



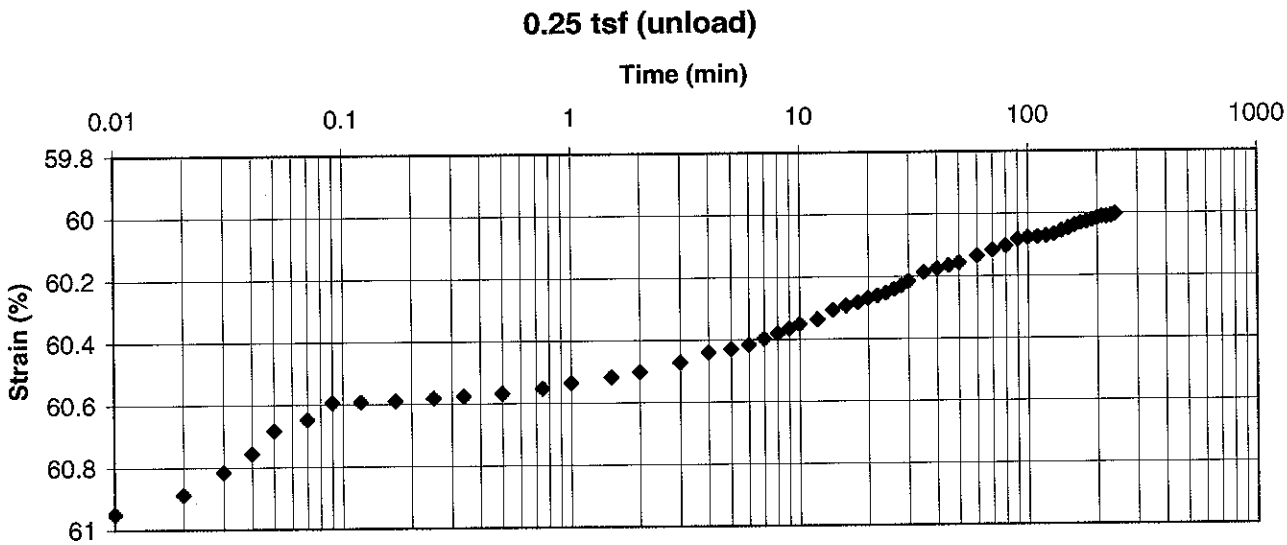
GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

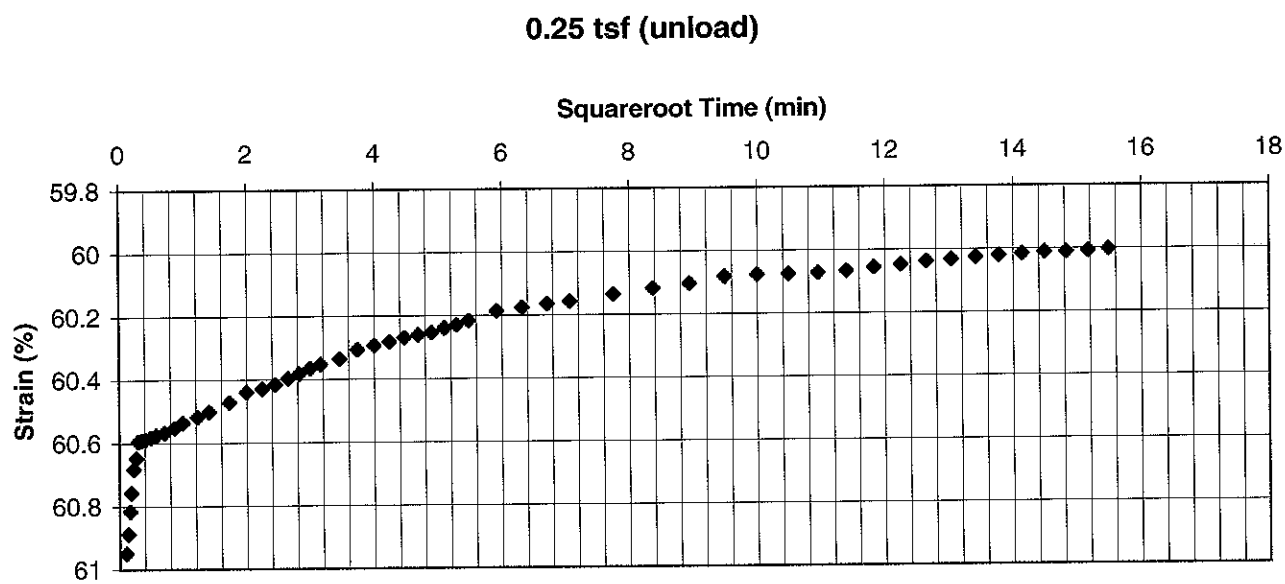
CONSOLIDATION TEST DATA
TIME CURVES



GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

CONSOLIDATION TEST DATA
TIME CURVES





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location:	Syracuse, NY	Project No.:	GTX-7143
	Boring No.: ---	Tested By:	md	Checked By:	jdt
	Sample No.: 70048	Test Date:	4/20/2007	Depth:	---
	Test No.: CST 13 (LC-11)	Sample Type:	column settling	Elevation:	---
	Soil Description: Moist, grayish brown silt				
	Remarks:				

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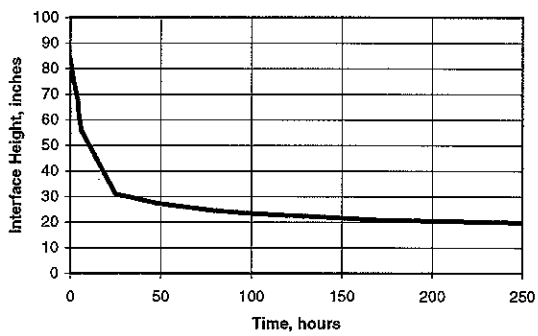
Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/23/07	8:45 AM	0	0.00	83.6	83.6		
	9:00 AM	15	0.25	83.6	82.6		
	9:04 AM	19	0.32	83.6	82.3		
	9:10 AM	25	0.42	83.6	81.8		
	9:27 AM	42	0.70	83.6	80.5		
	10:45 AM	120	2.00	83.5	74.8		
	12:45 PM	240	4.00	83.1	68		
	1:30 PM	285	4.75	83.1	61.8		
	2:00 PM	315	5.25	83.1	59.6		
	2:50 PM	365	6.08	82.6	55.9		
03/24/07	9:45 AM	1500	25.00	82	31		
03/25/07	9:00 AM	2895	48.25	82	27.3		
03/26/07	3:50 PM	4745	79.08	82	24.5		
03/27/07	9:15 AM	5790	96.50	79.9	23.5		
03/30/07	9:45 AM	10140	169.00	78.9	20.9		
04/07/07	9:30 AM	21645	360.75	77.7	18.2		



GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column none collected

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

No interface visible yet

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour No interface visible yet

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	4											
Wet Sample + Tare Wt, g	112.53											
Dried Sample + Tare Wt, g	66.48											
Tare Wt, g	66.37											
Water Wt, g	46.05											
Dried Sample Wt, g	0.11											
Salt Wt, g	0.025											
Particulates Wt, g	0.085											
Particulates Conc. (g/L)	1.9											

GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	67	68										
Wet Sample + Tare Wt, g	112.32	111.14										
Dried Sample + Tare Wt, g	68.00	67.34										
Tare Wt, g	67.91	67.26										
Water Wt, g	44.32	43.8										
Dried Sample Wt, g	0.09	0.08										
Salt Wt, g	0.024	0.023										
Particulates Wt, g	0.066	0.057										
Particulates Conc. (g/L)	1.5	1.3										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	19	25	23	21								
Wet Sample + Tare Wt, g	109.10	108.41	109.41	109.52								
Dried Sample + Tare Wt, g	66.84	67.86	68.44	66.11								
Tare Wt, g	66.77	67.77	68.33	66.00								
Water Wt, g	42.26	40.55	40.97	43.41								
Dried Sample Wt, g	0.07	0.09	0.11	0.11								
Salt Wt, g	0.023	0.022	0.022	0.023								
Particulates Wt, g	0.047	0.068	0.088	0.087								
Particulates Conc. (g/L)	1.1	1.7	2.1	2.0								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	174	172	170	173	169	175	176	168				
Wet Sample + Tare Wt, g	104.51	110.26	112.26	117.42	115.50	106.62	111.52	109.68				
Dried Sample + Tare Wt, g	67.12	66.86	68.17	68.63	67.11	67.44	67.56	68.05				
Tare Wt, g	67.09	66.82	68.12	68.58	67.08	67.40	67.52	68.01				
Water Wt, g	37.39	43.4	44.09	48.79	48.39	39.18	43.96	41.63				
Dried Sample Wt, g	0.03	0.04	0.05	0.05	0.03	0.04	0.04	0.04				
Salt Wt, g	0.020	0.023	0.024	0.026	0.026	0.021	0.024	0.022				
Particulates Wt, g	0.010	0.017	0.026	0.024	0.004	0.019	0.016	0.018				
Particulates Conc. (g/L)	0.3	0.4	0.6	0.5	0.1	0.5	0.4	0.4				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	115	114	109	118	117	164	162	135				
Wet Sample + Tare Wt, g	108.67	115.07	117.74	118.1	121.98	122.68	128.88	126.74				
Dried Sample + Tare Wt, g	66.09	68.28	68.27	66.08	66.88	67.2	66.82	68.16				
Tare Wt, g	66.06	68.24	68.18	66.02	66.81	67.09	66.71	68.05				
Water Wt, g	42.58	46.79	49.47	52.02	55.1	55.48	62.06	58.58				
Dried Sample Wt, g	0.03	0.04	0.09	0.06	0.07	0.11	0.11	0.11				
Salt Wt, g	0.023	0.025	0.027	0.028	0.030	0.030	0.033	0.031				
Particulates Wt, g	0.007	0.015	0.063	0.032	0.040	0.080	0.077	0.079				
Particulates Conc. (g/L)	0.2	0.3	1.3	0.6	0.7	1.4	1.2	1.3				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	58	99	59	57	64	60	65	63	62	61		
Wet Sample + Tare Wt, g	105.05	117.03	111.54	109.99	124.88	107.65	117.58	120.24	124.05	121.99		
Dried Sample + Tare Wt, g	67.43	67.93	67.88	67.70	67.38	67.86	67.64	67.62	67.57	68.10		
Tare Wt, g	67.40	67.84	67.79	67.61	67.28	67.79	67.54	67.52	67.48	68.00		
Water Wt, g	37.62	49.1	43.66	42.29	57.5	39.79	49.94	52.62	56.48	53.89		
Dried Sample Wt, g	0.03	0.09	0.09	0.09	0.1	0.07	0.1	0.1	0.09	0.1		
Salt Wt, g	0.020	0.026	0.023	0.023	0.031	0.021	0.027	0.028	0.030	0.029		
Particulates Wt, g	0.010	0.064	0.067	0.067	0.069	0.049	0.073	0.072	0.060	0.071		
Particulates Conc. (g/L)	0.3	1.3	1.5	1.6	1.2	1.2	1.5	1.4	1.1	1.3		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

7 day (168 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	16	104A	17	112	103A	22	201	161	5	103		
Wet Sample + Tare Wt, g	110.28	106.25	105.85	109.11	109.64	121.21	120.55	114.24	123.19	127.54		
Dried Sample + Tare Wt, g	67.39	67.05	66.9	67.78	68.21	66.34	66.71	66.54	67.44	67.68		
Tare Wt, g	67.35	66.97	66.83	67.71	68.14	66.22	66.61	66.45	67.32	67.58		
Water Wt, g	42.89	39.2	38.95	41.33	41.43	54.87	53.84	47.7	55.75	59.86		
Dried Sample Wt, g	0.04	0.08	0.07	0.07	0.07	0.12	0.1	0.09	0.12	0.1		
Salt Wt, g	0.023	0.021	0.021	0.022	0.022	0.029	0.029	0.026	0.030	0.032		
Particulates Wt, g	0.017	0.059	0.049	0.048	0.048	0.091	0.071	0.064	0.090	0.068		
Particulates Conc. (g/L)	0.4	1.5	1.3	1.2	1.2	1.7	1.3	1.4	1.6	1.1		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		197	118	169	2	101	170	77	189	71	175	XX
Wet Sample + Tare Wt, g		111.48	105.56	114.22	110.86	120.85	122.66	120.37	114.53	113.83	117.92	
Dried Sample + Tare Wt, g		67.93	66.07	67.07	67.98	68.18	68.18	67.67	67.28	67.67	67.47	
Tare Wt, g		67.83	65.99	66.84	67.77	68.02	68.06	67.53	67.16	67.58	67.31	
Water Wt, g		43.55	39.49	47.15	42.88	52.67	54.48	52.7	47.25	46.16	50.45	
Dried Sample Wt, g		0.1	0.08	0.23	0.21	0.16	0.12	0.14	0.12	0.09	0.16	
Salt Wt, g		0.023	0.021	0.025	0.023	0.028	0.029	0.028	0.025	0.025	0.027	
Particulates Wt, g		0.077	0.059	0.205	0.187	0.132	0.091	0.112	0.095	0.065	0.133	
Particulates Conc. (g/L)		1.8	1.5	4.3	4.4	2.5	1.7	2.1	2.0	1.4	2.6	

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour No interface visible yet

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Dry Particulates + Filter Paper Wt, g												
Filter Paper Wt, g												
Dry Particulates Wt, g												
Volume (mL)												
Particulates TSS Conc. (mg/L)												
Turbidity (NTU)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	82											
Dry Particulates + Filter Paper Wt, g	0.2563											
Filter Paper Wt, g	0.2482											
Dry Particulates Wt, g	0.0081											
Volume (mL)	75											
Particulates TSS Conc. (mg/L)	108.000											
Turbidity (NTU)	80											

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	99	193										
Dry Particulates + Filter Paper Wt, g	0.2691	0.2538										
Filter Paper Wt, g	0.2632	0.2495										
Dry Particulates Wt, g	0.0059	0.0043										
Volume (mL)	90	90										
Particulates TSS Conc. (mg/L)	65.556	47.778										
Turbidity (NTU)	60	70										

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	16	206	22	28								
Dry Particulates + Filter Paper Wt, g	0.1700	0.2623	0.2638	0.2671								
Filter Paper Wt, g	0.1644	0.2542	0.2556	0.2608								
Dry Particulates Wt, g	0.0056	0.0081	0.0082	0.0063								
Volume (mL)	60	75	75	75								
Particulates TSS Conc. (mg/L)	93.333	108.000	109.333	84.000								
Turbidity (NTU)	65	80	80	85								

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	109	111	112	114	115	116	117	118				
Dry Particulates + Filter Paper Wt, g	0.1635	0.2504	0.2549	0.2607	0.2627	0.2612	0.2560	0.2643				
Filter Paper Wt, g	0.1586	0.2434	0.2477	0.2543	0.2541	0.2512	0.2473	0.2551				
Dry Particulates Wt, g	0.0049	0.0070	0.0072	0.0064	0.0086	0.0100	0.0087	0.0092				
Volume (mL)	80	90	80	75	75	75	75	85				
Particulates TSS Conc. (mg/L)	61.250	77.778	90.000	85.333	114.667	133.333	116.000	108.235				
Turbidity (NTU)	55.0	50	55	60	75	80	75	70				

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	207	208	209	210	177	192	26	178	179			
Dry Particulates + Filter Paper Wt, g	0.3305	0.3394	0.3575	0.3327	0.3535	0.3377	0.3508	0.3372	0.3644			
Filter Paper Wt, g	0.3256	0.3326	0.3483	0.3254	0.3441	0.3292	0.3439	0.3300	0.3370			
Dry Particulates Wt, g	0.0049	0.0068	0.0092	0.0073	0.0094	0.0085	0.0069	0.0072	0.0274			
Volume (mL)	99	100	100	100	100	100	100	100	100			
Particulates TSS Conc. (mg/L)	49.495	68.000	92.000	73.000	94.000	85.000	69.000	72.000	274.000			
Turbidity (NTU)	40	55.0	70.0	60.0	75.0	70.0	65.0	60.0	65			

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	192	26	152	179	153	154	56	177	155	208		
Dry Particulates + Filter Paper Wt, g	0.259	0.2481	0.2649	0.2581	0.2594	0.2582	0.2571	0.2552	0.2576	0.2659		
Filter Paper Wt, g	0.254	0.2418	0.2578	0.2519	0.2516	0.2518	0.2501	0.2504	0.2520	0.2598		
Dry Particulates Wt, g	0.005	0.0063	0.0071	0.0062	0.0078	0.0064	0.007	0.0048	0.0056	0.0061		
Volume (mL)	95	95	91	93	93	91	92	95	90	96		
Particulates TSS Conc. (mg/L)	52.632	66.316	78.022	66.667	83.871	70.330	76.087	50.526	62.222	63.542		
Turbidity (NTU)	39	40.0	45.0	50.0	45.0	45.0	45.0	45.0	45.0	40		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	177	180	99A	115	153	29	154	152	182	207		
Dry Particulates + Filter Paper Wt, g	0.2507	0.2576	0.2542	0.0869	0.1728	0.1708	0.2657	0.2474	0.2613	0.1651		
Filter Paper Wt, g	0.2462	0.2532	0.2486	0.0837	0.1675	0.1650	0.2535	0.2414	0.2560	0.1618		
Dry Particulates Wt, g	0.0045	0.0044	0.0056	0.0032	0.0053	0.0058	0.0122	0.006	0.0053	0.0033		
Volume (mL)	100	104	103	50	102	100	102	101	99	102		
Particulates TSS Conc. (mg/L)	45.000	42.308	54.369	64.000	51.961	58.000	119.608	59.406	53.535	32.353		
Turbidity (NTU)	40.0	40.0	40.0	45.0	45.0	50.0	50.0	45.0	45.0	45.0		

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70049	CST Test #:	12
Test Start Date:	3/23/2007	Tested By:	md
Test Start Time:		Checked By:	jdt

US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.		177	54	51	61	153	79	195	15	8	63	XX
Dry Particulates + Filter Paper Wt, g		0.2523	0.413	0.3359	0.3285	0.1733	0.2565	0.2574	0.257	0.2501	0.2569	
Filter Paper Wt, g		0.2491	0.4082	0.3314	0.3234	0.1692	0.2521	0.2519	0.2514	0.2427	0.2461	
Dry Particulates Wt, g		0.0032	0.0048	0.0045	0.0051	0.0041	0.0044	0.0055	0.0056	0.0074	0.0108	
Volume (mL)		71	89	82	80	81	89	98	93	102	96	
Particulates TSS Conc. (mg/L)		45.070	53.933	54.878	63.750	50.617	49.438	56.122	60.215	72.549	112.500	
Turbidity (NTU)		45	45	45	45	45	45	45	45	45	60	

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Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-70049	Test Date: 05/23/07	Checked By:	n/a
Depth : ---	Sample Id: 50277		
Test Comment: ---			
Sample Description: Moist, very dark gray silt			
Sample Comment: ---			

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-70049	---	Moist, very dark gray silt	52.1

Notes: Temperature of Drying : 110° Celsius

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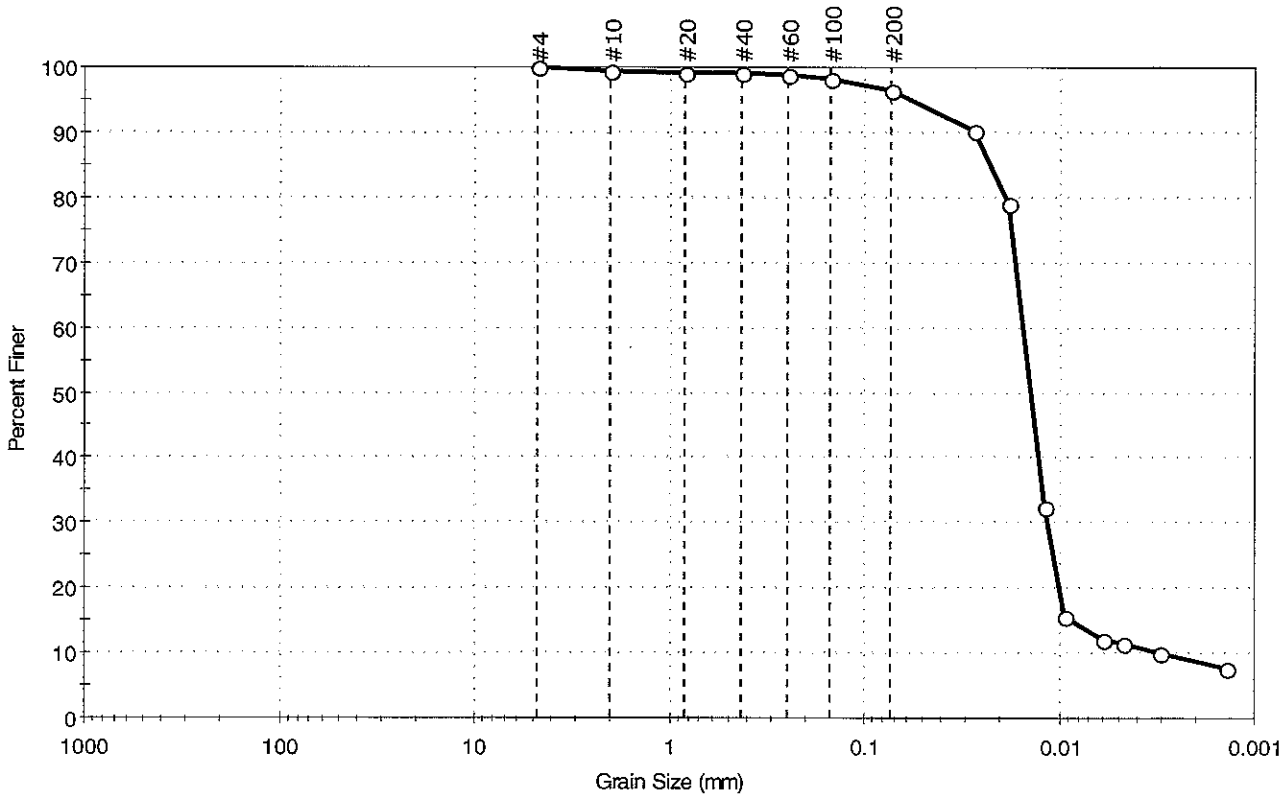
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-70049	Test Date: 05/15/07	Checked By:	jdt
Depth : ---	Test Id: 109701		
Test Comment: ---			
Sample Description:	Moist, very dark gray silt		
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	3.6	96.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.84	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	98		
#200	0.074	96		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0274	90		
---	0.0182	79		
---	0.0120	32		
---	0.0093	16		
---	0.0060	12		
---	0.0047	12		
---	0.0031	10		
---	0.0014	8		

Coefficients

D_{85} = 0.0226 mm D_{30} = 0.0116 mm
D_{60} = 0.0154 mm D_{15} = 0.0085 mm
D_{50} = 0.0141 mm D_{10} = 0.0031 mm
C_u = N/A C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (42))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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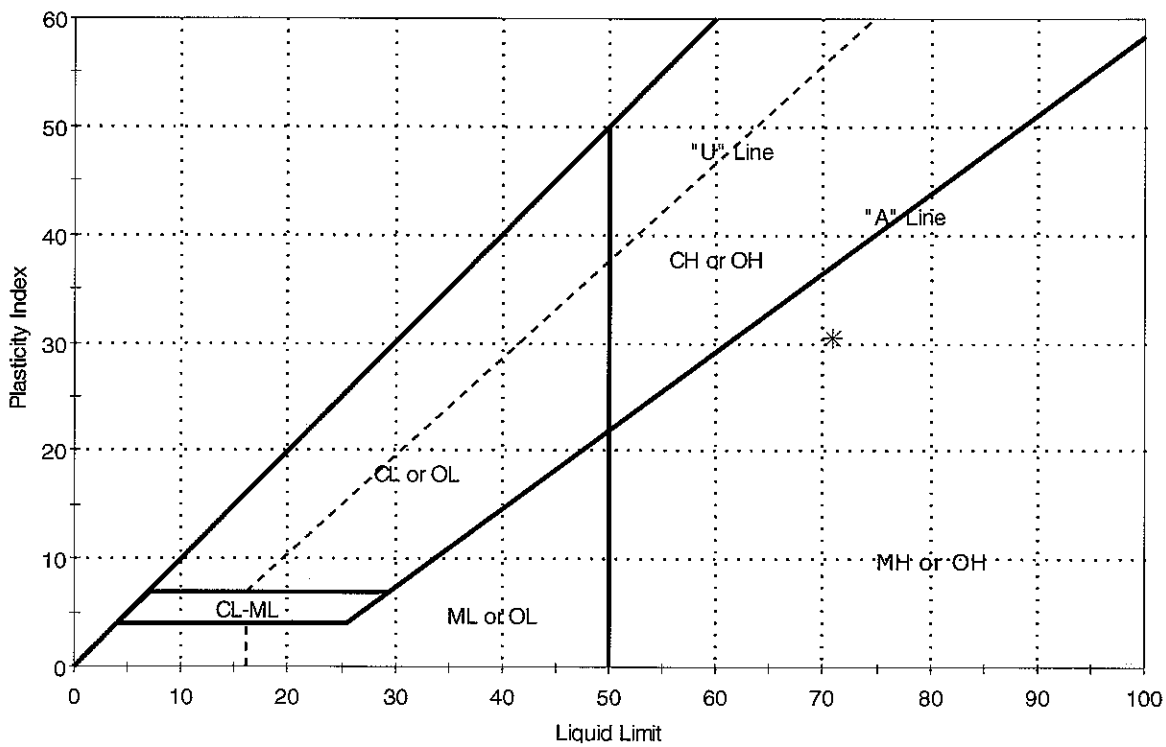
Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:	OL-STA-70049	Test Date:	05/07/07	Checked By:	jdt
Depth :	---	Test Id:	109718		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	OL-STA-70049	---	---	52	71	40	31	0	elastic silt (MH)

Sample Prepared using the WET method
1% Retained on #40 Sieve
Dry Strength: VERY HIGH
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	ap
Sample ID:OL-STA-70049		Test Date:	05/17/07	Checked By:	jdt
Depth : ---		Test Id:	109752		
Test Comment:	---				
Sample Description:	Moist, very dark gray silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-70049	---	Moist, very dark gray silt	2.4

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	05/14/07
Tested by:	md
Checked by:	jdt

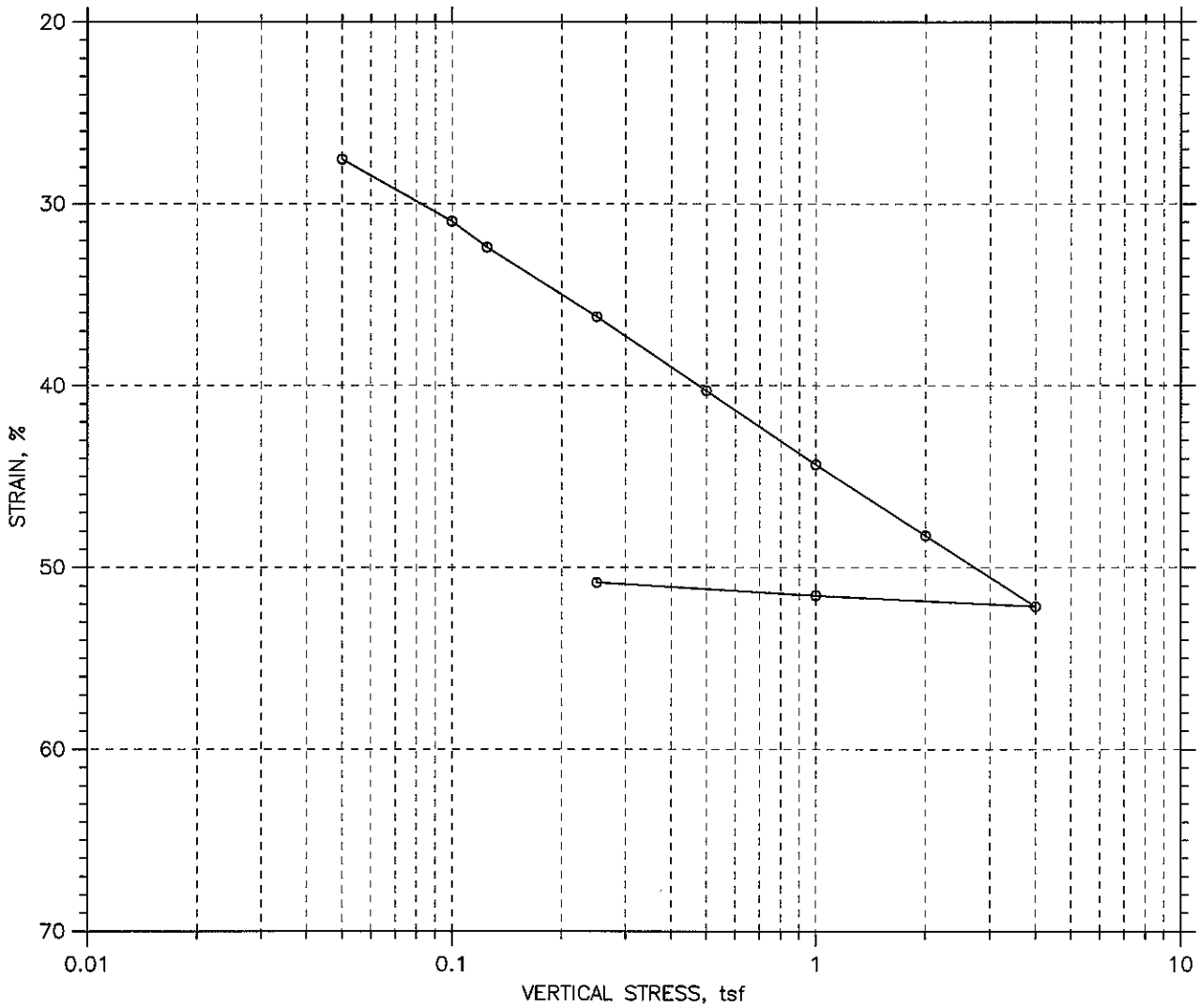
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-70049	Moist, very dark gray silt	0.36	0.39	0.41	0.40	0.39

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	150.20	47.83
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	32.54	66.17
Compression Index: ---				Saturation, %	100.00	90.78
Diameter: 7.65 in		Height: 3.71 in		Void Ratio	3.60	1.26
LL: 71	PL: 40	PI: 31	GS: 2.40			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

Thu, 17-MAY-2007 13:48:43

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 70049
Test No.: CST12(LC16)

Location: Syracuse, NY
Tested By: md
Test Date: 05/08/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, very dark gray silt
Remarks: System D

Measured Specific Gravity: 2.40
Initial Void Ratio: 3.60
Final Void Ratio: 1.26

Liquid Limit: 71
Plastic Limit: 40
Plasticity Index: 31

Initial Height: 3.71 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	2511	RING		Frown
Wt. Container + Wet Soil, gm	152.71	3644	2153	226.9
Wt. Container + Dry Soil, gm	63.21	1456.4	1456.4	156.09
Wt. Container, gm	8.19	0	0	8.03
Wt. Dry Soil, gm	55.02	1456.4	1456.4	148.06
Water Content, %	162.67	150.20	47.83	47.83
Void Ratio	---	3.60	1.26	---
Degree of Saturation, %	---	100.00	90.78	---
Dry Unit Weight, pcf	---	32.538	66.168	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ----
Sample No.: 70049
Test No.: CST12(LC16)

Location: Syracuse, NY
Tested By: md
Test Date: 05/08/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Moist, very dark gray silt
Remarks: System D

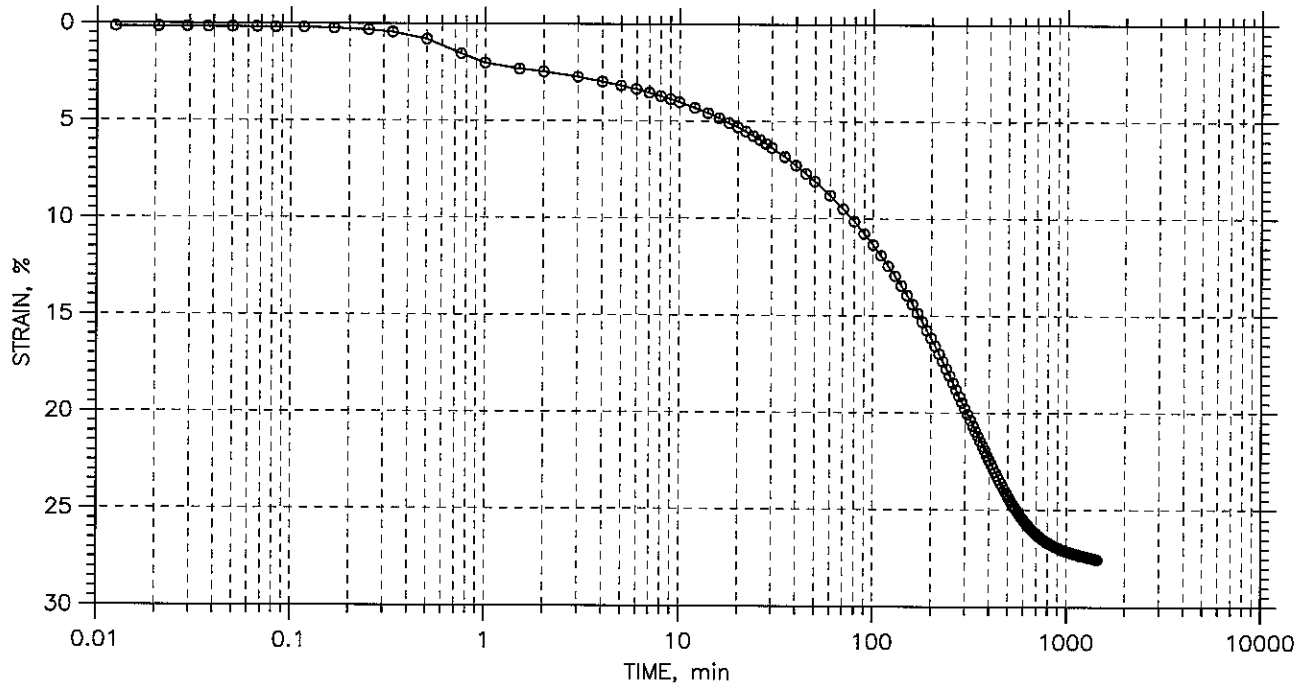
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. in^2/sec	Coefficient of Consolidation Log in^2/sec	Coefficient of Consolidation Ave. in^2/sec
1	0.05	1.022	2.336	27.55	165.8	0.0	5.07e-005	0.00e+000	5.07e-005
2	0.1	1.149	2.179	30.96	75.5	78.7	7.50e-005	7.19e-005	7.35e-005
3	0.125	1.202	2.113	32.40	137.3	0.0	3.85e-005	0.00e+000	3.85e-005
4	0.25	1.343	1.938	36.21	34.8	0.0	1.40e-004	0.00e+000	1.40e-004
5	0.5	1.494	1.750	40.27	21.0	19.8	2.05e-004	2.18e-004	2.12e-004
6	1	1.645	1.563	44.34	10.4	13.3	3.62e-004	2.82e-004	3.17e-004
7	2	1.79	1.383	48.24	8.4	10.5	3.89e-004	3.11e-004	3.46e-004
8	4	1.934	1.204	52.14	5.6	7.6	5.00e-004	3.68e-004	4.24e-004
9	1	1.912	1.232	51.54	0.0	0.1	5.35e-002	5.17e-002	5.26e-002
10	0.25	1.886	1.264	50.83	4.8	4.8	5.56e-004	5.61e-004	5.59e-004

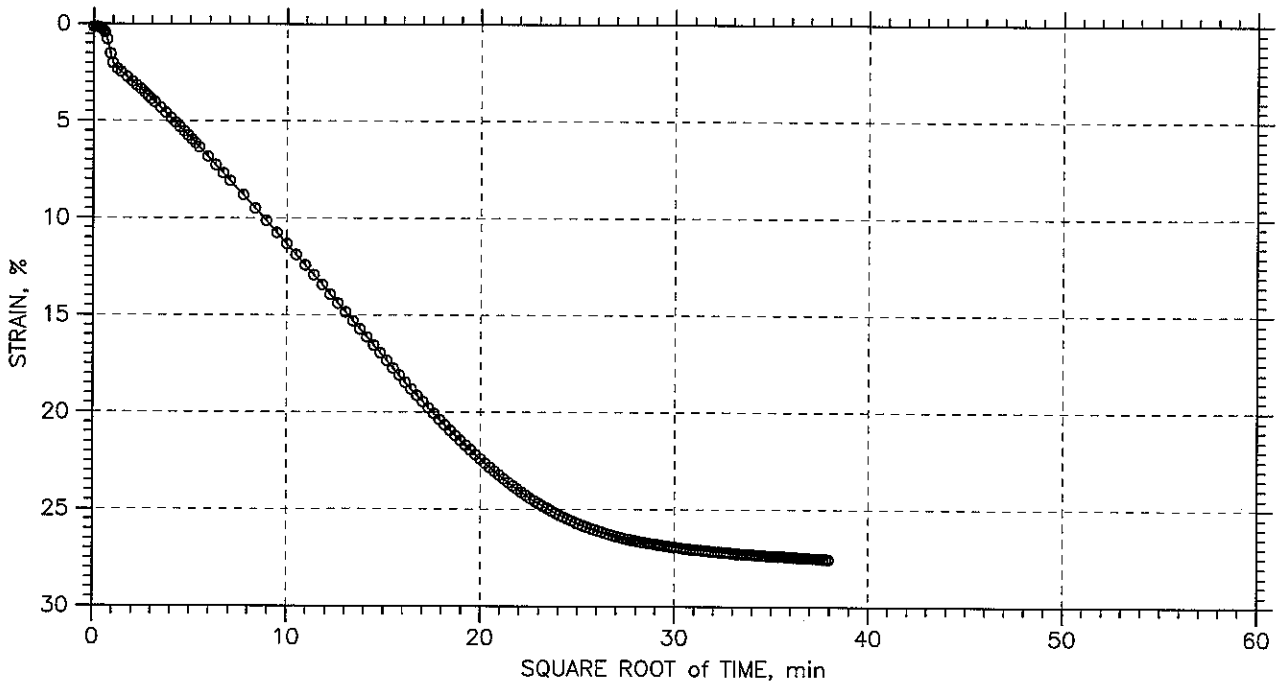
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

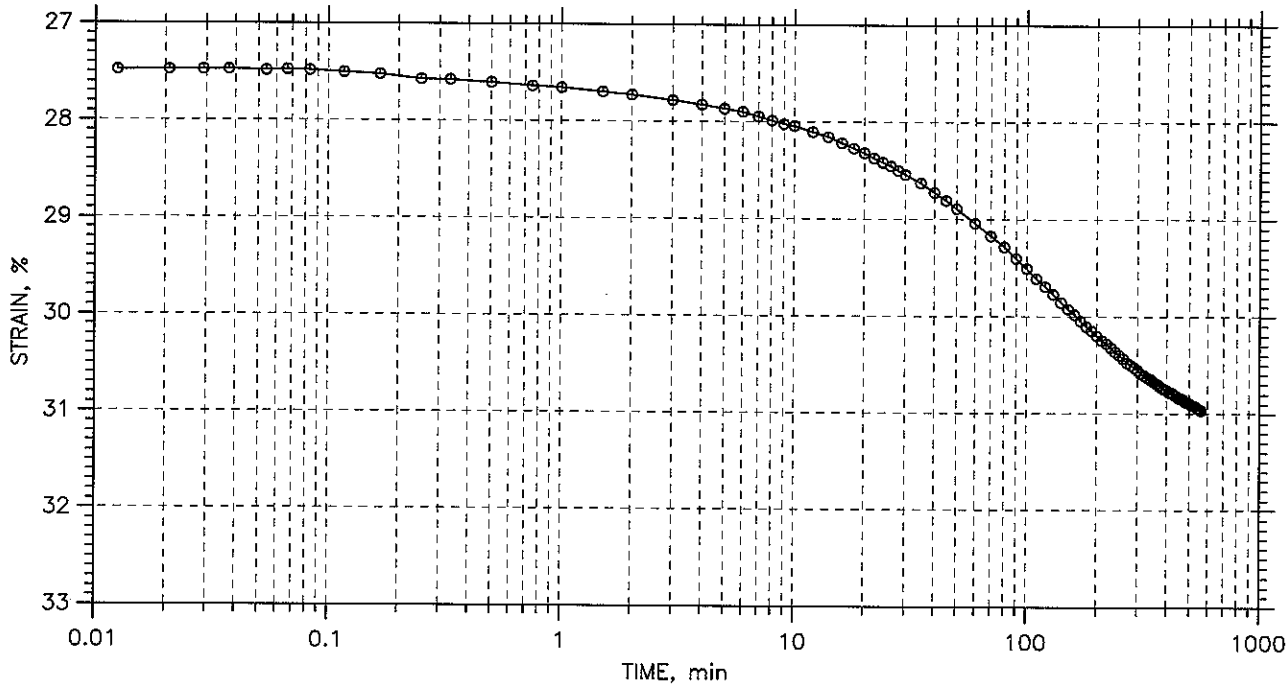
Thu, 17-MAY-2007 13:48:45

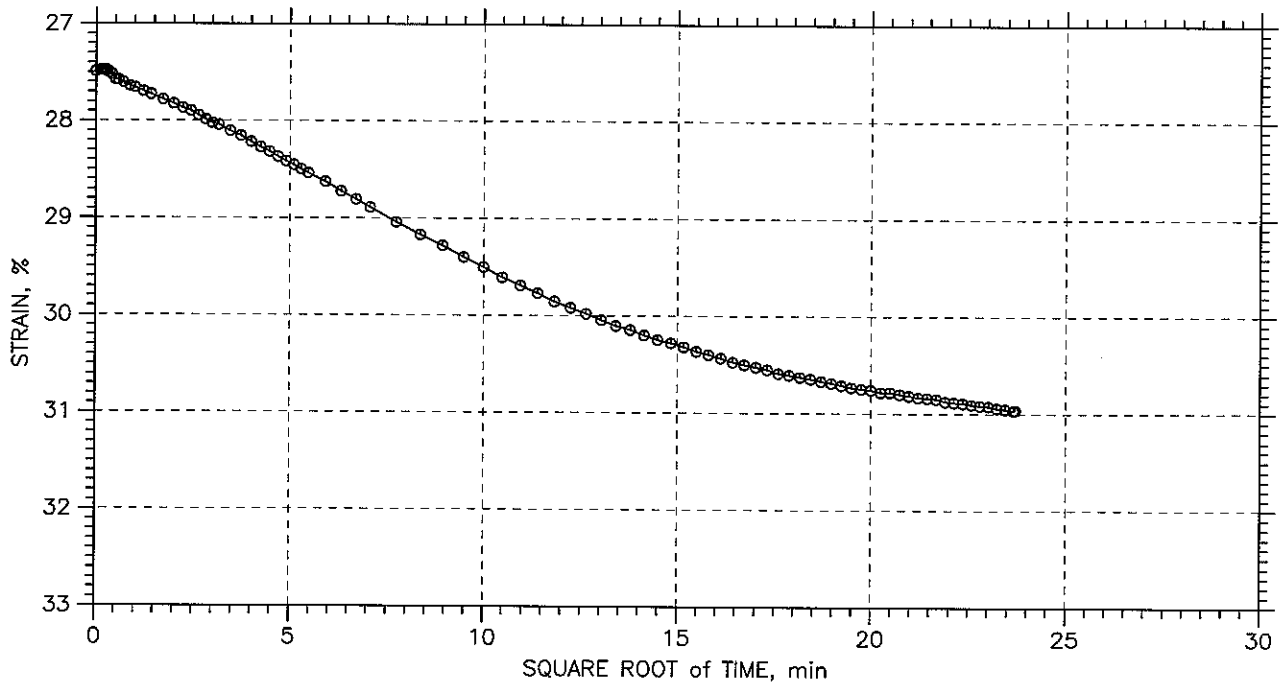
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

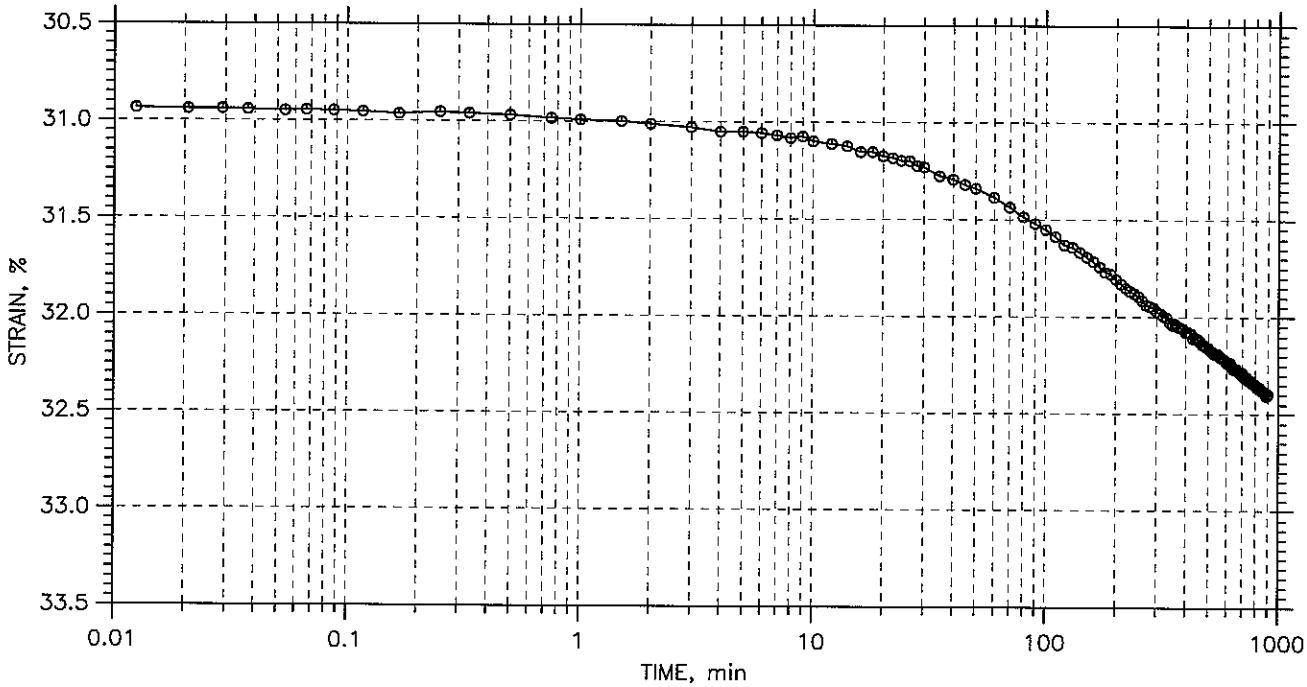
Thu, 17-MAY-2007 13:48:49

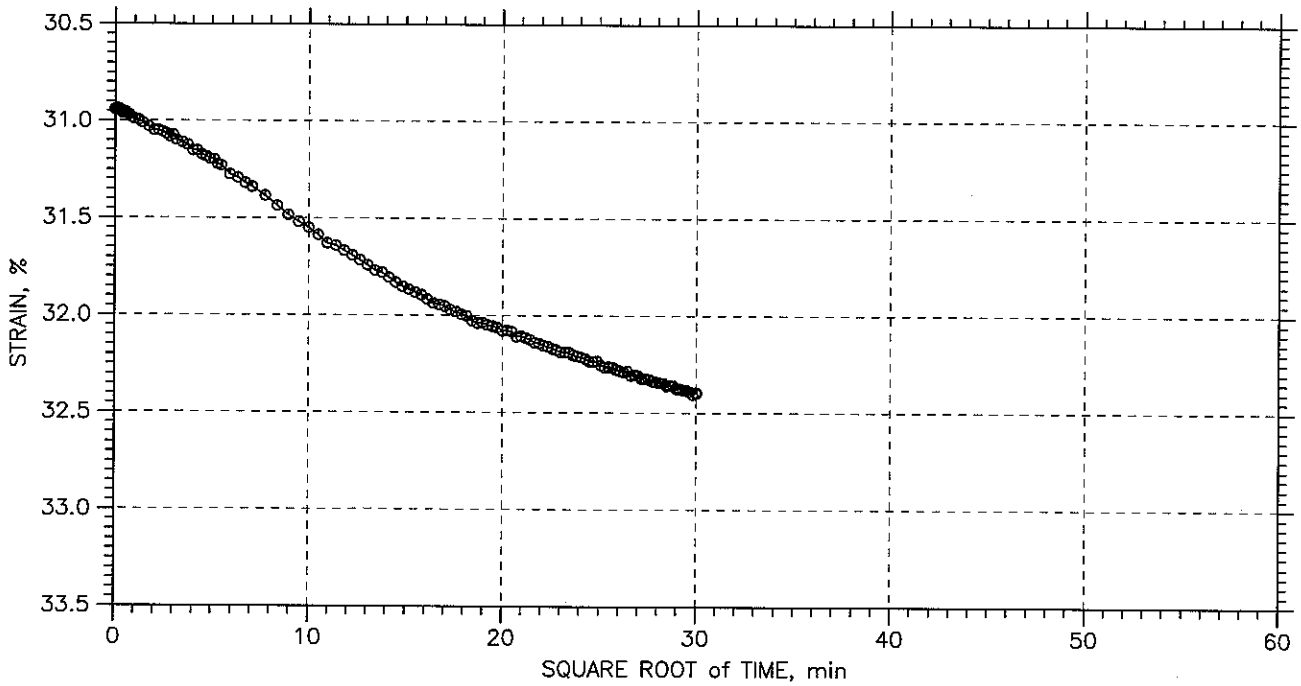
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

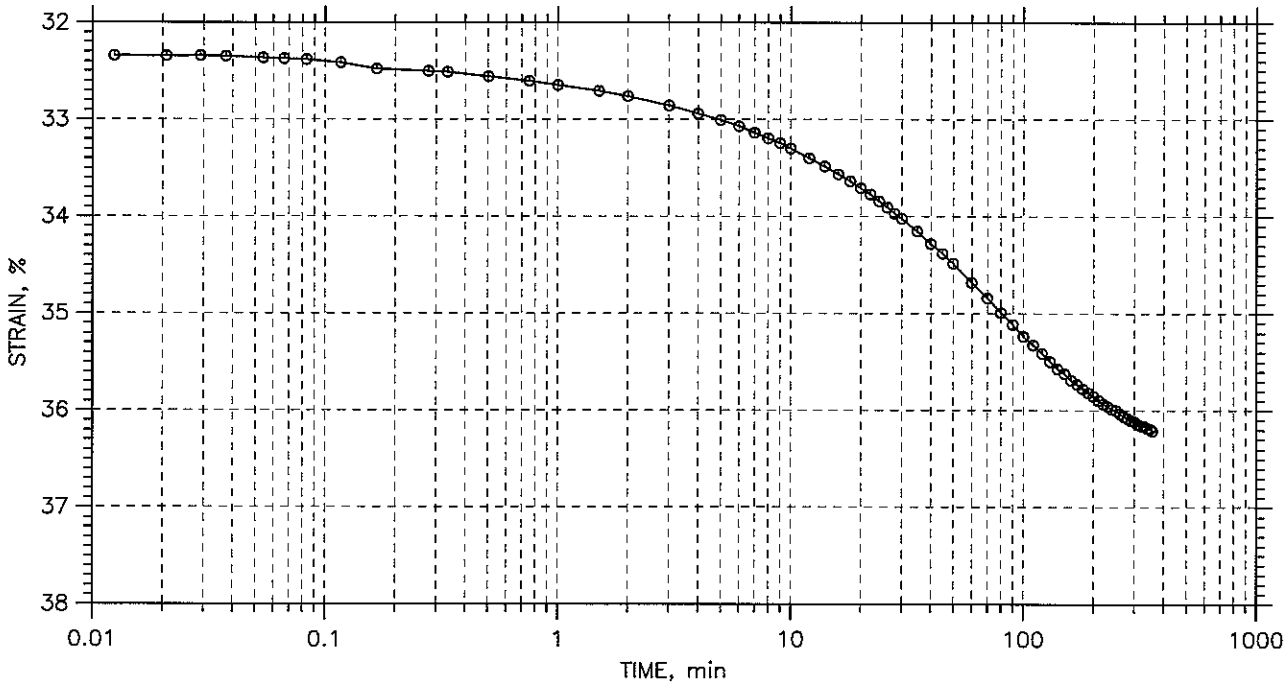
Thu, 17-MAY-2007 13:48:53

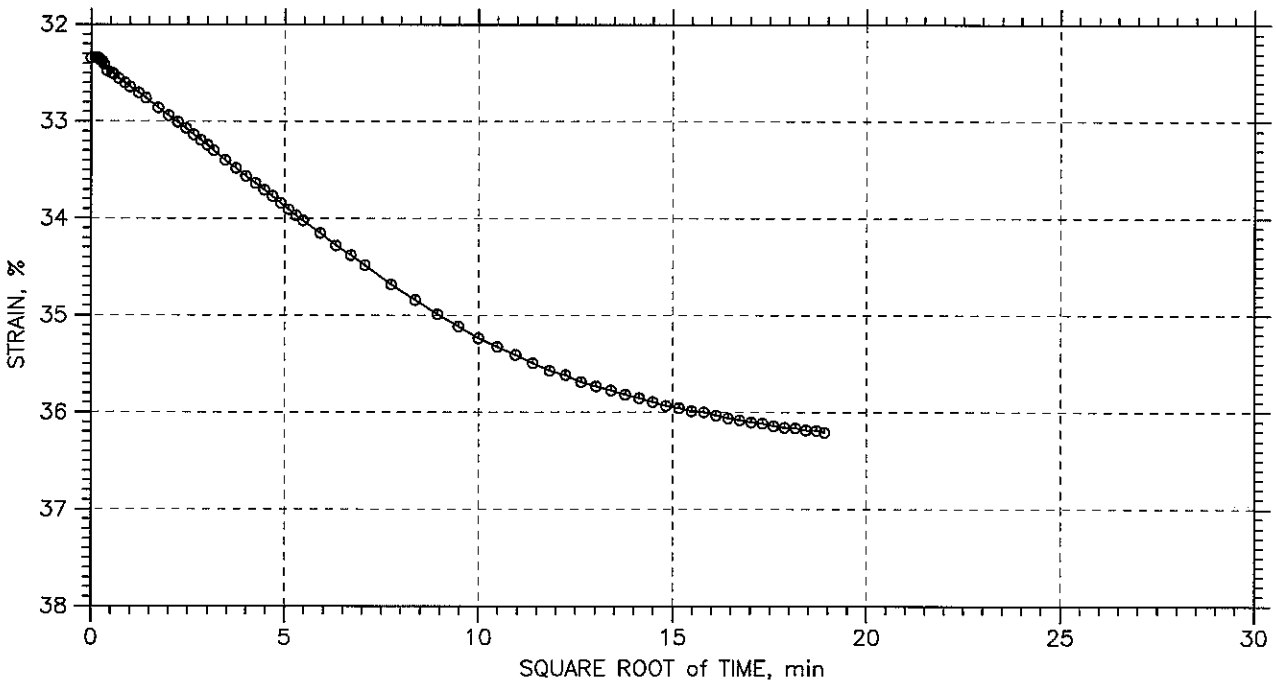
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

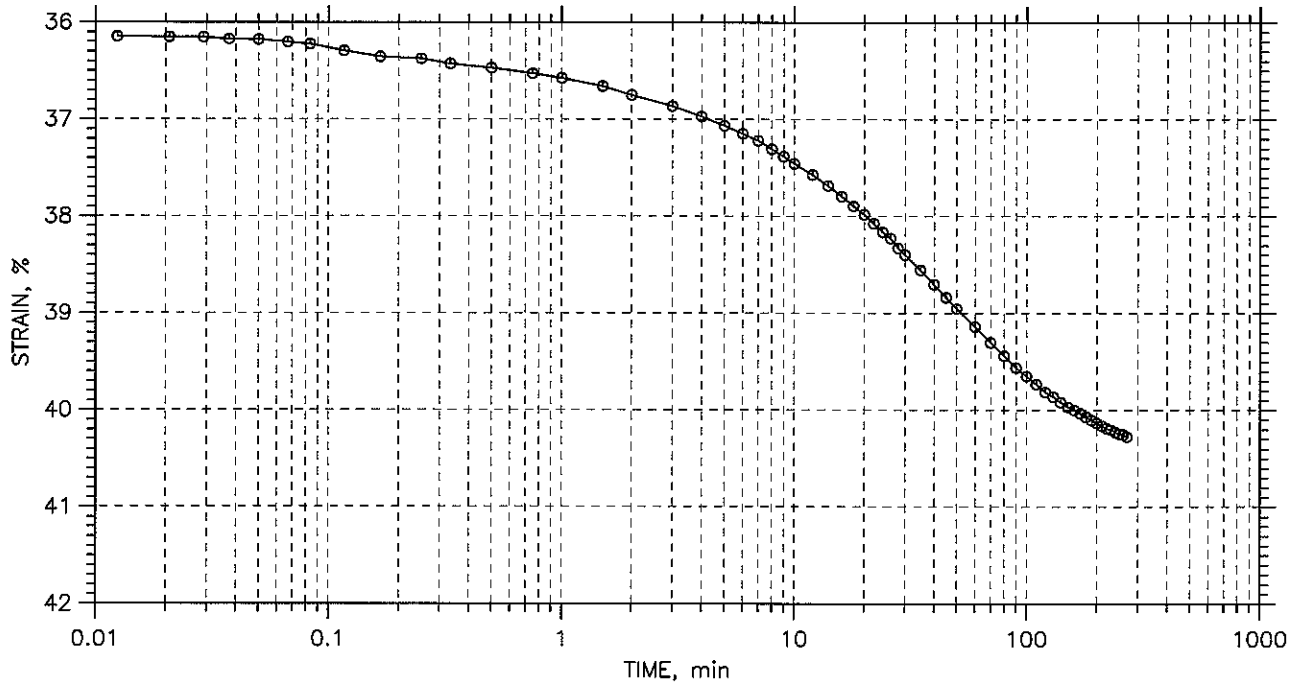
Thu, 17-MAY-2007 13:48:56

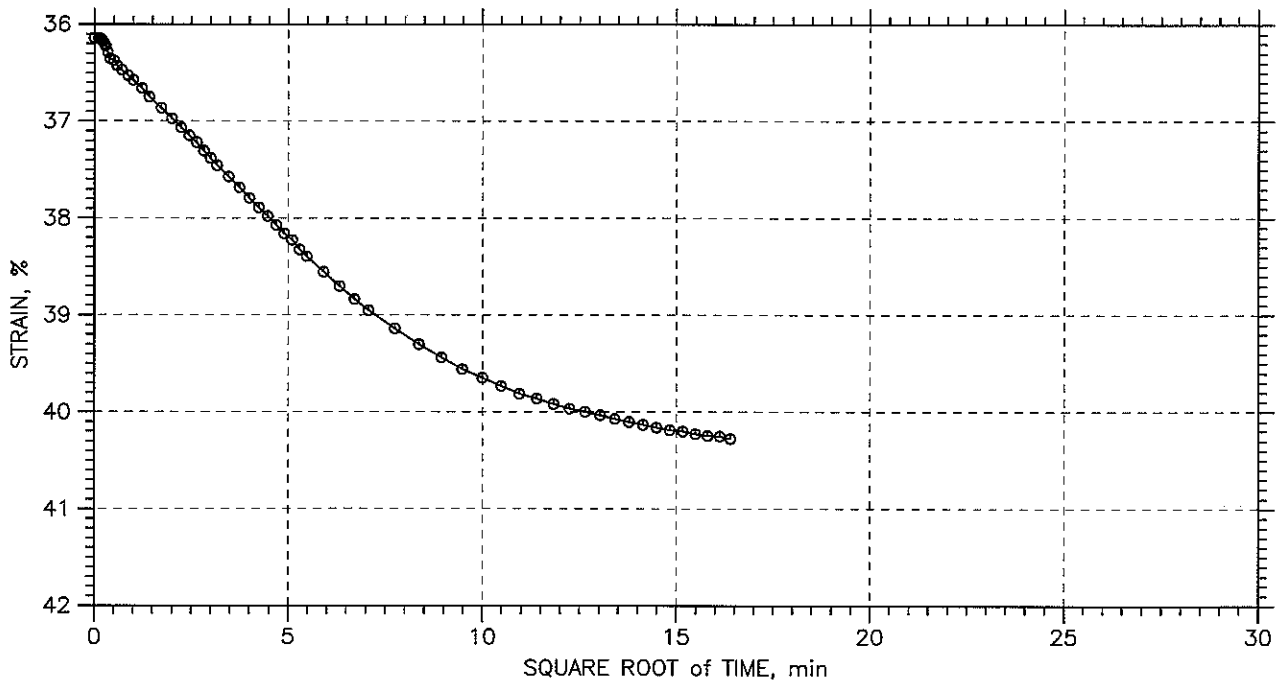
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

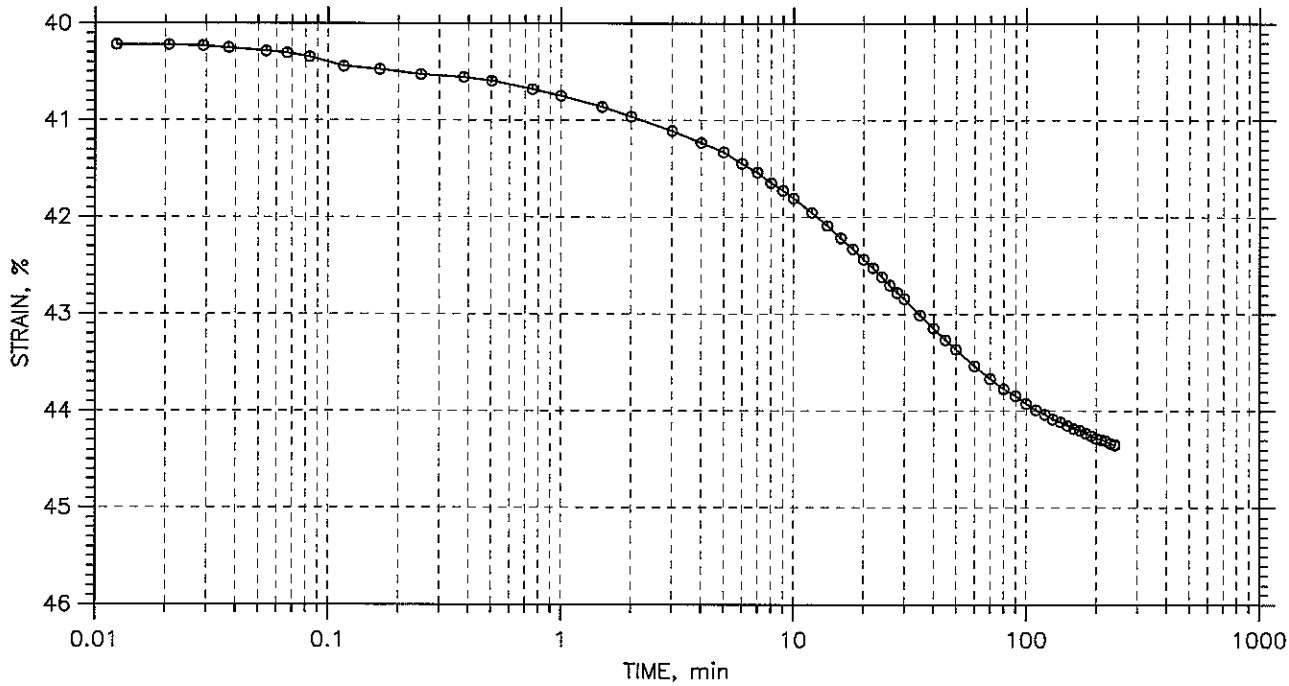
Thu, 17-MAY-2007 13:48:59

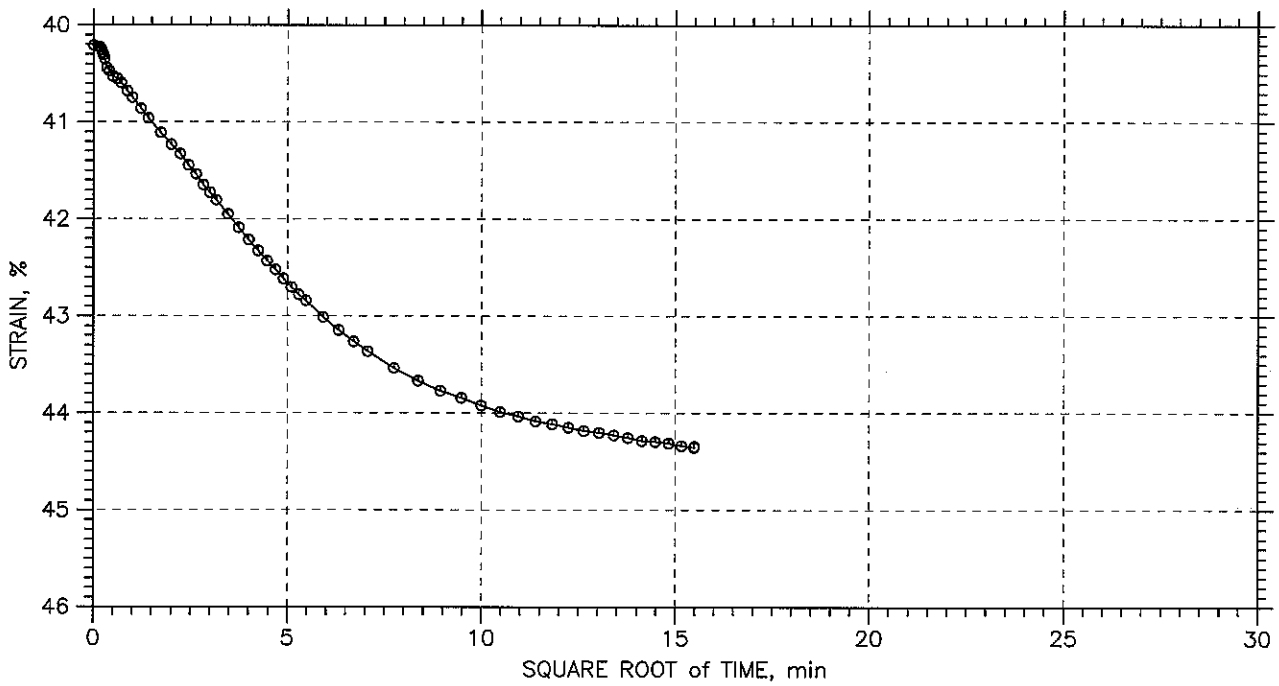
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

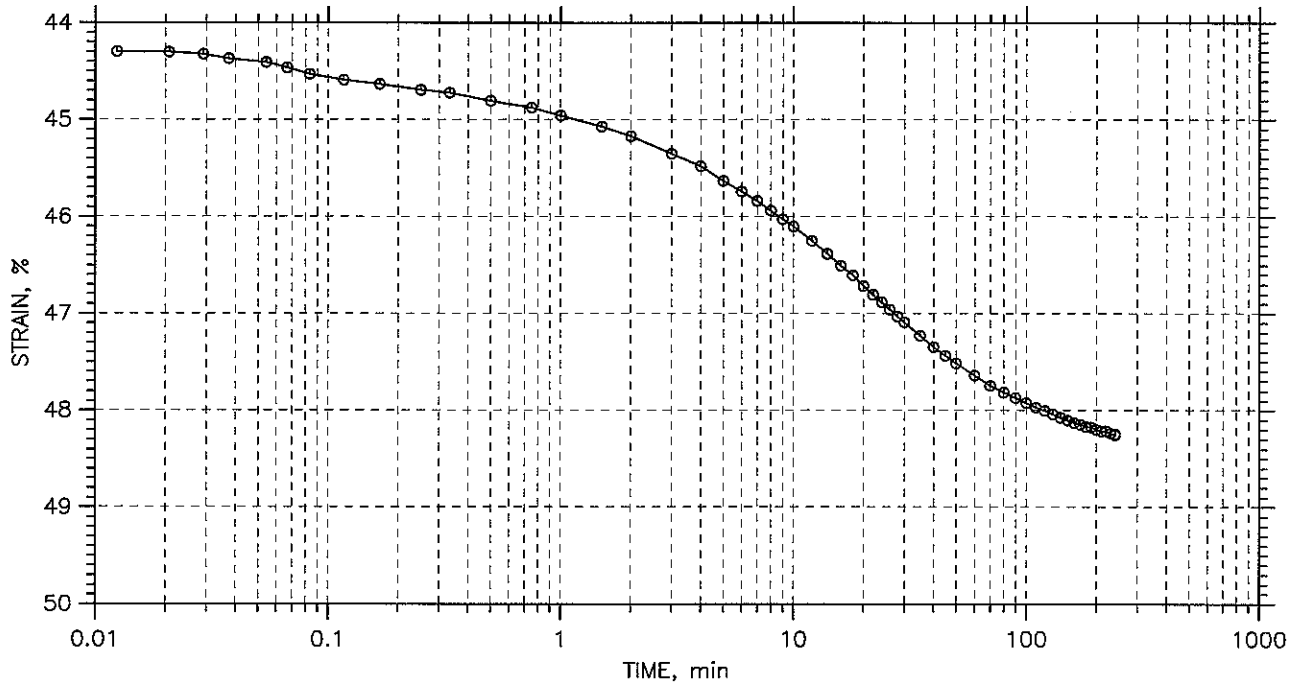
Thu, 17-MAY-2007 13:49:02

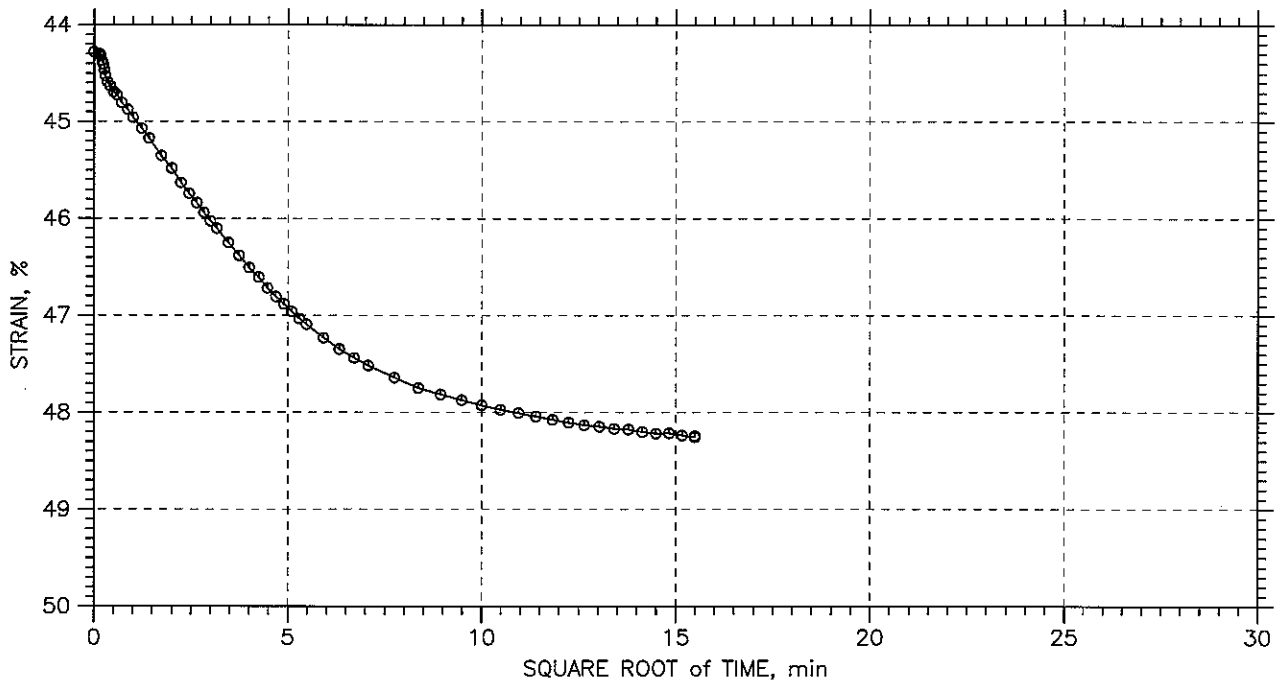
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

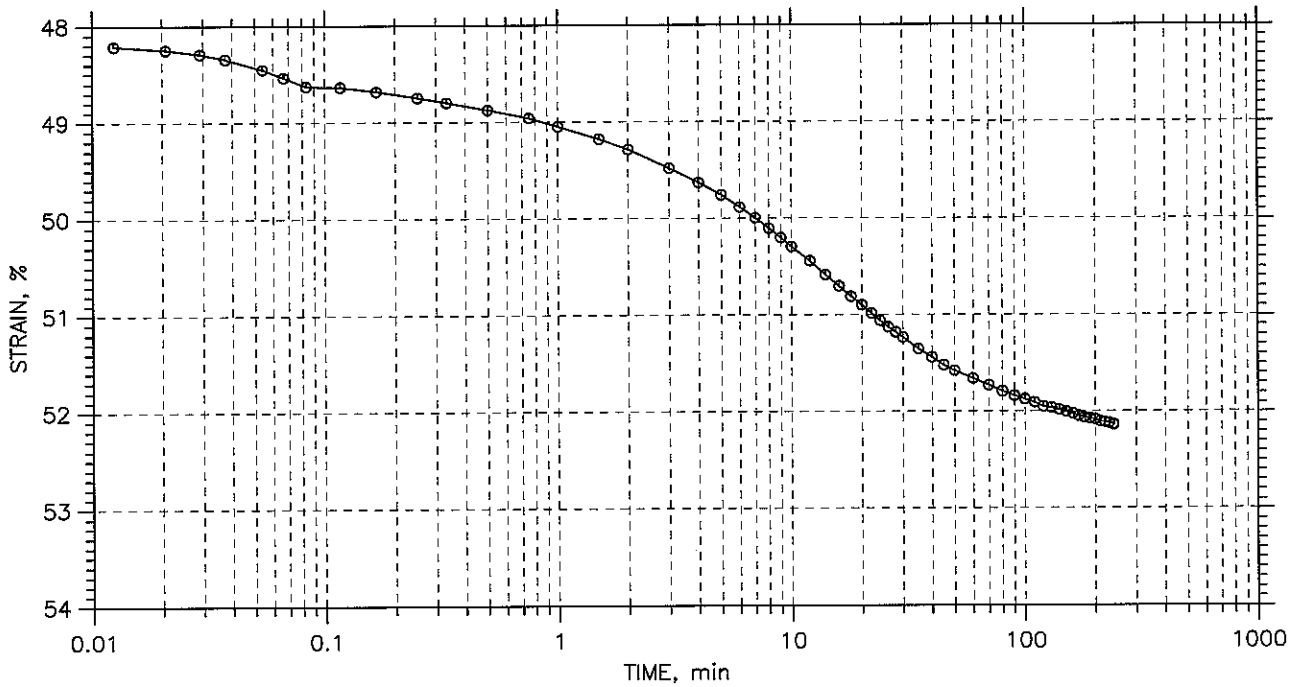
Thu, 17-MAY-2007 13:49:06

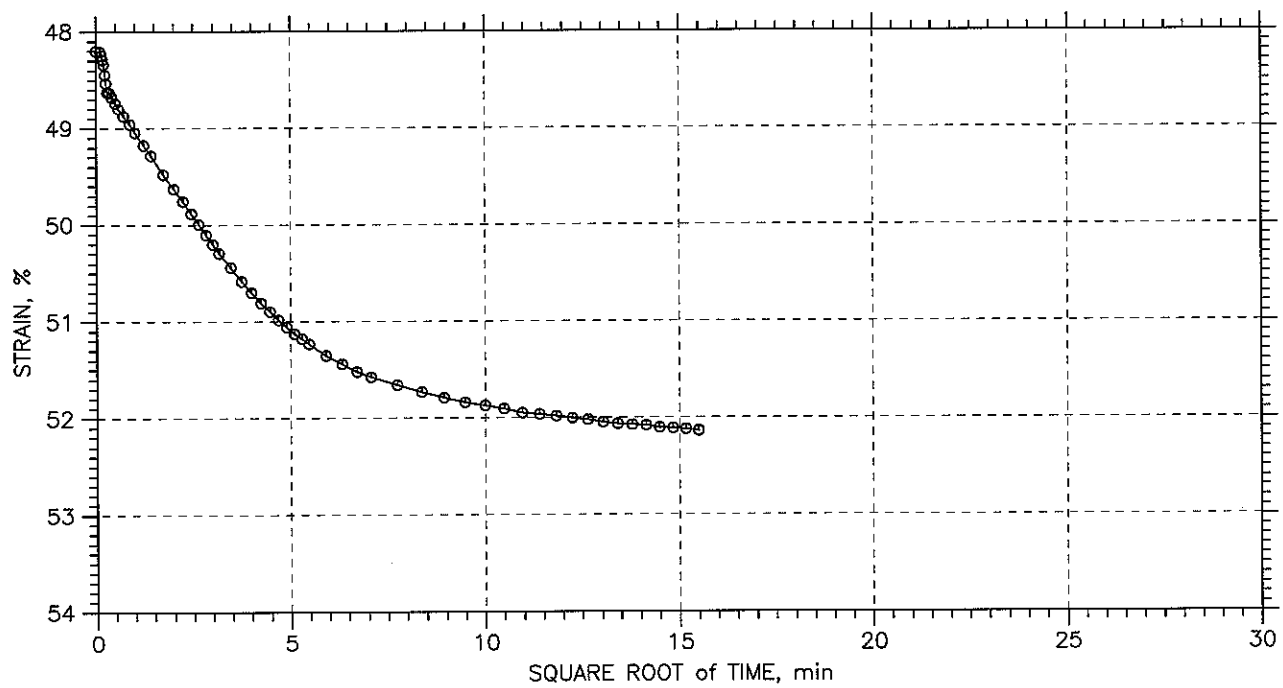
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

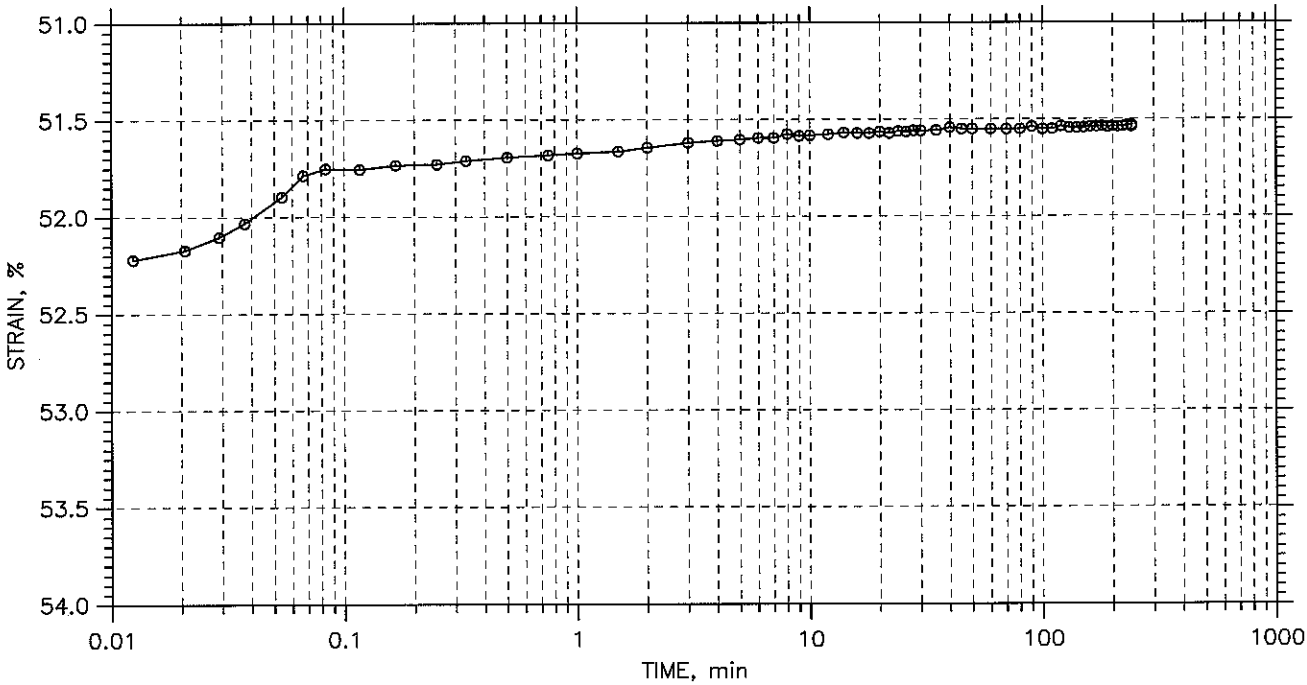
Thu, 17-MAY-2007 13:49:09

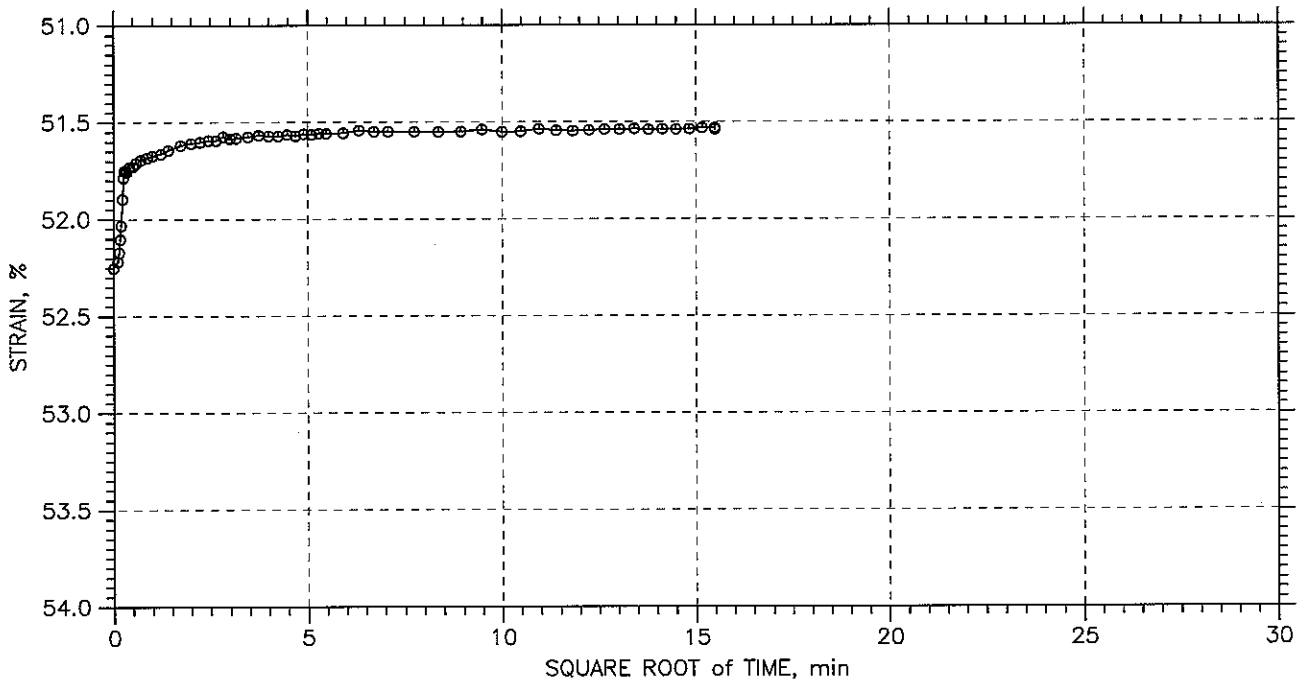
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

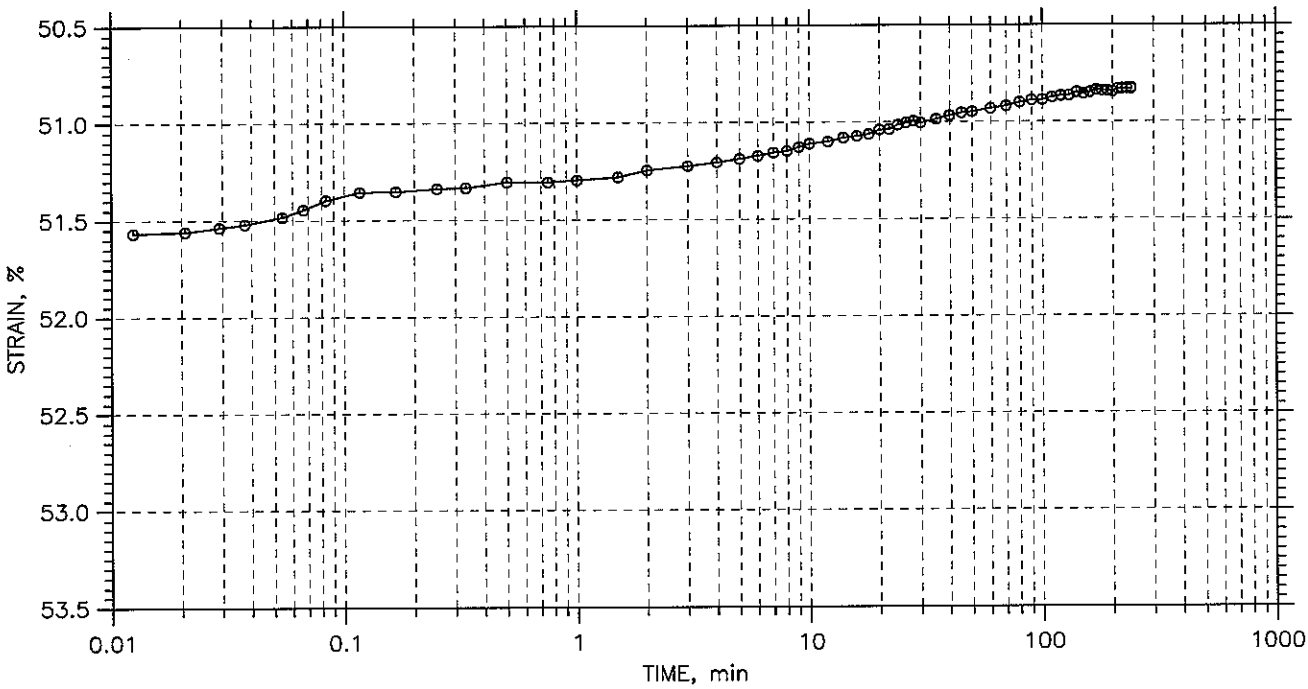
Thu, 17-MAY-2007 13:51:24

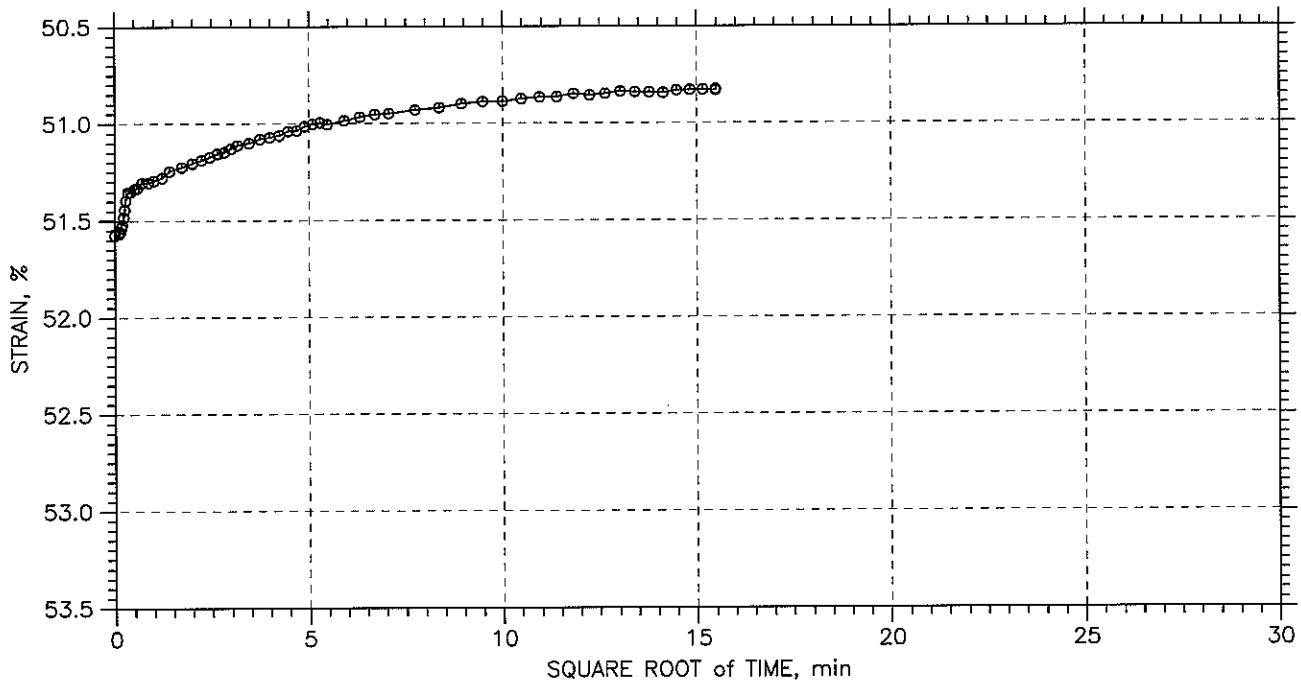
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse, NY	Project No.: GTX-7143
	Boring No.: ----	Tested By: md	Checked By: jdt
	Sample No.: 70049	Test Date: 05/08/07	Depth: ---
	Test No.: CST12(LC16)	Sample Type: Column	Elevation: ---
	Description: Moist, very dark gray silt		
	Remarks: System D		

Thu, 17-MAY-2007 13:51:48

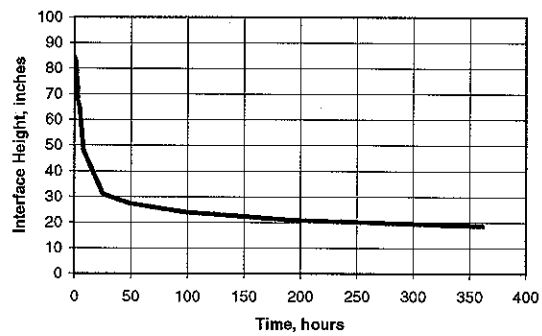
GeoTesting express
a subsidiary of Geocomp Corporation

Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

SETTLING COLUMN DATA SHEET

Date	Time	Elapsed Time, min	Elapsed Time, hrs	Surface Water Height, in	Solids Interface Height, in	Coarse Material Height, in	Ports Sampled/ Type of Analysis
03/21/07	8:43 AM	0	0.00	84.5	84.5		
	9:52 AM	69	1.15	84.5	83.6		
	10:02 AM	79	1.32	84.5	82.2		
	10:12 AM	89	1.48	84.5	81.6		
	10:20 AM	97	1.62	84.5	80.7		
	10:40 AM	117	1.95	84.5	78.8		
	10:43 AM	120	2.00	84.5	78.4		
	10:45 AM	122	2.03	84.3	78.25		
	11:00 AM	137	2.28	84.3	76.7		
	11:17 AM	154	2.57	84.3	75.1		
	11:30 AM	167	2.78	84.3	73.9		
	11:43 AM	180	3.00	84.3	67.7		
	1:15 PM	282	4.70	84.3	64.6		
	1:50 PM	327	5.45	83.75	61.6		
	3:55 PM	452	7.53	83.25	51.1		
	4:35 PM	492	8.20	83.25	48.1		
03/22/07	10:00 AM	1517	25.28	82.1	31.0		
03/23/07	10:00 AM	2957	49.28	81.1	27.3		
03/25/07	9:00 AM	5854	97.57	80.6	24.0		
03/29/07	10:00 AM	11615	193.58	78.9	20.8		
04/05/07	10:15 AM	21710	361.83	77.5	18.6		



GeoTesting express
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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial slurry before pouring into column

SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	438	1930	1691									
Wet Sample + Tare Wt, g	183.25	181.20	192.92									
Dried Sample + Tare Wt, g	124.73	118.79	121.62									
Tare Wt, g	116.79	110.21	112.16									
Water Wt, g	58.52	62.41	71.3									
Dried Sample Wt, g	7.94	8.58	9.46									
Salt Wt, g	0.033	0.036	0.041									
Particulates Wt, g	7.907	8.544	9.419									
Particulates Conc. (g/L)	128.2	129.8	125.5									

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

Initial samples immediately after pouring slurry into column

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.												
Wet Sample + Tare Wt, g												
Dried Sample + Tare Wt, g												
Tare Wt, g												
Water Wt, g												
Dried Sample Wt, g												
Salt Wt, g												
Particulates Wt, g												
Particulates Conc. (g/L)												

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Client Name:	Parsons		
Project Name:	Onondaga Lake		
Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	113											
Wet Sample + Tare Wt, g	108.80											
Dried Sample + Tare Wt, g	65.46											
Tare Wt, g	65.38											
Water Wt, g	43.34											
Dried Sample Wt, g	0.08											
Salt Wt, g	0.025											
Particulates Wt, g	0.055											
Particulates Conc. (g/L)	1.3											

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	36	85										
Wet Sample + Tare Wt, g	116.43	115.69										
Dried Sample + Tare Wt, g	66.05	67.74										
Tare Wt, g	65.95	67.63										
Water Wt, g	50.38	47.95										
Dried Sample Wt, g	0.10	0.11										
Salt Wt, g	0.029	0.027										
Particulates Wt, g	0.071	0.083										
Particulates Conc. (g/L)	1.4	1.7										

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Client Name:	Parsons		
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Project Location:	Syracuse, NY		
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Sample ID:	OL-STA-70050	CST Test #:	11
Test Start Date:	3/21/2007	Tested By:	md
Test Start Time:	8:43	Checked By:	jdt

US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	1	2	3									
Wet Sample + Tare Wt, g	120.68	107.06	113.14									
Dried Sample + Tare Wt, g	68.06	67.98	66.42									
Tare Wt, g	67.96	67.89	66.33									
Water Wt, g	52.62	39.08	46.72									
Dried Sample Wt, g	0.10	0.09	0.09									
Salt Wt, g	0.030	0.022	0.027									
Particulates Wt, g	0.070	0.068	0.063									
Particulates Conc. (g/L)	1.3	1.7	1.4									

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Test Start Date:	3/21/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	70	71	72	75	77							
Wet Sample + Tare Wt, g	105.88	109.46	109.79	111.38	112.02							
Dried Sample + Tare Wt, g	67.82	67.66	67.63	68.20	67.65							
Tare Wt, g	67.76	67.59	67.57	68.12	67.56							
Water Wt, g	38.06	41.80	42.16	43.18	44.37							
Dried Sample Wt, g	0.06	0.07	0.06	0.08	0.09							
Salt Wt, g	0.022	0.024	0.024	0.025	0.025							
Particulates Wt, g	0.038	0.046	0.036	0.055	0.065							
Particulates Conc. (g/L)	1.0	1.1	0.9	1.3	1.5							

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	180	182	183	184	185	187	188	190	191			
Wet Sample + Tare Wt, g	117.63	109.43	109.38	110.93	105.55	111.76	104.56	111.21	122.42			
Dried Sample + Tare Wt, g	67.98	67.47	67.03	66.60	66.71	67.05	66.85	67.96	66.95			
Tare Wt, g	67.88	67.37	66.93	66.53	66.63	66.95	66.74	67.85	66.82			
Water Wt, g	49.65	41.96	42.35	44.33	38.84	44.71	37.71	43.25	55.47			
Dried Sample Wt, g	0.10	0.10	0.10	0.07	0.08	0.10	0.11	0.11	0.13			
Salt Wt, g	0.028	0.024	0.024	0.025	0.022	0.026	0.022	0.025	0.032			
Particulates Wt, g	0.072	0.076	0.076	0.045	0.058	0.074	0.088	0.085	0.098			
Particulates Conc. (g/L)	1.4	1.8	1.8	1.0	1.5	1.7	2.3	2.0	1.8			

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Test Start Date:	3/21/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	14	86	11	15	13	9	194	84	8			
Wet Sample + Tare Wt, g	107.26	112.74	114.75	110.04	111.16	116.20	120.86	115.92	117.30			
Dried Sample + Tare Wt, g	66.58	67.99	65.89	68.18	65.69	67.69	68.25	67.42	66.75			
Tare Wt, g	66.49	67.90	65.78	68.10	65.59	67.59	68.14	67.30	66.66			
Water Wt, g	40.68	44.75	48.86	41.86	45.47	48.51	52.61	48.50	50.55			
Dried Sample Wt, g	0.09	0.09	0.11	0.08	0.10	0.10	0.11	0.12	0.09			
Salt Wt, g	0.023	0.026	0.028	0.024	0.026	0.028	0.030	0.028	0.029			
Particulates Wt, g	0.067	0.064	0.082	0.056	0.074	0.072	0.080	0.092	0.061			
Particulates Conc. (g/L)	1.6	1.4	1.7	1.3	1.6	1.5	1.5	1.9	1.2			

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Test Start Date:	3/21/2007	Tested By:	md
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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	102A	66	122	101A	120	166	171	83	123	7		
Wet Sample + Tare Wt, g	107.97	116.52	114.01	111.36	120.87	119.35	122.77	119.65	117.72	124.22		
Dried Sample + Tare Wt, g	67.93	67.81	67.38	67.37	66.26	66.74	66.80	67.36	65.73	68.22		
Tare Wt, g	67.85	67.72	67.29	67.29	66.16	66.63	66.70	67.27	65.64	68.12		
Water Wt, g	40.04	48.71	46.63	43.99	54.61	52.61	55.97	52.29	51.99	56.00		
Dried Sample Wt, g	0.08	0.09	0.09	0.08	0.10	0.11	0.10	0.09	0.09	0.10		
Salt Wt, g	0.023	0.028	0.027	0.025	0.031	0.030	0.032	0.030	0.030	0.032		
Particulates Wt, g	0.057	0.062	0.063	0.055	0.069	0.080	0.068	0.060	0.060	0.068		
Particulates Conc. (g/L)	1.4	1.3	1.4	1.2	1.3	1.5	1.2	1.1	1.2	1.2		

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	38	35	184	97	87	192	90	93	95	92		
Wet Sample + Tare Wt, g	105.70	106.94	108.37	117.21	114.52	115.04	116.51	117.70	123.11	119.55		
Dried Sample + Tare Wt, g	66.25	67.38	66.62	67.43	66.56	67.41	68.16	66.48	66.10	67.78		
Tare Wt, g	66.19	67.33	66.55	67.35	66.46	67.33	68.08	66.41	66.00	67.68		
Water Wt, g	39.45	39.56	41.75	49.78	47.96	47.63	48.35	51.22	57.01	51.77		
Dried Sample Wt, g	0.06	0.05	0.07	0.08	0.10	0.08	0.08	0.07	0.10	0.10		
Salt Wt, g	0.023	0.023	0.024	0.028	0.027	0.027	0.028	0.029	0.033	0.030		
Particulates Wt, g	0.037	0.027	0.046	0.052	0.073	0.053	0.052	0.041	0.067	0.070		
Particulates Conc. (g/L)	0.9	0.7	1.1	1.0	1.5	1.1	1.1	0.8	1.2	1.4		

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US COE EM 1110 - Column Settling Test

TOTAL SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	166	25	208	91	26	37	30	56	82	88	
Wet Sample + Tare Wt, g		109.48	110.92	109.18	111.62	117.28	112.65	125.43	123.18	126.69	137.63	
Dried Sample + Tare Wt, g		66.73	67.88	67.14	67.63	67.13	67.67	67.58	67.44	67.48	67.85	
Tare Wt, g		66.64	67.81	67.07	67.56	67.03	67.58	67.46	67.34	67.38	67.74	
Water Wt, g		42.75	43.04	42.04	43.99	50.15	44.98	57.85	55.74	59.21	69.78	
Dried Sample Wt, g		0.09	0.07	0.07	0.07	0.10	0.09	0.12	0.10	0.10	0.11	
Salt Wt, g		0.024	0.025	0.024	0.025	0.029	0.026	0.033	0.032	0.034	0.040	
Particulates Wt, g		0.066	0.045	0.046	0.045	0.071	0.064	0.087	0.068	0.066	0.070	
Particulates Conc. (g/L)		1.5	1.1	1.1	1.0	1.4	1.4	1.5	1.2	1.1	1.0	

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

1 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	189											
Dry Particulates + Filter Paper Wt, g	0.2626											
Filter Paper Wt, g	0.2577											
Dry Particulates Wt, g	0.0049											
Volume (mL)	48											
Particulates TSS Conc. (mg/L)	102.083											
Turbidity (NTU)	85											

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

2 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	106	166										
Dry Particulates + Filter Paper Wt, g	0.2546	0.2614										
Filter Paper Wt, g	0.2505	0.2540										
Dry Particulates Wt, g	0.0041	0.0074										
Volume (mL)	51	52										
Particulates TSS Conc. (mg/L)	80.392	142.308										
Turbidity (NTU)	50	95										

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	4	5	6									
Dry Particulates + Filter Paper Wt, g	0.3304	0.4309	0.3441									
Filter Paper Wt, g	0.3260	0.4247	0.3377									
Dry Particulates Wt, g	0.0044	0.0062	0.0064									
Volume (mL)	72	98	76									
Particulates TSS Conc. (mg/L)	61.111	63.265	84.211									
Turbidity (NTU)	38	40	50									

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

6 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	79	80	81	82	83							
Dry Particulates + Filter Paper Wt, g	0.4361	0.4326	0.2494	0.2487	0.2625							
Filter Paper Wt, g	0.4283	0.4234	0.2443	0.2417	0.2561							
Dry Particulates Wt, g	0.0078	0.0092	0.0051	0.0070	0.0064							
Volume (mL)	125	136	75	74	75							
Particulates TSS Conc. (mg/L)	62.400	67.647	68.000	94.595	85.333							
Turbidity (NTU)	34	35	37	55	50							

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

24 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	168	169	170	171	172	173	174	175	176			
Dry Particulates + Filter Paper Wt, g	0.2610	0.2551	0.2568	0.1784	0.2638	0.2670	0.2618	0.2578	0.2461			
Filter Paper Wt, g	0.2526	0.2466	0.2489	0.1735	0.2580	0.2594	0.2538	0.2505	0.2374			
Dry Particulates Wt, g	0.0084	0.0085	0.0079	0.0049	0.0058	0.0076	0.0080	0.0073	0.0087			
Volume (mL)	100	95	90	85	90	107	108	92	90			
Particulates TSS Conc. (mg/L)	84.000	89.474	87.778	57.647	64.444	71.028	74.074	79.348	96.667			
Turbidity (NTU)	37	45	45	45	50	55	50	60	60			

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

48 hour

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	57	58	59	60	61	62	63	64	65			
Dry Particulates + Filter Paper Wt, g	0.1787	0.1673	0.1742	0.1658	0.1739	0.1750	0.1780	0.1796	0.1723			
Filter Paper Wt, g	0.1742	0.1629	0.1697	0.1608	0.1693	0.1708	0.1720	0.1749	0.1675			
Dry Particulates Wt, g	0.0045	0.0044	0.0045	0.005	0.0046	0.0042	0.006	0.0047	0.0048			
Volume (mL)	90	90	81	80	80	80	80	80	80			
Particulates TSS Conc. (mg/L)	50.000	48.889	55.556	62.500	57.500	52.500	75.000	58.750	60.000			
Turbidity (NTU)	34	35	34	35	37	40	45	38	37			

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

4 day (96 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	152	153	154	155	156	157	160	161	121	56		
Dry Particulates + Filter Paper Wt, g	0.2601	0.3310	0.3443	0.3521	0.3412	0.3436	0.3215	0.3440	0.3479	0.3439		
Filter Paper Wt, g	0.2536	0.3243	0.3391	0.3440	0.3333	0.3373	0.3159	0.3371	0.3421	0.3342		
Dry Particulates Wt, g	0.0065	0.0067	0.0052	0.0081	0.0079	0.0063	0.0056	0.0069	0.0058	0.0097		
Volume (mL)	96	101	100	100	100	100	100	100	100	100		
Particulates TSS Conc. (mg/L)	67.708	66.337	52.000	81.000	79.000	63.000	56.000	69.000	58.000	97.000		
Turbidity (NTU)	35	40	45	50	45	50	50	50	45	55		

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Project Location:	Syracuse, NY		
GTX Project No.:	7143		
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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

8 day (192 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	5	116	16	102	22	101	189	112	111	104A		
Dry Particulates + Filter Paper Wt, g	0.2538	0.2654	0.2609	0.2601	0.2628	0.2576	0.2669	0.2492	0.2588	0.2611		
Filter Paper Wt, g	0.2491	0.2613	0.2552	0.2546	0.2570	0.2524	0.2611	0.2446	0.2530	0.2554		
Dry Particulates Wt, g	0.0047	0.0041	0.0057	0.0055	0.0058	0.0052	0.0058	0.0046	0.0058	0.0057		
Volume (mL)	96	100	100	100	100	100	100	100	105	110		
Particulates TSS Conc. (mg/L)	48.958	41.000	57.000	55.000	58.000	52.000	58.000	46.000	55.238	51.818		
Turbidity (NTU)	39	40	40	40	40	38	40	40	39	40		

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US COE EM 1110 - Column Settling Test

SUSPENDED SOLIDS REPORT SHEET

15 day (360 hr)

SAMPLE/PORT	1	2	3	4	5	6	7	8	9	10	11	12
Tare No.	---	156	121	116	189	209	101	178	60	169	197	
Dry Particulates + Filter Paper Wt, g		0.2533	0.2653	0.2549	0.2587	0.1806	0.2645	0.2574	0.2573	0.2623	0.2656	
Filter Paper Wt, g		0.2472	0.2488	0.2501	0.2521	0.1749	0.259	0.2513	0.2518	0.2566	0.2598	
Dry Particulates Wt, g		0.0061	0.0165	0.0048	0.0066	0.0057	0.0055	0.0061	0.0055	0.0057	0.0058	
Volume (mL)		105	113	102	115	110	106	110	99	105	105	
Particulates TSS Conc. (mg/L)		58.095	146.018	47.059	57.391	51.818	51.887	55.455	55.556	54.286	55.238	
Turbidity (NTU)		35	36	33	35	33	33	34	34	34	33	

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID: ---		Sample Type:	bucket	Tested By:	mll
Sample ID:OL-STA-70050		Test Date:	05/23/07	Checked By:	n/a
Depth : ---		Sample Id:	50276		
Test Comment:	---				
Sample Description:	Wet, black silt				
Sample Comment:	---				

Moisture Content of Soil - ASTM D 2216-05

Boring ID	Sample ID	Depth	Description	Moisture Content,%
---	OL-STA-70050	---	Wet, black silt	81.9

Notes: Temperature of Drying : 110° Celsius

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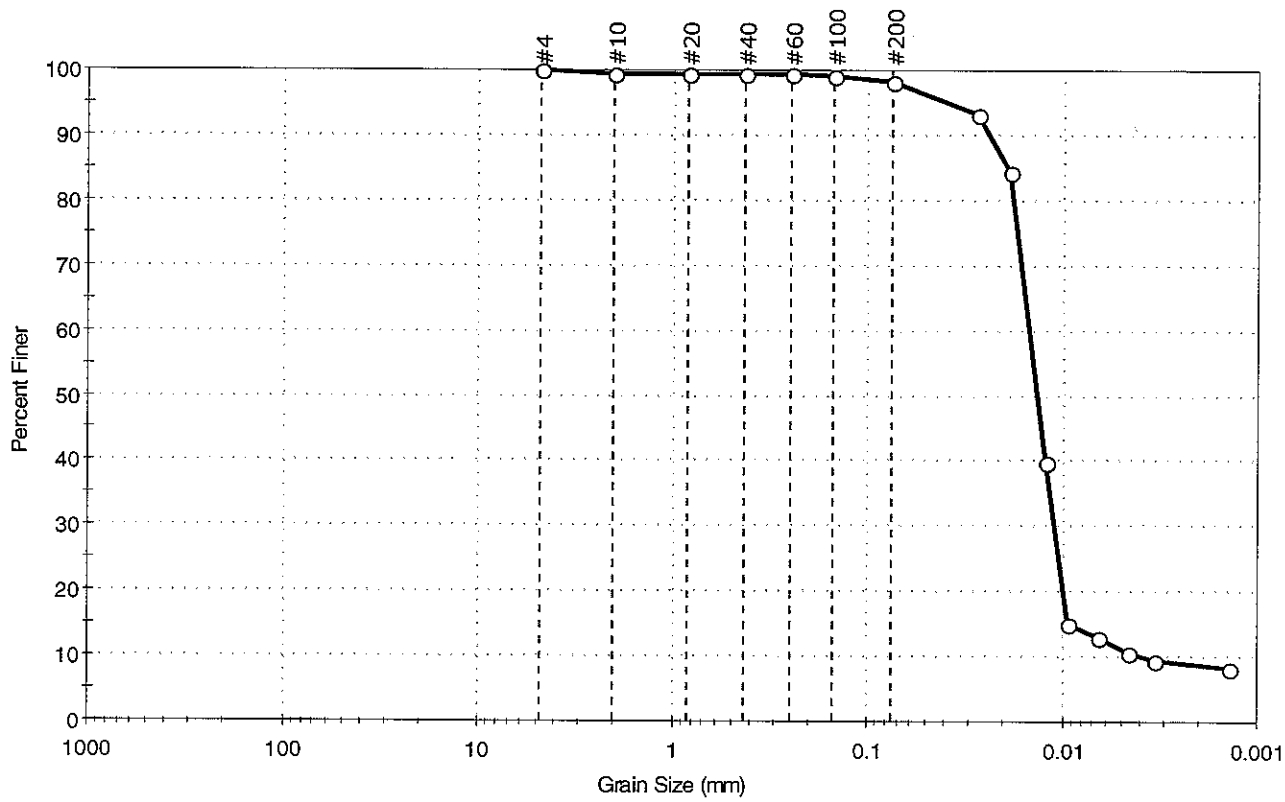
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	mll
Sample ID:OL-STA-70050	Test Date: 04/12/07	Checked By:	jdt
Depth : ---	Test Id: 109700		
Test Comment:	---		
Sample Description:	Wet, black silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.9	98.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	98		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0275	93		
---	0.0186	84		
---	0.0124	40		
---	0.0093	15		
---	0.0066	13		
---	0.0046	11		
---	0.0033	10		
---	0.0014	8		

Coefficients

D_{85} = 0.0192 mm	D_{30} = 0.0111 mm
D_{60} = 0.0149 mm	D_{15} = 0.0092 mm
D_{50} = 0.0136 mm	D_{10} = 0.0038 mm
C_u = N/A	C_c = N/A

Classification

ASTM elastic silt (MH)

AASHTO Clayey Soils (A-7-5 (52))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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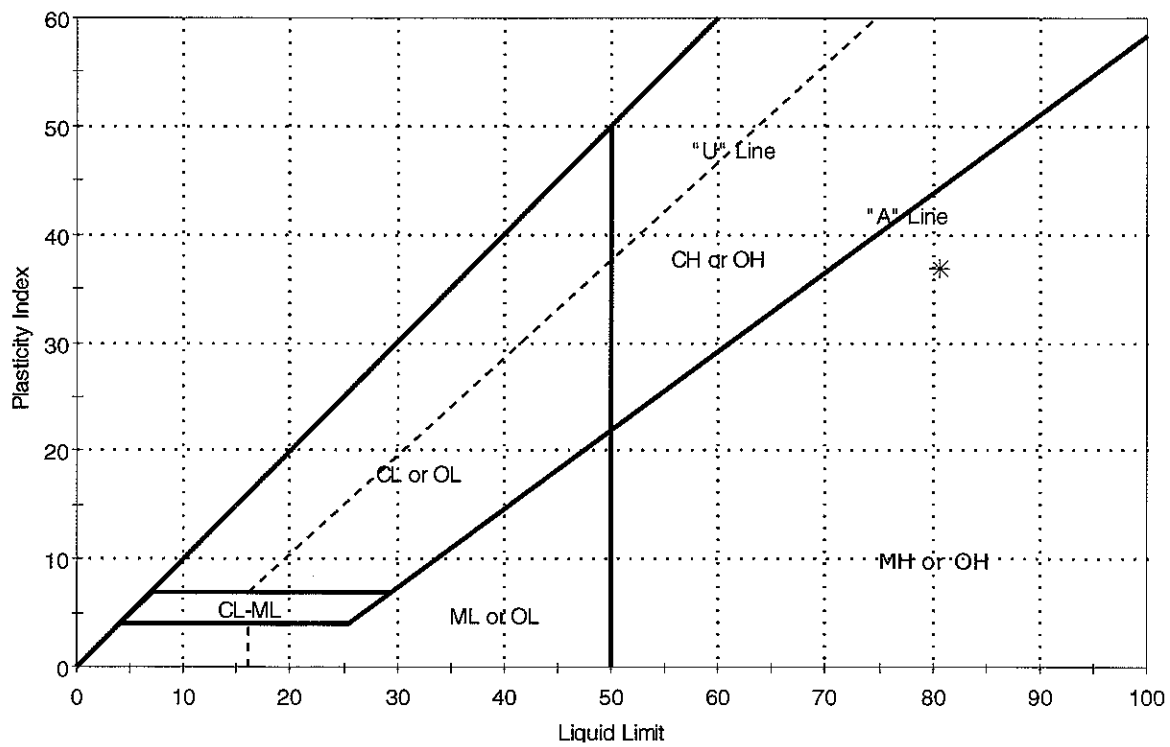
Client:	Parsons Engineering Science		
Project:	Onondaga		
Location:	Syracuse	Project No:	GTX-7143
Boring ID: ---	Sample Type: bucket	Tested By:	ap
Sample ID:OL-STA-70050	Test Date: 04/13/07	Checked By:	jdt
Depth : ---	Test Id: 109717		
Test Comment:	---		
Sample Description:	Wet, black silt		
Sample Comment:	---		

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
✳	OL-STA-70050	---	---	82	81	44	37	1	elastic silt (MH)

Sample Prepared using the WET method
1% Retained on #40 Sieve
Dry Strength: HIGH
Dilentancy: SLOW
Toughness: LOW

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Client:	Parsons Engineering Science				
Project:	Onondaga				
Location:	Syracuse			Project No:	GTX-7143
Boring ID:	---	Sample Type:	bucket	Tested By:	rmt
Sample ID:	OL-STA-70050	Test Date:	04/13/07	Checked By:	jdt
Depth :	---	Test Id:	109751		
Test Comment:	---				
Sample Description:	Wet, black silt				
Sample Comment:	---				

Specific Gravity of Soils by ASTM D 854-06

Boring ID	Sample ID	Depth	Visual Description	Specific Gravity
---	OL-STA-70050	---	Wet, black silt	2.31

Notes: Specific Gravity performed by using method A (oven dried specimens) of ASTM D 854
Moisture Content determined by ASTM D 2216.

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Client:	Parsons Engineering Science
Project Name:	Onondaga
Project Location:	Syracuse, NY
GTX #:	7143
Date:	05/19/07
Tested by:	md
Checked by:	jdt

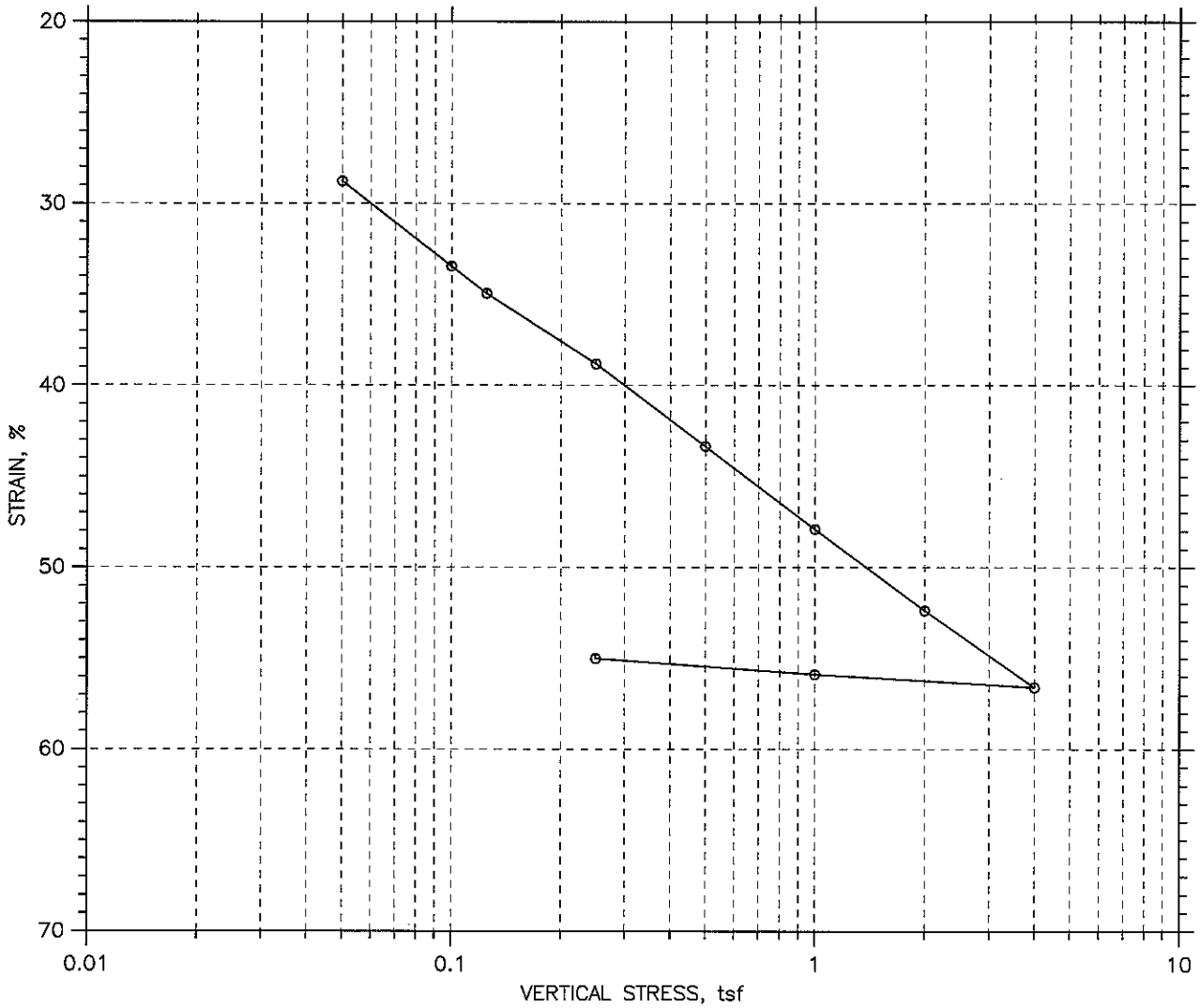
Hand Held Torvane Test Results

Sample ID	Visual Description	Hand Held Torvane Readings, tsf				
		1	2	3	4	Average
OL-STA-70050	Wet, black silt	0.43	0.40	0.45	0.43	0.43

Notes: Tests performed on post Column Settling Test Consolidation specimen

CONSOLIDATION TEST DATA

SUMMARY REPORT



					Before Test	After Test
Overburden Pressure: ---				Water Content, %	150.78	44.42
Preconsolidation Pressure: ---				Dry Unit Weight, pcf	32.02	71.18
Compression Index: ---				Saturation, %	99.41	100.00
Diameter: 7.65 in		Height: 3.4 in		Void Ratio	3.50	1.03
LL: 81	PL: 44	PI: 37	GS: 2.31			

GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

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CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 70050
Test No.: CST-11 LC10

Location: Syracuse NY
Tested By: md
Test Date: 05/15/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Wet, black silt
Remarks: System K

Measured Specific Gravity: 2.31
Initial Void Ratio: 3.50
Final Void Ratio: 1.03

Liquid Limit: 81
Plastic Limit: 44
Plasticity Index: 37

Initial Height: 3.40 in
Specimen Diameter: 7.65 in

	Before Consolidation		After Consolidation	
	Trimmings	Specimen+Ring	Specimen+Ring	Trimmings
Container ID	West 7	RING		12
Wt. Container + Wet Soil, gm	152.84	3294	1897	201.05
Wt. Container + Dry Soil, gm	63.16	1313.5	1313.5	141.78
Wt. Container, gm	8.17	0	0	8.35
Wt. Dry Soil, gm	54.99	1313.5	1313.5	133.43
Water Content, %	163.08	150.78	44.42	44.42
Void Ratio	---	3.50	1.03	---
Degree of Saturation, %	---	99.41	100.00	---
Dry Unit Weight, pcf	---	32.02	71.176	---

CONSOLIDATION TEST DATA

Project: Onondaga
Boring No.: ---
Sample No.: 70050
Test No.: CST-11 LC10

Location: Syracuse NY
Tested By: md
Test Date: 05/15/07
Sample Type: Column

Project No.: GTX-7143
Checked By: jdt
Depth: ---
Elevation: ---

Soil Description: Wet, black silt
Remarks: System K

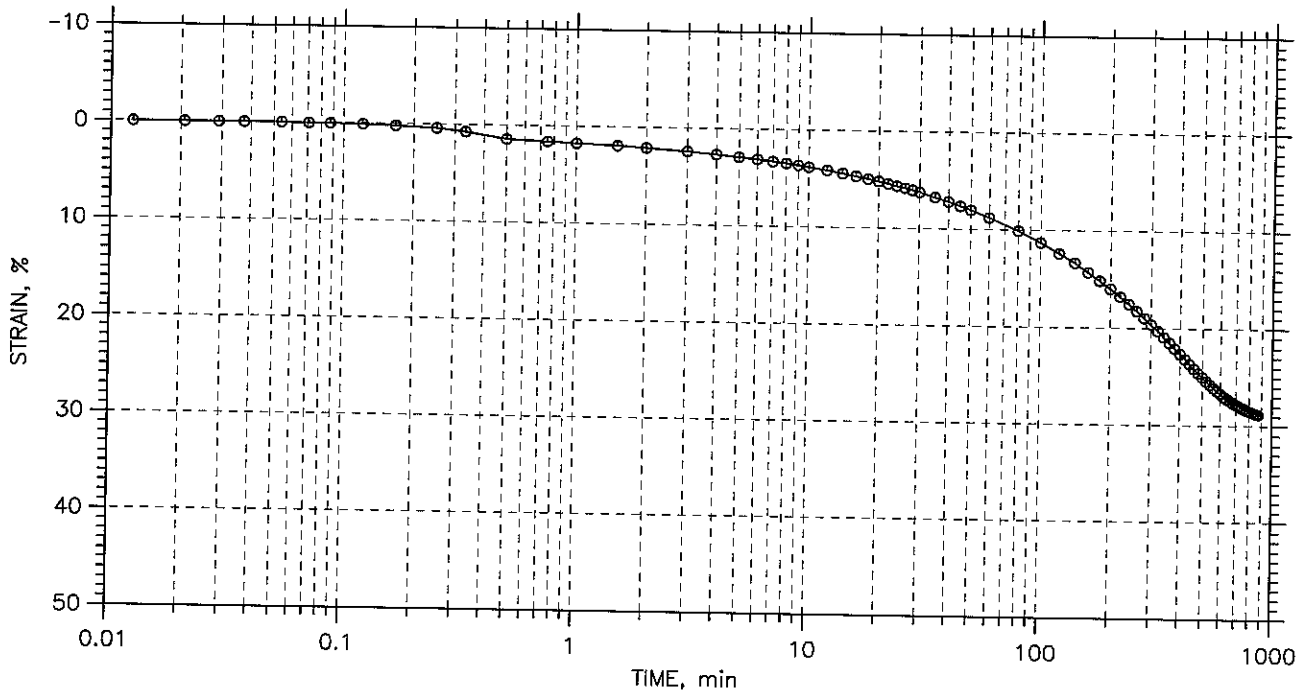
	Applied Stress tsf	Final Displacement in	Void Ratio	Strain at End %	T50 Fitting Sq.Rt. min	T50 Fitting Log min	Coefficient of Consolidation Sq.Rt. ft^2/sec	Coefficient of Consolidation Log ft^2/sec	Coefficient of Consolidation Ave. ft^2/sec
1	0.05	0.9784	2.208	28.78	196.5	0.0	2.46e-007	0.00e+000	2.46e-007
2	0.1	1.137	1.997	33.45	76.6	0.0	4.09e-007	0.00e+000	4.09e-007
3	0.125	1.188	1.930	34.95	138.4	143.6	2.06e-007	1.99e-007	2.03e-007
4	0.25	1.32	1.756	38.81	37.0	38.9	7.10e-007	6.76e-007	6.92e-007
5	0.5	1.474	1.551	43.35	23.3	22.3	9.83e-007	1.03e-006	1.00e-006
6	1	1.629	1.346	47.90	14.0	16.8	1.39e-006	1.16e-006	1.26e-006
7	2	1.781	1.145	52.38	11.7	12.1	1.40e-006	1.36e-006	1.38e-006
8	4	1.924	0.955	56.60	7.5	9.4	1.83e-006	1.46e-006	1.62e-006
9	1	1.9	0.987	55.88	0.4	0.0	2.89e-005	3.35e-004	5.32e-005
10	0.25	1.87	1.026	55.01	6.5	0.0	2.01e-006	0.00e+000	2.01e-006

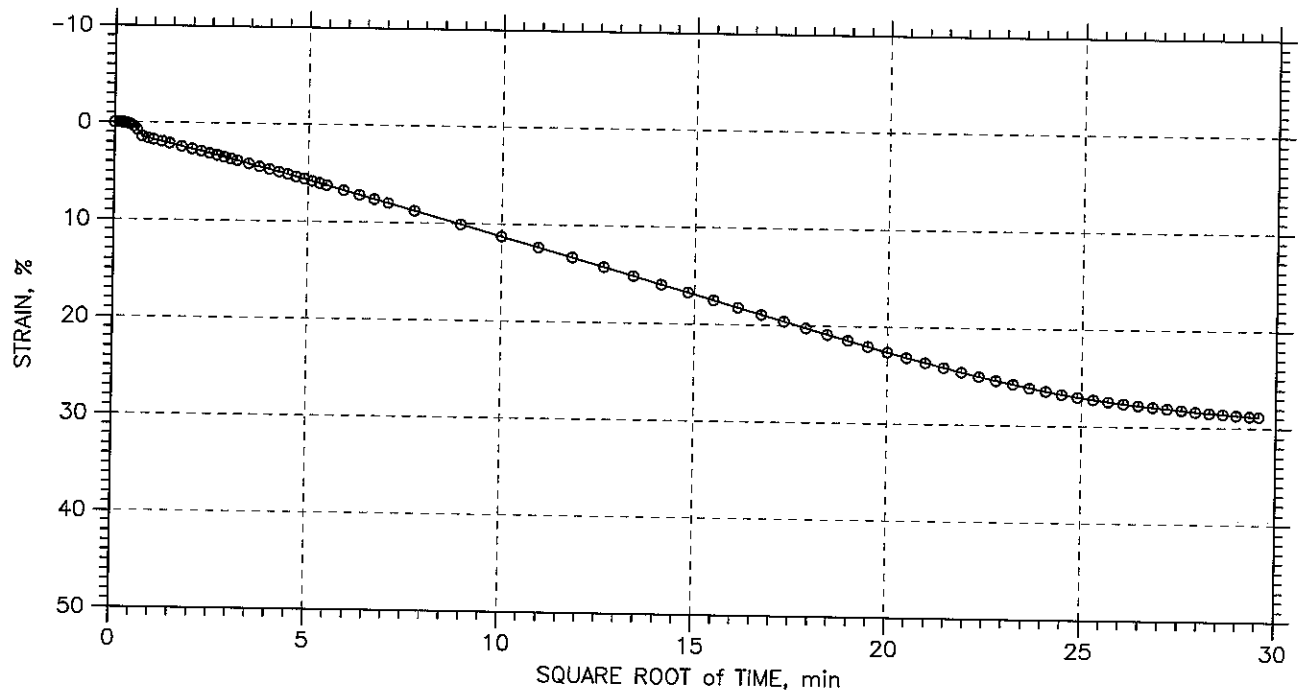
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 1 of 10

Stress: 5.e-002 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

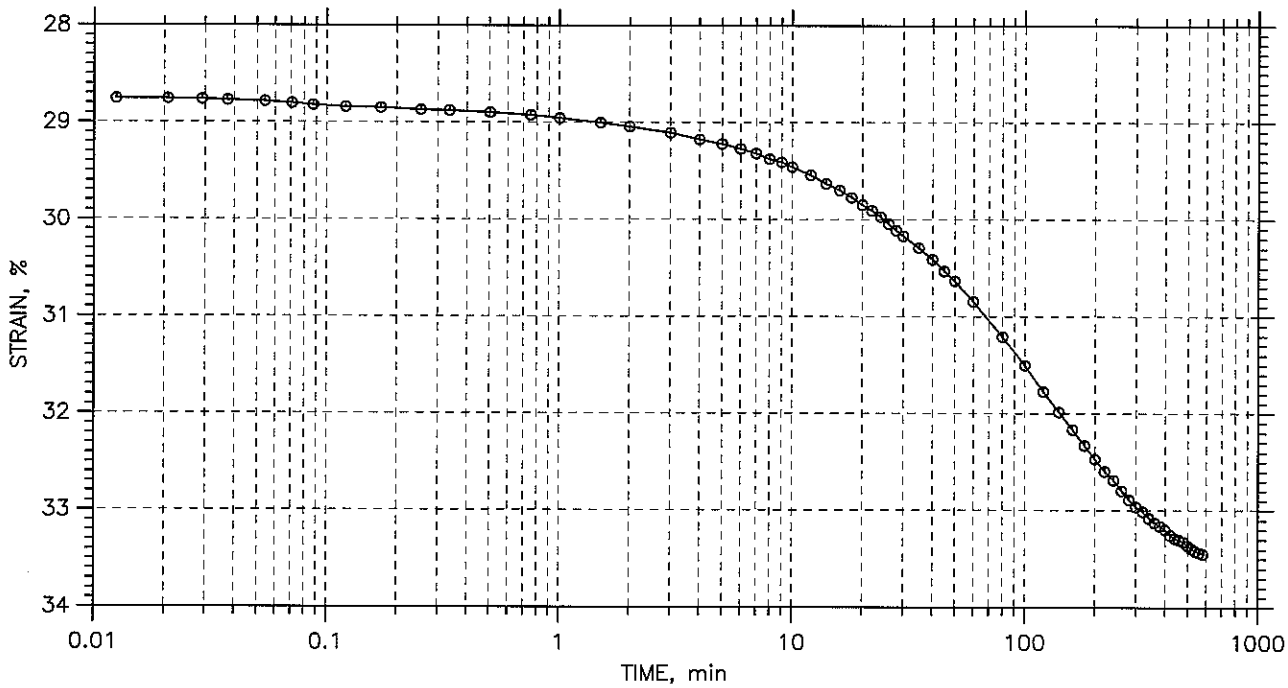
Wed, 23-MAY-2007 10:18:48

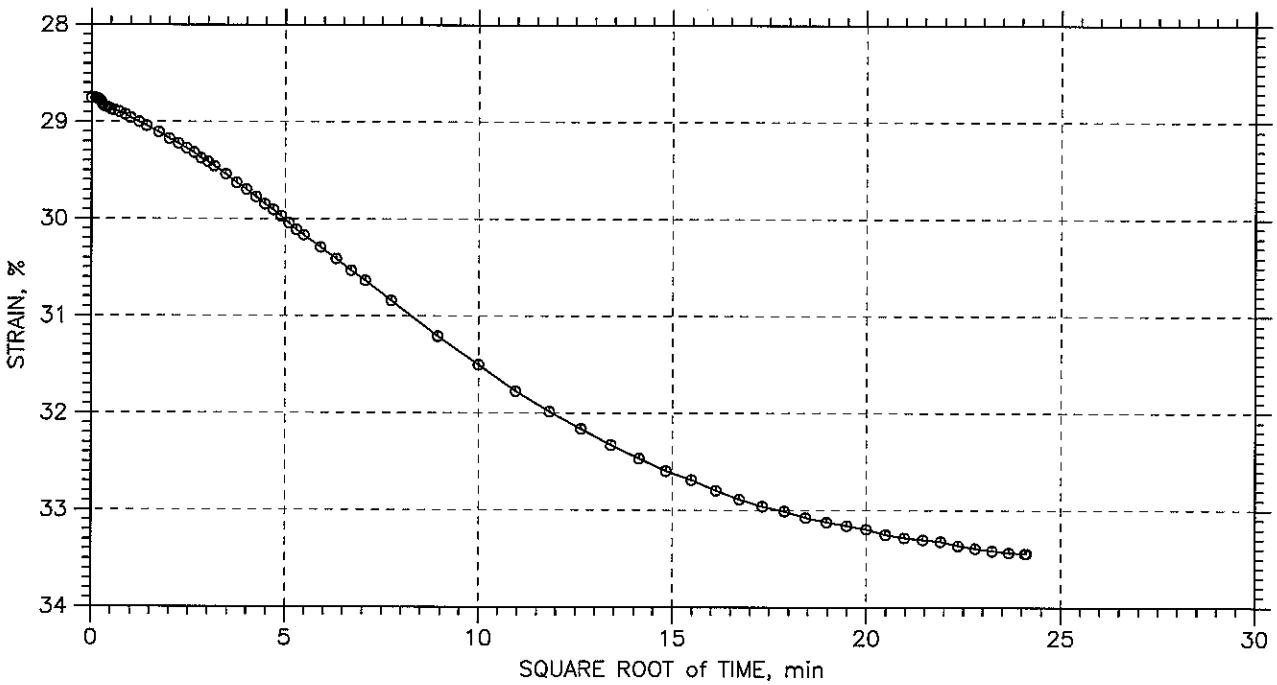
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 2 of 10

Stress: 0.1 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

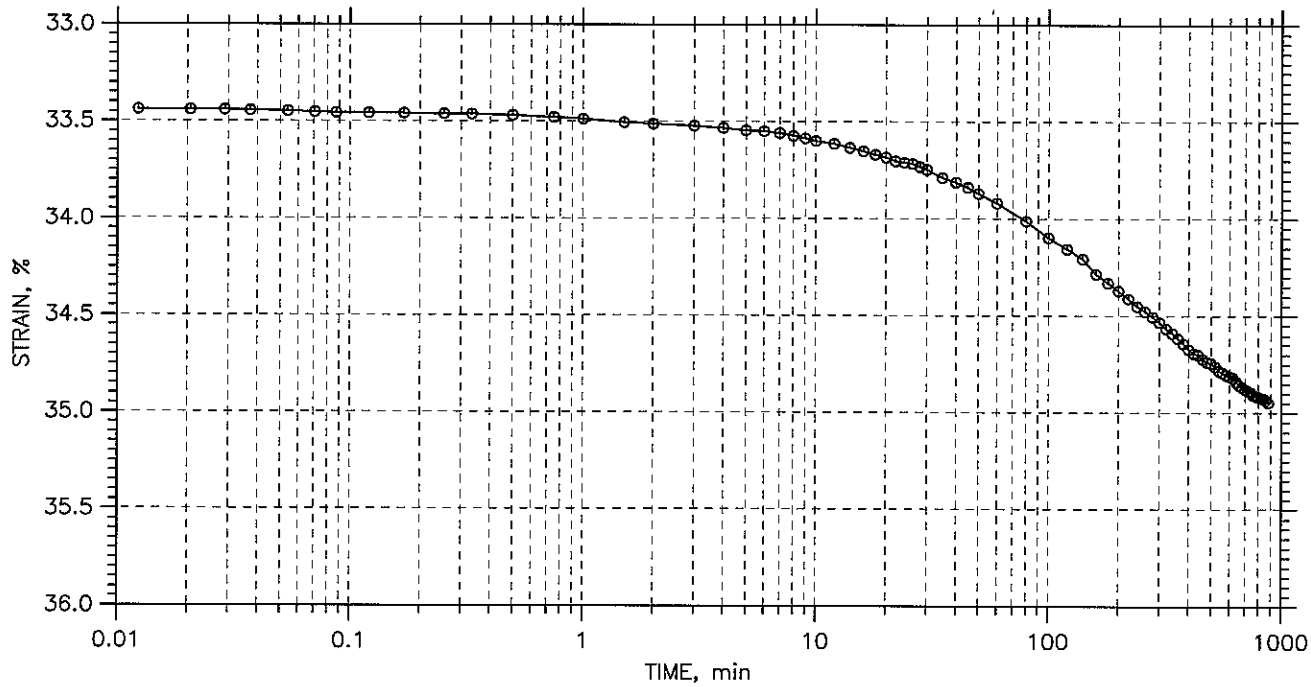
Wed, 23-MAY-2007 10:18:52

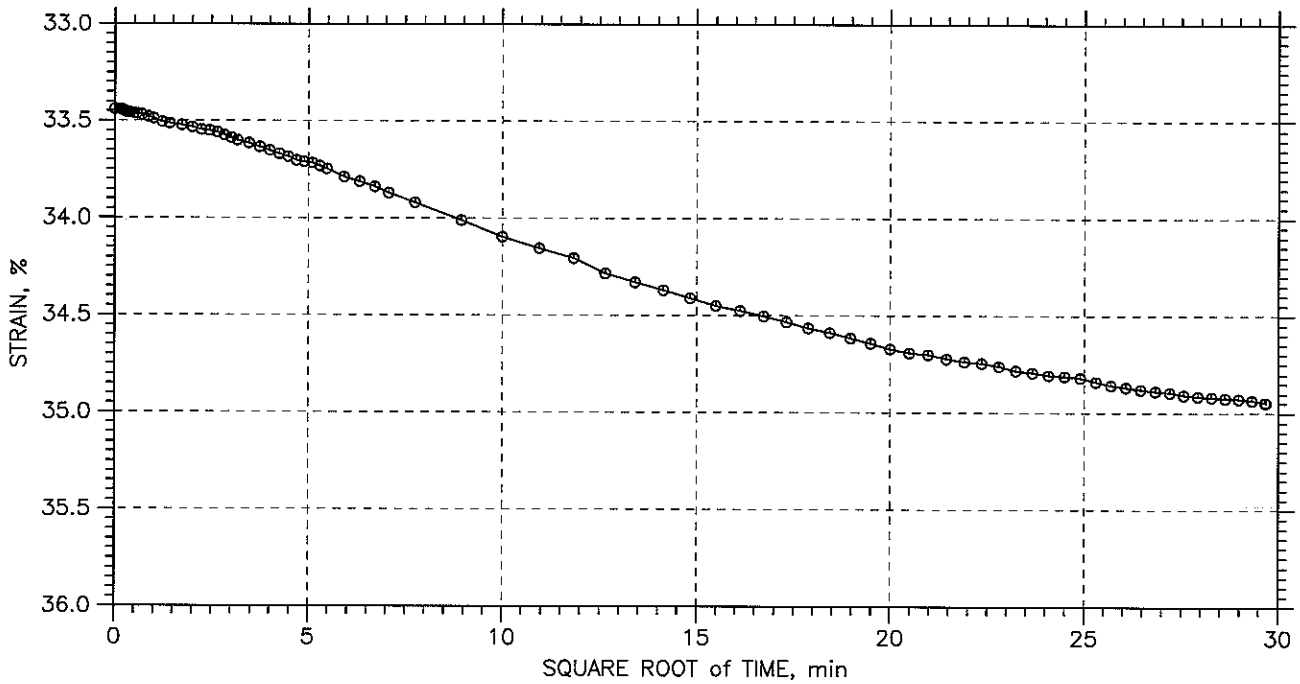
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 3 of 10

Stress: 0.125 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

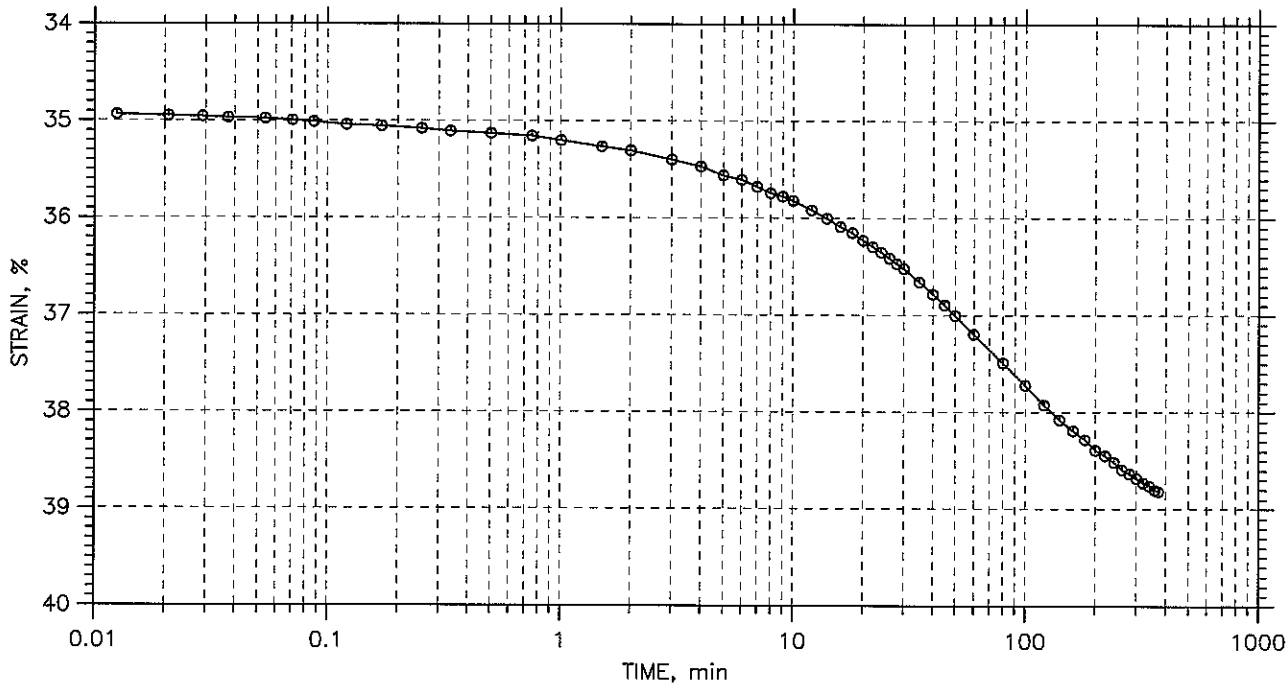
Wed, 23-MAY-2007 10:18:55

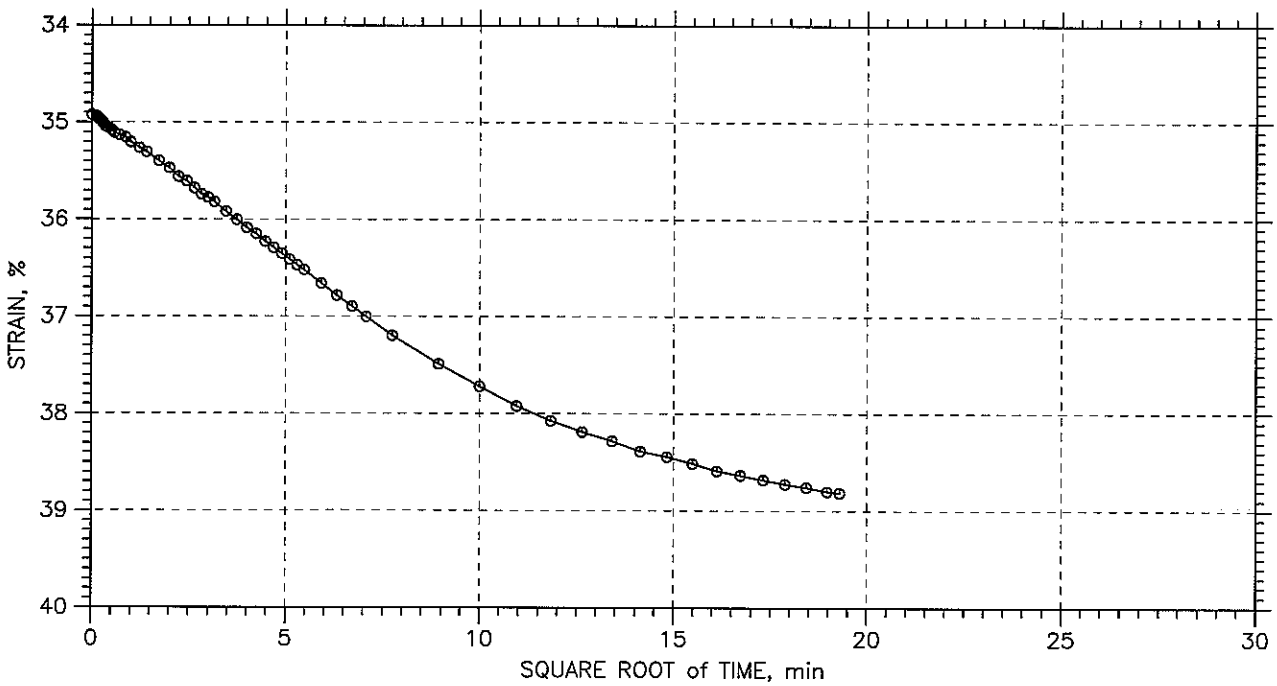
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 4 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

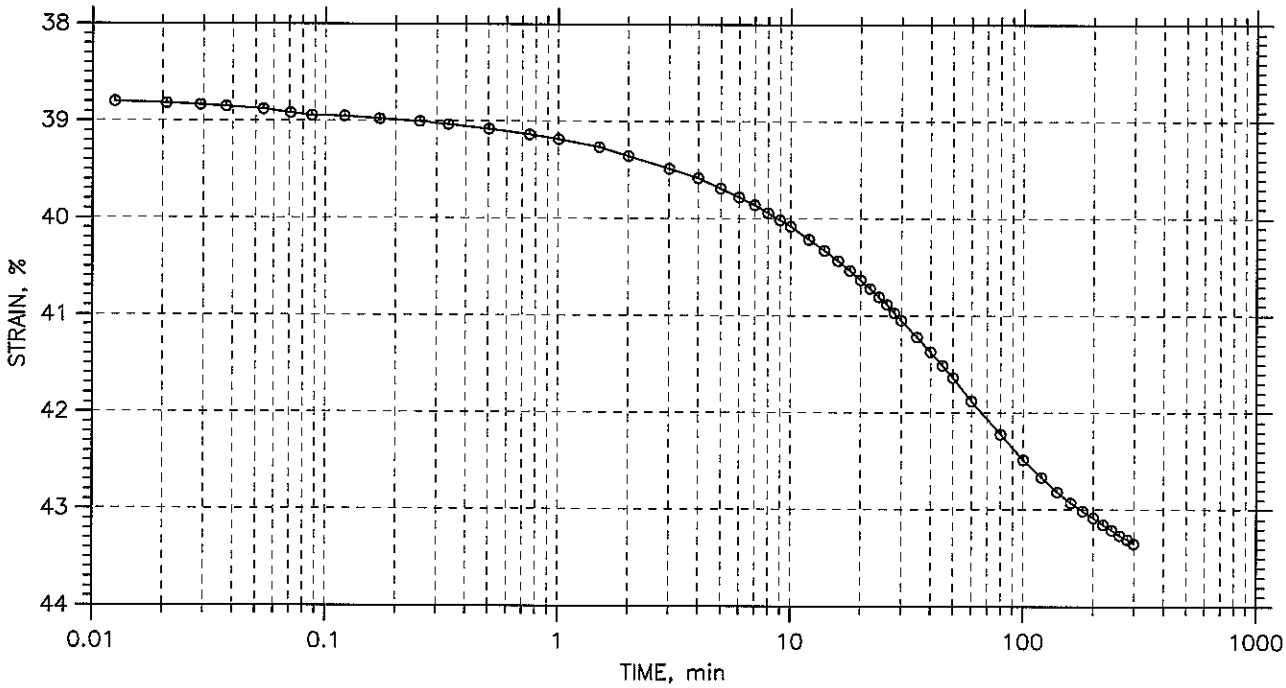
Wed, 23-MAY-2007 10:18:59

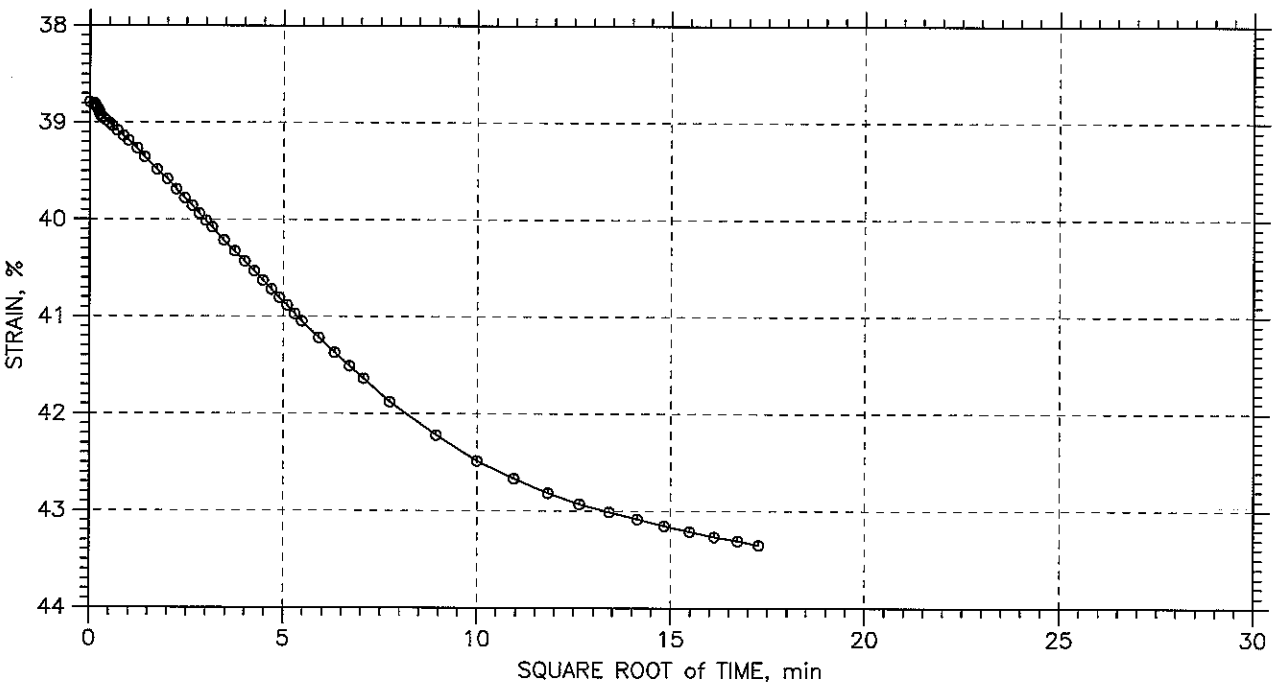
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 5 of 10

Stress: 0.5 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

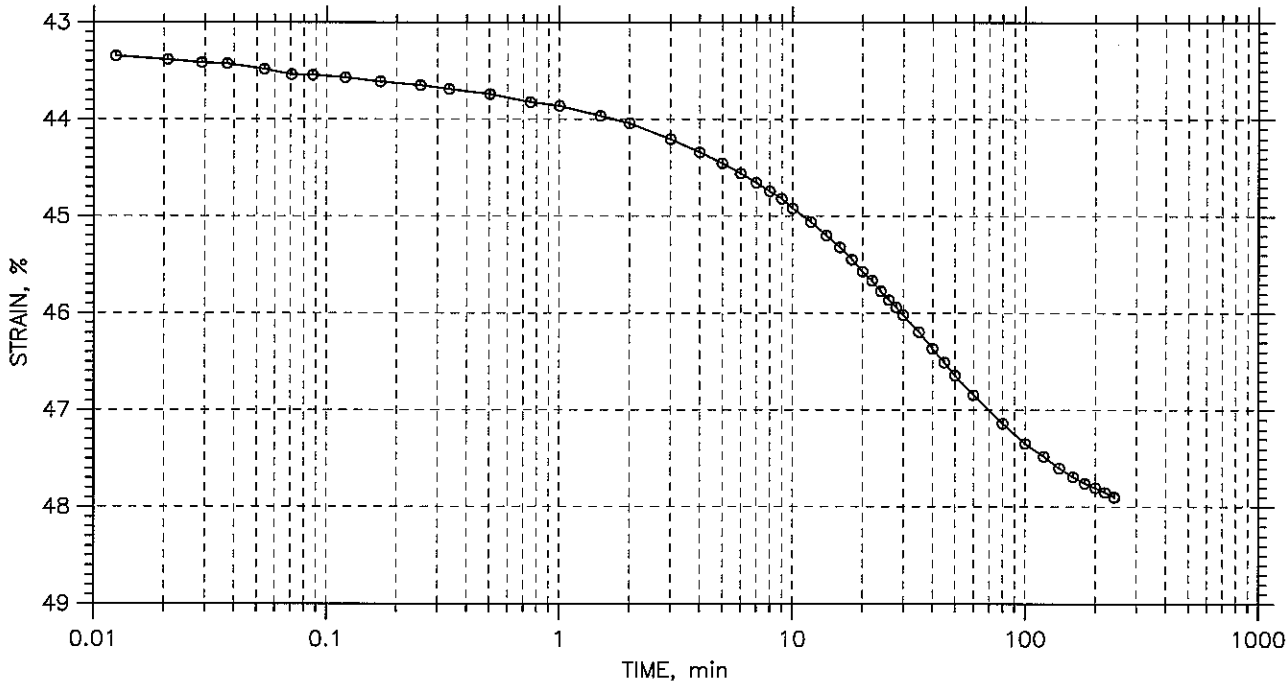
Wed, 23-MAY-2007 10:19:02

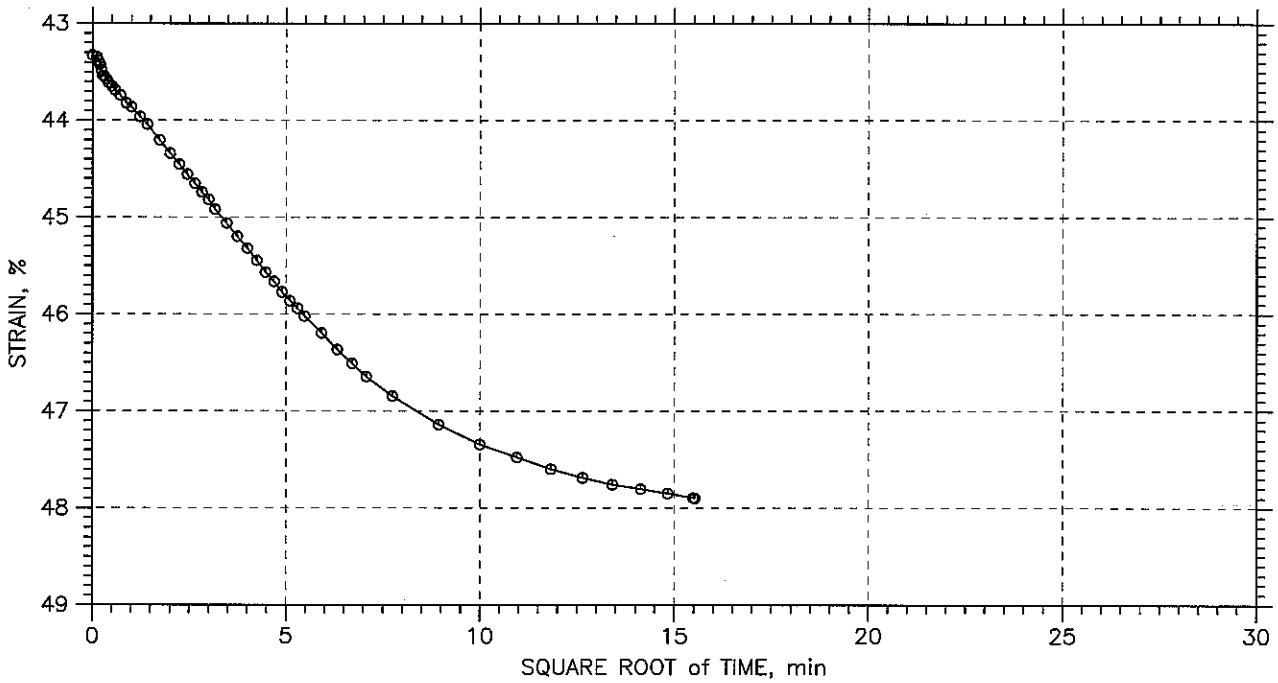
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 6 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

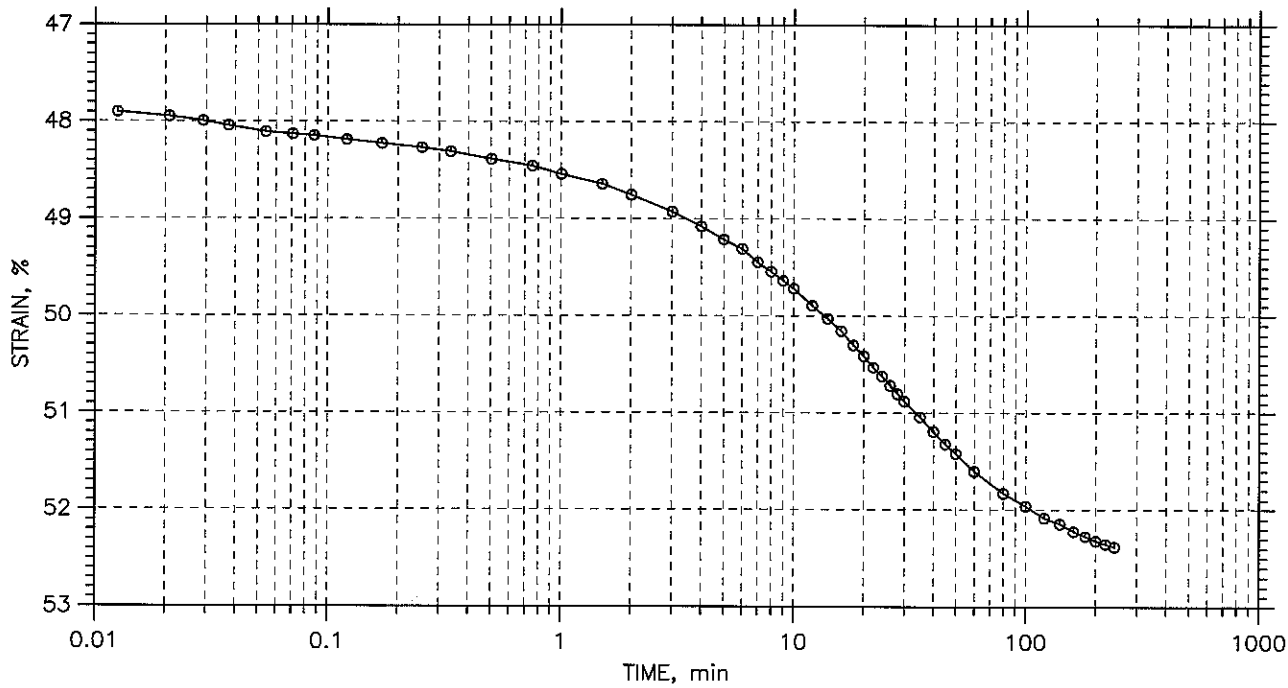
Wed, 23-MAY-2007 10:19:05

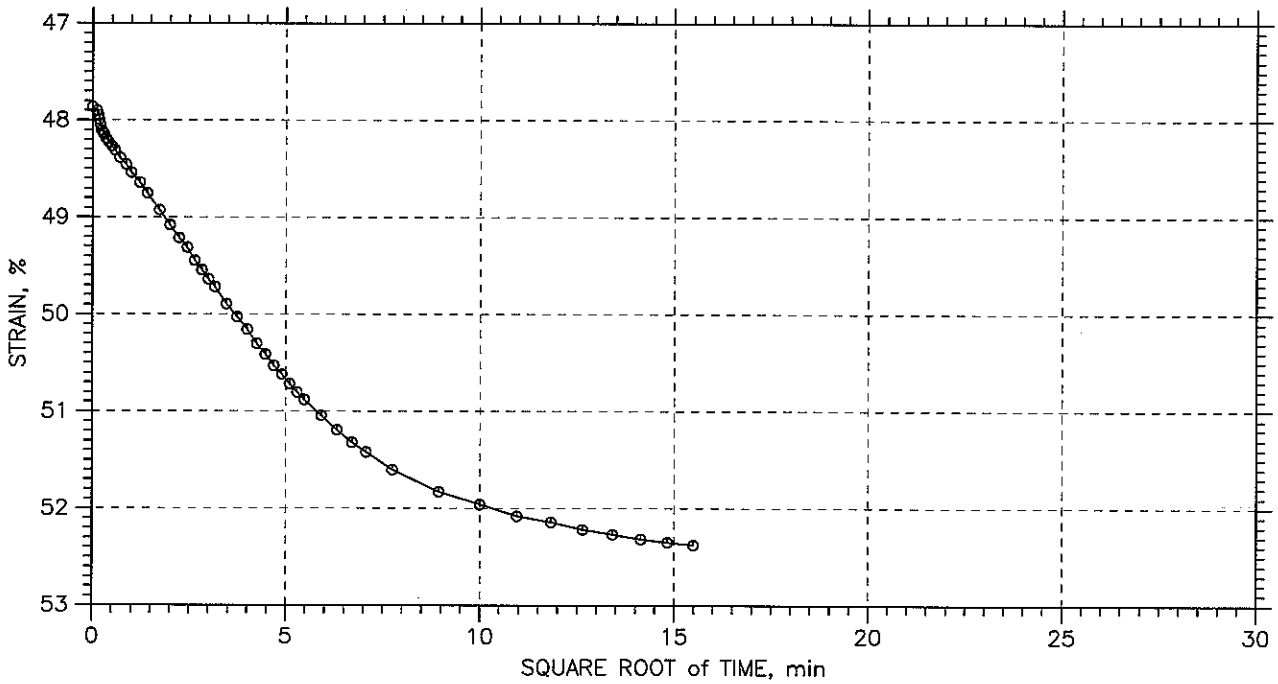
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 7 of 10

Stress: 2. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

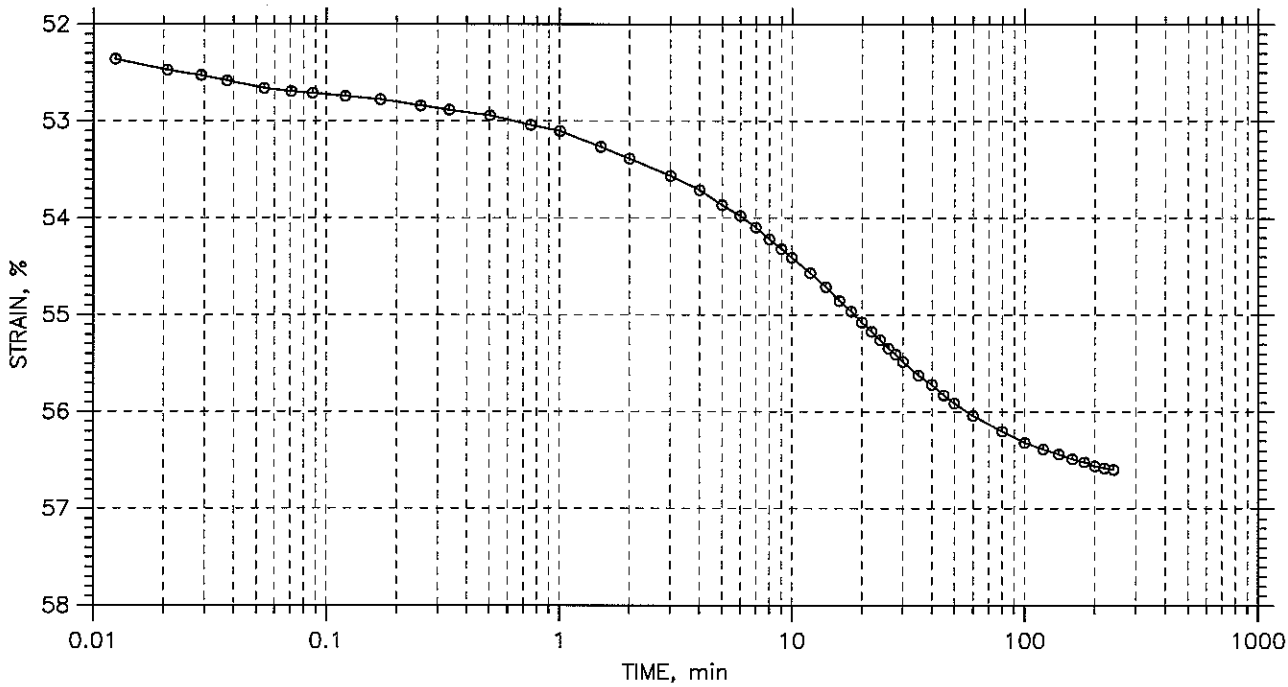
Wed, 23-MAY-2007 10:19:08

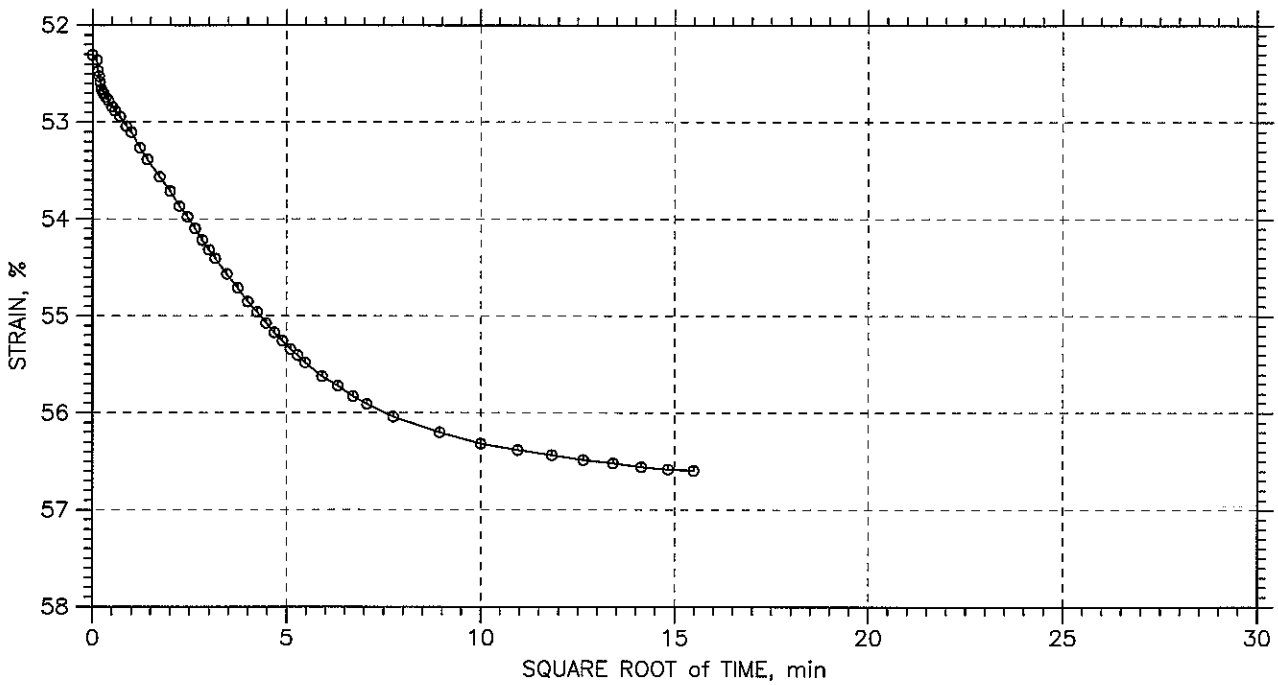
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 8 of 10

Stress: 4. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

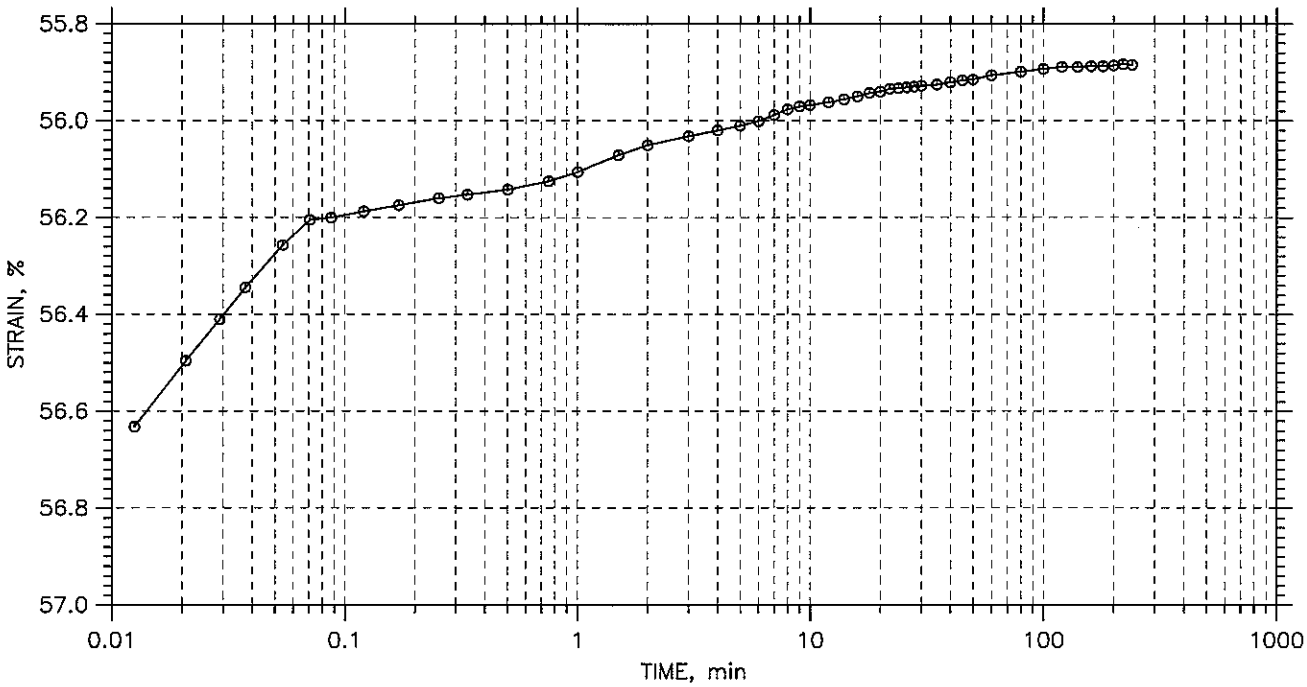
Wed, 23-MAY-2007 10:19:12

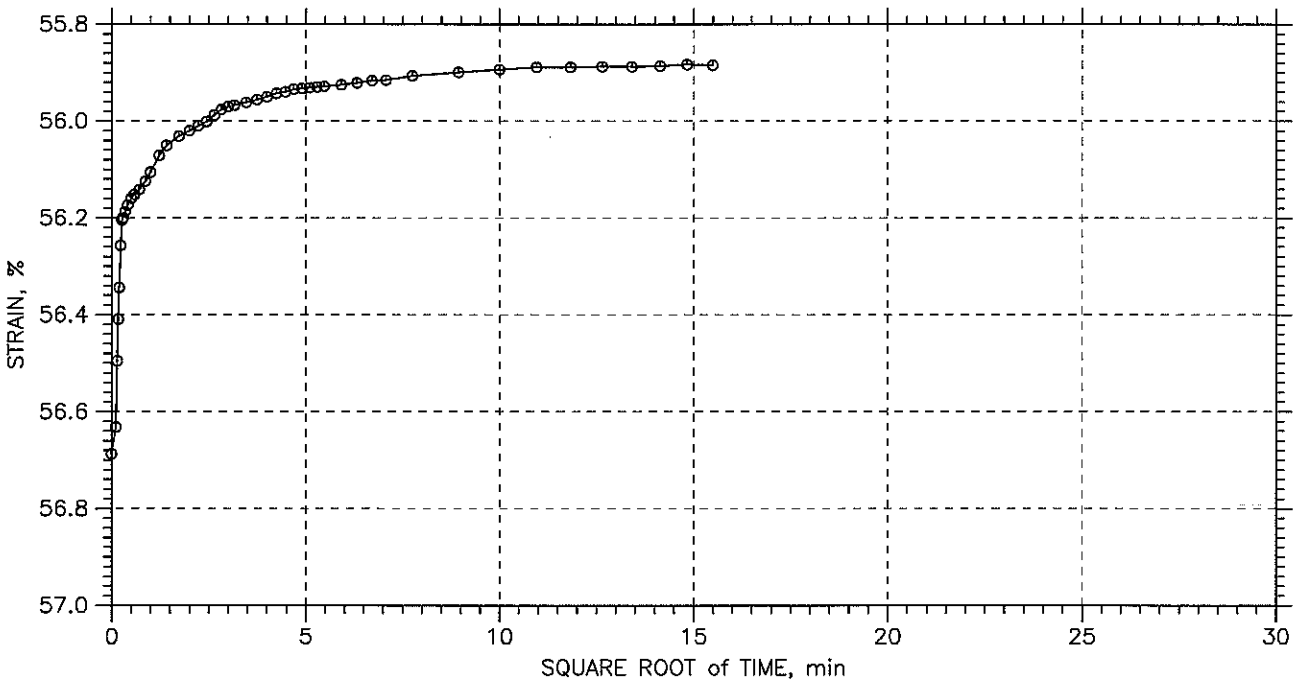
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 9 of 10

Stress: 1. tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

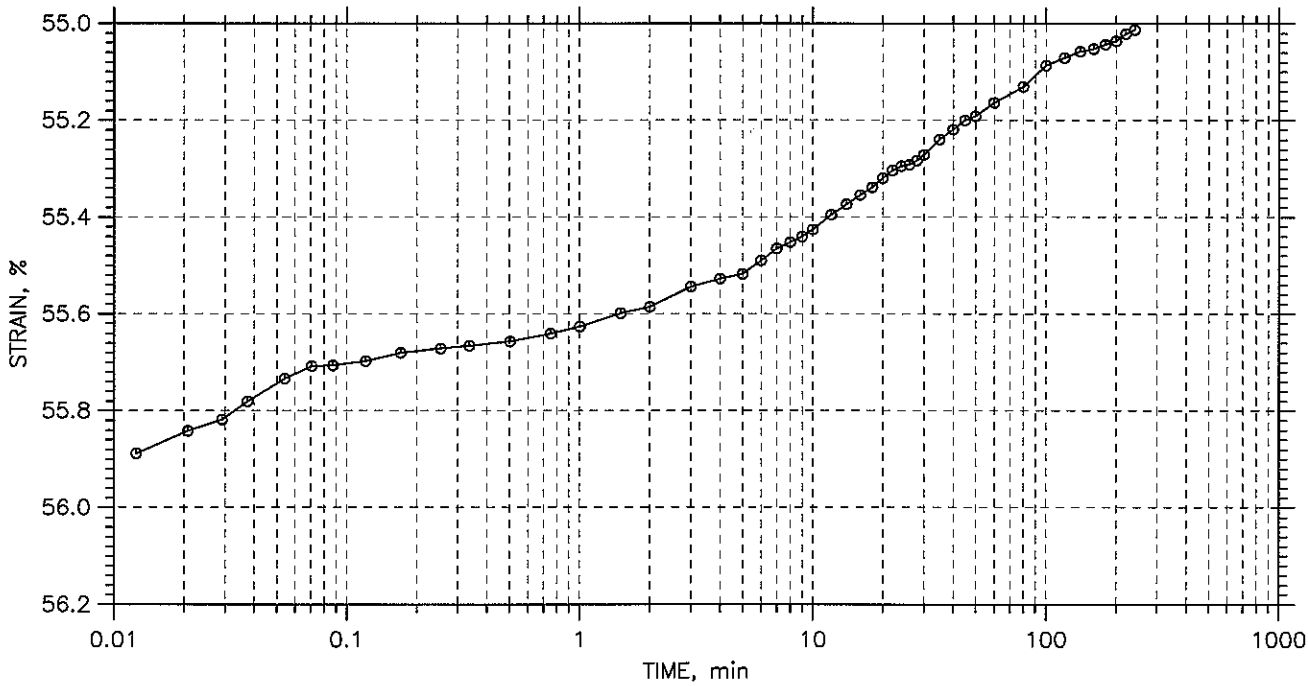
Wed, 23-MAY-2007 10:19:15

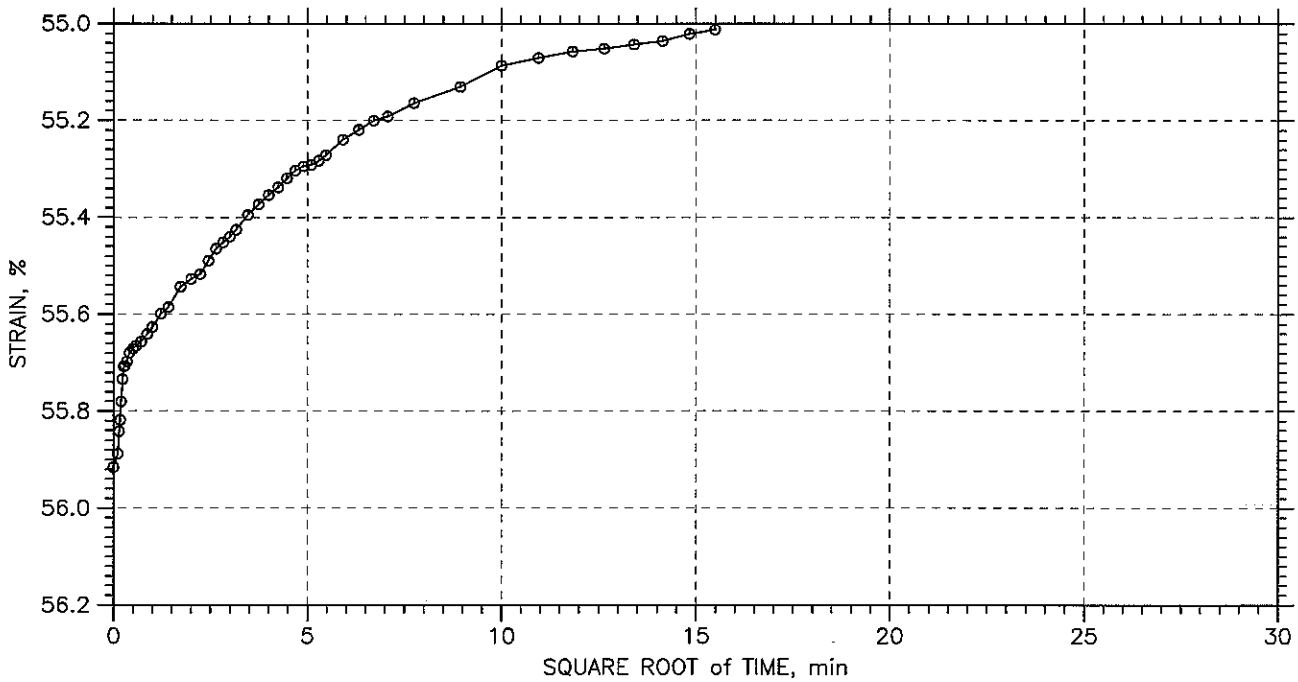
CONSOLIDATION TEST DATA

TIME CURVES

Constant Load Step: 10 of 10

Stress: 0.25 tsf





GeoTesting express a subsidiary of Geocomp Corporation	Project: Onondaga	Location: Syracuse NY	Project No.: GTX-7143
	Boring No.: ---	Tested By: md	Checked By: jdt
	Sample No.: 70050	Test Date: 05/15/07	Depth: ---
	Test No.: CST-11 LC10	Sample Type: Column	Elevation: ---
	Description: Wet, black silt		
	Remarks: System K		

Wed, 23-MAY-2007 10:19:18

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WARRANTY and LIABILITY

GeoTesting Express (GTX) warrants that all tests it performs are run in general accordance with the specified test procedures and accepted industry practice. GTX will correct or repeat any test that does not comply with this warranty. GTX has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

GTX may report engineering parameters that require us to interpret the test data. Such parameters are determined using accepted engineering procedures. However, GTX does not warrant that these parameters accurately reflect the true engineering properties of the *in situ* material. Responsibility for interpretation and use of the test data and these parameters for engineering and/or construction purposes rests solely with the user and not with GTX or any of its employees.

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Commonly Used Symbols

A	pore pressure parameter for $\Delta\sigma_1 - \Delta\sigma_3$
B	pore pressure parameter for $\Delta\sigma_3$
CIU	isotropically consolidated undrained triaxial shear test
CR	compression ratio for one dimensional consolidation
C_c	coefficient of curvature, $(D_{30})^2 / (D_{10} \times D_{60})$
C_u	coefficient of uniformity, D_{60}/D_{10}
C_c	compression index for one dimensional consolidation
C_α	coefficient of secondary compression
c_v	coefficient of consolidation
c	cohesion intercept for total stresses
c'	cohesion intercept for effective stresses
D	diameter of specimen
D_{10}	diameter at which 10% of soil is finer
D_{15}	diameter at which 15% of soil is finer
D_{30}	diameter at which 30% of soil is finer
D_{50}	diameter at which 50% of soil is finer
D_{60}	diameter at which 60% of soil is finer
D_{85}	diameter at which 85% of soil is finer
d_{50}	displacement for 50% consolidation
d_{90}	displacement for 90% consolidation
d_{100}	displacement for 100% consolidation
E	Young's modulus
e	void ratio
e_c	void ratio after consolidation
e_o	initial void ratio
G	shear modulus
G_s	specific gravity of soil particles
H	height of specimen
PI	plasticity index
i	gradient
K_o	lateral stress ratio for one dimensional strain
k	permeability
LI	Liquidity Index
m_v	coefficient of volume change
n	porosity
PI	plasticity index
P_c	preconsolidation pressure
p	$(\sigma_1 + \sigma_3) / 2$, $(\sigma_v + \sigma_h) / 2$
p'	$(\sigma'_1 + \sigma'_3) / 2$, $(\sigma'_v + \sigma'_h) / 2$
p'_c	p' at consolidation
Q	quantity of flow
q	$(\sigma_1 - \sigma_3) / 2$
q_f	q at failure
q_o, q_i	initial q
q_c	q at consolidation
S	degree of saturation
SL	shrinkage limit
s_u	undrained shear strength
T	time factor for consolidation
T	temperature
t	time
U, UC	unconfined compression test
UU, Q	unconsolidated undrained triaxial test
u_a	pore gas pressure
u_e	excess pore water pressure
u, u_w	pore water pressure
V	total volume
V_g	volume of gas
V_s	volume of solids
V_v	volume of voids
V_w	volume of water
V_o	initial volume
v	velocity
W	total weight
W_s	weight of solids
W_w	weight of water
w	water content
w_c	water content at consolidation
w_f	final water content
w_l	liquid limit
w_n	natural water content
w_p	plastic limit
w_s	shrinkage limit
w_o, w_i	initial water content
α	slope of q_f versus p_f
α'	slope of q_f versus p_f'
γ_t	total unit weight
γ_d	dry unit weight
γ_s	unit weight of solids
γ_w	unit weight of water
ε	strain
ε_{vol}	volume strain
ε_h, ε_v	horizontal strain, vertical strain
μ	Poisson's ratio, also viscosity
σ	normal stress
σ'	effective normal stress
σ_c, σ'_c	consolidation stress in isotropic stress system
σ_h, σ'_h	horizontal normal stress
σ_v, σ'_v	vertical normal stress
σ_1	major principal stress
σ_2	intermediate principal stress
σ_3	minor principal stress
τ	shear stress
φ	friction angle based on total stresses
φ'	friction angle based on effective stresses
φ'_r	residual friction angle
φ_{ult}	φ for ultimate strength

Table H1
Column Settling Data Study

OL-STA-10031

Type of Setting:		Zone			13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	84.80	7.067	84.80	7.067													
1 hour	84.80	7.067	58.10	4.842										70.29	72.222	57.554	43.939
2 hour	84.40	7.033	42.10	3.508							39.568	44.604	36.429	35.714	31.69	21.622	14.583
4 hour	83.30	6.942	26.00	2.167					32.374	25.532	20	22.695	17.021	19.286	21.642	11.268	9.2857
6 hour	82.10	6.842	24.00	2.000				88	10.638	1.4085	9.0278	5.6338	5.5172	8.0882	10.638	2.8369	4.4118
24 hour	79.20	6.600	16.80	1.400			37.589	32.847	13.38	12.782	11.029	16.084	12.143	13.139	6.5217	9.4203	8.9552
48 hour	79.20	6.600	15.00	1.250			20.979	17.931	2.7027	3.5211	2.7972	0.7299	2.1898	5.1095	0.7042	2.2059	---
96 hour		0.000		0.000			31.884	27.083	10.87	8.6331	3.4965	4.8611	3.5211	4.2553	5.1095	2.1898	---
192 hour	74.20	6.183	14.30	1.192			25	20	6.8027	8.4507	14.286	42.254	13.287	7.971	7.971	10.294	---
360 hour	72.50	6.042	14.30	1.192			21.678	14.685	10.072	8.2192	9.3525	10.638	5.7971	6.6176	14.493	9.4203	---

Table H1
Column Settling Data Study

OL-STA-10114

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	84.50	7.042	84.50	7.042													
1 hour	84.50	7.042	42.40	3.533							97.333	96.324	94.286	106.47	90.714	74.815	75.373
2 hour	83.30	6.942	28.75	2.396					60.584	49.296	46.897	42.754	43.571	52.482	49.286	50	47.407
4 hour	82.10	6.842	20.40	1.700				55.97	33.099	37.778	38.621	33.562	35.294	39.416	46.212	43.846	40.299
6 hour	80.70	6.725	18.70	1.558			42	31.915	39.13	35.211	31.429	30.435	30	35.075	37.037	36.957	36.09
24 hour	77.10	6.425	13.50	1.125		25.735	19.565	17.606	26.471	22.378	17.021	19.565	23.529	27.941	27.536	22.628	---
48 hour	76.10	6.342	12.00	1.000		322.46	63.359	36.111	26.119	22.137	19.084	17.323	17.094	15.789	9.6	10.294	---
96 hour	74.30	6.192	11.90	0.992	311.19	48.276	21.898	21.481	14.179	19.858	10.219	10.949	6.6667	5.3435	4.6154	5.2239	---
192 hour	72.20	6.017	11.40	0.950	141.41	19.286	9.396	9.0909	7.5758	9.9338	3.5714	7.0423	8.5714	8.0292	5.1095	---	---
360 hour	72.20	6.017	11.25	0.938	18.881	17.241	11.268	8.2759	6.7114	4.7297	3.5211	4.9296	4.2254	8.6331	7.9137	---	---

Table H1
Column Settling Data Study

OL-STA-10115

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	85.50	7.125	85.50	7.125													
1 hour	85.50	7.125	63.25	5.271										116.67	86.139	142.24	112.1
2 hour	85.00	7.083	48.50	4.042								72.34	70.29	65.185	55.072	42.446	39.062
4 hour	84.40	7.033	30.25	2.521					60.15	52.349	44.056	41.135	36.62	28.571	24.138	16.176	14.394
6 hour	82.90	6.908	26.25	2.188					18.699	15.909	15.714	15.385	16.418	14.706	12.319	15.108	9.7744
24 hour	81.75	6.813	18.90	1.575			162.22	105.11	27.82	16.667	13.043	13.869	13.139	11.852	9.3023	12.857	13.139
48 hour	81.75	6.813	16.20	1.350			135.21	90.299	36.957	27.778	24.444	20.29	20.29	22.059	17.518	20	20.455
96 hour	77.20	6.433	15.80	1.317			67.143	41.429	33.813	17.518	22.302	18.116	19.595	21.739	20	17.266	---
192 hour	75.70	6.308	15.50	1.292			28.777	8.8889	15.942	11.765	13.889	8.3916	10.294	12.587	5.7971	13.139	---
360 hour	74.00	6.167	15.40	1.283			26.056	17.931	7.6389	13.475	12.766	9.7015	7.4074	9.8592	7.8014	16.296	---

Table H1
Column Settling Data Study

OL-STA-10116

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	85.25	7.104	85.25	7.104													
1 hour	85.25	7.104	54.40	4.533									238.69	116.03	175	160	70.803
2 hour	84.60	7.050	42.25	3.521							78.723	76.596	60.145	61.654	29.63	45.255	23.308
4 hour	83.60	6.967	23.80	1.983				45.714	35.075	25.899	26.429	22.222	24.113	20.455	12.782	10.714	4.9296
6 hour	82.25	6.854	21.10	1.758				24.06	22.308	20.144	18.519	15.556	15.672	27.941	11.029	8.0882	7.5188
24 hour	80.90	6.742	14.90	1.242			8.6667	10.563	7.0423	3.0075	6.8702	5.8824	5.303	6.9231	3.0303	5.9259	7.8125
48 hour	79.20	6.600	13.60	1.133			60.145	31.387	21.481	11.111	10	6.338	6.4286	6.4748	6.993	9.3525	---
96 hour		0.000		0.000		140.14	60.714	36.691	25	25	19.858	23.134	18.571	20.144	18.571	16.935	---
192 hour	74.50	6.208	12.50	1.042		30.345	16.901	7.6389	8.5106	7.2993	7.1429	7.2993	9.8592	13.235	5.7554	13.869	---
360 hour	73.10	6.092	12.40	1.033		26.531	4.9645	7.0922	4.3478	2.1127	5.9701	3.5461	5.1095	10.072	11.679	4.9645	---

Table H1
Column Settling Data Study

OL-STA-10117

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
0	84.25	7.021	84.25	7.021													
1 hour	84.00	7.000	64.25	5.354											45.946	46.429	32.353
2 hour	83.10	6.925	49.90	4.158									38.655	30.833	28.926	19.658	16.393
4 hour	83.10	6.925	33.60	2.800						39.516	63.2	18.333	24.138	24.793	19.328	25	17.355
6 hour	82.10	6.842	30.10	2.508					43.846	35.461	36.29	28.099	37.6	20.492	28.926	21.739	26.126
24 hour	79.30	6.608	21.90	1.825				304.51	28.369	24.823	31.541	25.714	26.619	21.481	20.741	25.564	20.455
48 hour	77.80	6.483	18.75	1.563				70.896	34.286	32.609	33.083	31.618	29.104	29.134	33.594	25.904	---
120 hour	75.80	6.317	17.90	1.492			68.939	30.4	20.161	17.969	15.2	16.535	14.286	6.2016	8.8	7.8014	---
192 hour	73.90	6.158	17.80	1.483			36.719	26.667	16.418	12.766	12.838	15.827	10.714	16.296	12.308	9.3023	---
360 hour	73.80	6.150	17.80	1.483			78.169	48.649	35.714	34.694	29.577	25.85	24.476	28.571	22.917	---	---

Table H1
Column Settling Data Study

OL-STA-10118

Type of Setting:		Zone			13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	84.40	7.033	84.40	7.033													
1 hour	84.40	7.033	69.10	5.758												51.304	37.391
2 hour	84.20	7.017	57.50	4.792										36.434	34.646	19.672	14.167
4 hour	83.70	6.975	37.60	3.133							50	37.405	32.374	25.532	32.847	29.545	2.9851
6 hour	83.70	6.975	26.90	2.242					100.63	38.889	26.573	27.143	35.556	26.056	30.496	22.857	21.805
24 hour	83.70	6.975	19.50	1.625				295.56	48.551	49.635	51.389	40.845	40.141	38.686	41.727	44.604	130.15
48 hour	79.70	6.642	16.80	1.400			1000	30.935	10	11.511	7.0922	10.345	7.8571	9.2857	8.6331	14.815	21.705
120 hour	76.10	6.342	16.20	1.350			46.939	23.741	13.869	11.972	10.638	7.6389	15.493	28.369	29.286	12.057	---
192 hour	74.00	6.167	16.10	1.342			72.593	48.12	41.606	39.286	27.778	2.1277	24.088	30.882	26.866	21.898	---
360 hour	77.00	6.417	16.00	1.333			37.5	24.342	17.808	16.892	15.972	13.571	16.901	15.108	4.6875	---	---

Table H1
Column Settling Data Study

OL-STA-10119

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	84.25	7.021	84.25	7.021													
1 hour	84.25	7.021	57.40	4.783										112.31	110.16	94.444	90
2 hour	83.70	6.975	46.60	3.883								70.922	60.432	60.448	46.043	28.671	37.956
4 hour	82.90	6.908	29.20	2.433					66.216	64.789	55.245	44.118	42.222	41.606	39.416	39.259	31.387
6 hour	81.60	6.800	25.30	2.108				39.161	34.483	28.261	30.435	23.358	22.535	22.464	22.857	19.565	23.333
24 hour	81.60	6.800	17.40	1.450			346.03	108.03	72.993	52.857	49.64	47.183	41.176	43.262	45.985	49.254	49.254
48 hour	77.00	6.417	16.30	1.358			111.56	48.507	37.857	28.986	22.628	25.735	32.867	17.424	25.362	20.714	---
96 hour	75.30	6.275	16.10	1.342			69.178	41.606	40.441	36.029	29.851	25.185	30.714	30.303	27.941	19.708	---
192 hour	73.40	6.117	15.80	1.317			39.13	20.567	15.827	15	12.676	12.5	14.706	10.884	14.789	24.286	---
360 hour	71.30	5.942	15.70	1.308			47.651	42.143	44.444	29.078	33.333	19.565	25.714	29.371	31.69	---	---

Table H1
Column Settling Data Study

					OL-STA-30053												
Type of Setting:		Zone			13	12	11	10	9	8	7	6	5	4	3	2	1
					TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	84.2	7.017	84.2	7.017													
1 hour	84.2	7.017	28.2	2.350					61.94	60.84	62.32	61.43	75.00	73.91	59.85	53.33	50.00
2 hour	84.2	7.017	22.5	1.875				101.38	46.10	45.26	45.93	42.45	44.12	39.69	40.74	37.96	31.62
4 hour	81.9	6.825	19.6	1.633				39.42	31.06	34.06	36.43	21.74	35.04	32.82	33.58	27.14	31.71
6 hour	80.8	6.733	17.9	1.492				42.55	35.66	35.56	28.89	32.35	26.67	28.89	19.85	19.01	24.11
24 hour	79.4	6.617	14	1.167			81.02	80.85	93.98	81.20	88.15	89.36	67.86	85.40	81.56	50.36	
48 hour	77.9	6.492	13.7	1.142			43.61	44.19	31.06	35.66	31.50	35.71	41.13	38.02	40.00	36.36	
96 hour							12.59	13.77	9.46	9.86	7.97	7.69	9.35	6.47	43.88	5.80	
192 hour	74.9	6.242	13	1.083			115.83	69.59	70.37	68.38	52.14	70.92	69.34	70.37	59.85	53.17	
360 hour	74	6.167	12	1.000			33.33	28.57	33.58	30.99	26.12	25.00	28.68	25.93	26.61		

Table H1
Column Settling Data Study

OL-STA-40061

Type of Setting: Zone

Initial Sample Height (in):

me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	84.25	7.021	84.25														
1 hour	84.24	7.020	15.25				633.93	670.34	712.39	626.40	635.00	582.81	646.96	624.76	673.21	580.00	652.21
2 hour	82.80	6.900	12.00			587.60	434.71	437.29	456.18	448.00	480.91	508.47	605.71	520.18	508.70	472.95	479.34
4 hour						407.07	327.52	344.55	324.55	323.64	301.82	314.41	317.59	302.80	270.64	288.18	286.09
6 hour						271.68	276.15	261.82	263.96	277.67	266.02	267.27	267.27	239.42	244.95	261.76	
24 hour	81.30	6.775	9.00			127.83	100.00	110.17	93.81	128.81	134.51	126.27	112.90	133.33	113.60	138.21	
48 hour						95.68	92.86	81.89	67.80	71.20	91.30	50.00	66.40	57.60	57.94	64.52	
96 hour	75.50	6.292	7.00			75.00	66.67	64.17	62.50	67.50	70.83	66.67	60.00	56.67	44.55	29.63	
192 hour						42.00	42.99	48.15	49.09	30.77	43.81	27.68		31.30	31.36	26.52	
360 hour	70.70	5.892	6.45			0.00	30.00	33.56	30.22	30.00	30.22	32.86	34.31	28.15	28.26		

Table H1
Column Settling Data Study

OL-STA-40062

Type of Setting: Zone

Initial Sample Height (in):

me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	85.90	7.16	85.900	7.16													
1 hour	85.90	7.16	55.400	4.62										414.81	295.45	226.43	180.62
2 hour	85.90	7.16	35.300	2.94						337.32	235.66	194.52	173.10	141.84	133.82	107.97	82.73
4 hour	84.40	7.03	27.600	2.30				142.73	138.41	94.96	95.00	81.20	79.23	70.15	68.15	57.35	44.83
6 hour		0.00		0.00			52.99	63.01	66.21	52.52	59.71	49.18	56.45	49.61	51.56	38.05	37.50
24 hour	83.20	6.93	15.100	1.26		53.57	46.43	47.89	46.31	39.57	33.09	43.38	42.45	40.60	36.03	26.87	25.74
48 hour		0.00		0.00		18.66	12.75	9.52	14.84	13.56	16.98	10.00	13.22	15.97	11.97	10.71	8.89
96 hour		0.00		0.00		8.26	14.29	12.07	5.98	12.93	13.89	11.76	27.36	16.81	27.83	9.32	
192 hour	80.20	6.68	10.000	0.83		6.90	8.89	11.59	10.77	7.69	9.63	9.23	9.23	9.63	7.25	6.67	
360 hour	77.20	6.43	9.320	0.78		14.48	15.33	15.56	15.27	13.08	16.67	12.86	12.41	11.28	10.77	12.69	

Table H1
Column Settling Data Study

OL-STA-40063

Type of Setting: Zone

Initial Sample Height (in):

(elapsed Time (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	84.60	7.050	84.60	7.050													
1 hour	84.60	7.050	25.10	2.092				106.87	119.7	110.85	105.26	102.24	108.89	90.345	115.6	100.79	93.233
2 hour	83.40	6.950	14.75	1.229			63.265	69.286	65.248	64.493	84.672	59.722	59.712	63.043	57.246	50.355	51.825
4 hour	82.00	6.833		0.000		46.457	55.556	39.2	48.855	49.624	36.09	40.367	32.558	30.952	33.077	33.594	39.535
6 hour	82.00	6.833		0.000		44.545	25.758	28.651	25.21	37.879	38.76	24.031	27.344	30	24.194	21.26	19.828
24 hour	77.60	6.467	12.20	1.017			14.667	17.266	20.28	10.87	14.388	12.057	12.857	17.391	8.6331	15.333	
48 hour	76.20	6.350	11.50	0.958		10.563	15.385	6.4748	11.348	9.4203	8.6093	5.6338	7.9137	5.7143	7.8571	6.7669	
96 hour	74.70	6.225	10.60	0.883		13.971	12.308	16	30.952	9.1549	12.097	10.484	14.634	23.239	10.563	16.406	
192 hour	73.25	6.104	9.50	0.792		12.319	13.139	28.03	30.508	8.7302	10.569	5.5118	13.077	18.254	15.2	5.7971	
360 hour	70.70	5.892	6.45	0.538		26.207	24.823	23.571	10.072	10.345	24.638	23.129	20.863	5.0725	7.8571		

Table H1
Column Settling Data Study

OL-STA-60098

Type of Setting: Zone

Initial Sample Height (in):

me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	84.10	7.01															
1 hour	84.10	7.01															
2 hour	83.80	6.98															
4 hour	83.80	6.98															
6 hour	83.60	6.97						No Solid Interface									
24 hour	83.40	6.95															
48 hour	83.20	6.93															
96 hour	83.20	6.93															
192 hour	82.50	6.88															
360 hour	82.00	6.83				28.37	25.17	26.95	32.17	30.37	25.93	29.20	26.28	28.15	25.19	25.19	33.33

Table H1
Column Settling Data Study

OL-STA-60099

Type of Setting:	Zone				13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	83.30	6.942	83.30	6.942													
1 hour	83.30	6.942	73.80	6.150													217.78
2 hour	83.30	6.942	66.76	5.563												112.24	106.00
4 hour	82.60	6.883	55.60	4.633										76.00	72.00	61.00	64.49
6 hour	82.00	6.833	44.80	3.733								68.00	66.00	69.00	49.00	63.00	49.00
24 hour	82.00	6.833	24.50	2.042				76.67	40.00	44.00	47.90	40.00	44.00	41.60	43.20	40.80	34.17
48 hour	80.90	6.742	21.40	1.783			---		30.00	34.62	35.38	33.08	33.08	36.15	36.15	102.50	40.83
96 hour	79.60	6.633	18.50	1.542				25.37	23.58	24.81	22.13	27.42	27.27	33.07	27.87	34.68	27.50
192 hour	78.40	6.533	15.80	1.317			40.71	31.34	33.61	22.39	17.52	16.92	21.37	21.67	28.35	26.67	
360 hour	77.10	6.425	15.00	1.250			29.58	23.61	24.26	27.07	16.30	23.57	29.23	18.52	17.04	26.67	

Table H1
Column Settling Data Study

OL-STA-60100

Type of Setting: Zone

Initial Sample Height (in):

me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**	13 TSS (mg/L) 0.62	12 TSS (mg/L) 1.03	11 TSS (mg/L) 1.53	10 TSS (mg/L) 2.03	9 TSS (mg/L) 2.53	8 TSS (mg/L) 3.03	7 TSS (mg/L) 3.54	6 TSS (mg/L) 4.04	5 TSS (mg/L) 4.54	4 TSS (mg/L) 5.03	3 TSS (mg/L) 5.53	2 TSS (mg/L) 6.1	1 TSS (mg/L) 6.6
0	83.40	6.95	83.40	6.95													
1 hour	83.40	6.95	37.60	3.13					224.00	202.00	192.00	154.00	176.00	169.00	156.00	137.00	128.00
2 hour	82.25	6.85	22.70	1.89				143.00	144.00	140.00	141.00	128.00	131.00	131.00	122.00	112.00	95.65
4 hour		0.00		0.00		102.00	106.00	97.00	95.00	94.00	86.00	83.50	82.00	77.00	75.00	70.87	48.54
6 hour	81.30	6.78	15.48	1.29		76.00	72.00	73.00	71.00	69.00	77.00	74.00	74.76	68.57	66.00	60.82	
24 hour	78.90	6.58	10.00	0.83		25.60	24.00	25.60	24.00	24.62	22.22	25.00	24.60	24.00	19.20	16.94	
48 hour	77.50	6.46	8.00	0.67		16.30	18.71	17.91	15.67	15.71	14.93	16.79	12.78	12.40	15.63	16.15	
96 hour	76.30	6.36	7.00	0.58		20.28	21.54	21.83	19.31	18.44	20.44	20.74	21.21	21.80	21.80	20.45	
192 hour	74.90	6.24	7.00	0.58		16.90	12.69	12.14	7.41	11.26	11.97	12.31	12.69	8.15	13.43	13.14	
360 hour	73.70	6.14	6.50	0.54		7.25	9.42	6.94	8.82	4.29	7.58	4.35	9.42	8.82	6.82		

Table H1
Column Settling Data Study

OL-STA-70048

Type of Setting:	Zone				13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	84.00		84.00														
1 hour	84.00		13.00			180.00	179.00	181.00	184.00	182.00	184.00	186.00	181.00	193.00	178.00	203.64	87.00
2 hour	82.50		12.00			166.00	172.00	171.00	167.00	177.00	174.00	174.00	184.00	169.00	169.00	162.00	149.00
4 hour	81.00		11.10			122.00	126.00	129.00	119.00	69.00	132.00	123.00	125.00	123.00	121.00	113.00	100.00
6 hour						87.00	96.00	94.06	90.00	91.00	90.10	93.81	88.18	83.81	90.29	85.00	
24 hour	79.50		8.00			36.52	35.65	40.87	38.33	45.60	44.96	37.80	43.33	33.88	34.92	33.06	
48 hour	77.00		6.00			33.66	30.00	30.21	30.10	30.21	30.84	29.36	34.38	25.05	29.90	22.34	
96 hour	75.80		5.00			32.50	28.33	26.67	27.50	28.33	27.50	24.17	31.67	26.67	25.60	26.67	
192 hour	74.50		4.00			28.57	27.14	32.80	28.89	28.57	25.19	29.71	28.17	25.95	29.46	30.43	
360 hour	73.20		3.75			15.63	14.81	17.29	14.73	21.21	15.91	13.64	15.15	15.15	21.54		

Table H1
Column Settling Data Study

OL-STA-70049

Type of Setting:	Zone				13 TSS (mg/L)	12 TSS (mg/L)	11 TSS (mg/L)	10 TSS (mg/L)	9 TSS (mg/L)	8 TSS (mg/L)	7 TSS (mg/L)	6 TSS (mg/L)	5 TSS (mg/L)	4 TSS (mg/L)	3 TSS (mg/L)	2 TSS (mg/L)	1 TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	83.60	6.967	83.60	6.967													
1 hour																	
2 hour	83.60	6.967	74.80	6.233													108.00
4 hour	83.50	6.958	68.00	5.667												47.78	65.56
6 hour	83.10	6.925	55.90	4.658										84.00	109.33	108.00	93.33
24 hour	82.60	6.883	32.31	2.693						108.24	116.00	133.33	114.67	85.33	90.00	77.78	61.25
48 hour	82.00	6.833	27.30	2.275					274.00	72.00	69.00	85.00	94.00	73.00	92.00	68.00	49.49
96 hour	82.00	6.833	23.50	1.958				63.54	62.22	50.53	76.09	70.33	83.87	66.67	78.02	66.32	52.63
192 hour								32.35	53.54	59.41	119.61	58.00	51.96	64.00	54.37	42.31	45.00
360 hour	78.90	6.575	18.20	1.517			112.50	72.55	60.22	56.12	49.44	50.62	63.75	54.88	53.93	45.07	

Table H1
Column Settling Data Study

OL-STA-70050

Type of Setting:	Zone				13	12	11	10	9	8	7	6	5	4	3	2	1
					TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)	TSS (mg/L)
Initial Sample Height (in):					0.62	1.03	1.53	2.03	2.53	3.03	3.54	4.04	4.54	5.03	5.53	6.1	6.6
me (hours)	**Water Height (in)**	**Water Height (ft)**	**Solids Interface Height (in)**	**Solids Interface Height (ft)**													
0	84.50	7.042	84.50	7.042													
1 hour	84.50	7.042	83.60	6.967													102.08
2 hour	84.50	7.042	78.40	6.533												142.31	80.38
4 hour	84.30	7.025	64.60	5.383											84.21	63.27	61.11
6 hour	83.75	6.979	61.60	5.133									85.33	94.60	68.00	67.65	62.40
24 hour	82.10	6.842	31.00	2.583					96.67	79.35	74.07	71.03	64.44	57.65	87.78	89.47	84.00
48 hour	81.10	6.758	27.30	2.275					60.00	58.75	75.00	52.50	57.50	62.50	55.56	48.89	50.00
96 hour	80.60	6.717	24.00	2.000				97.00	58.00	69.00	56.00	63.00	79.00	81.00	52.00	66.34	67.71
192 hour	78.90	6.575	20.80	1.733				51.82	55.24	46.00	58.00	52.00	58.00	55.00	57.00	41.00	48.96
360 hour	77.50	6.458	18.60	1.550			55.24	54.29	55.56	55.46	51.89	51.82	57.39	47.06	146.02	58.10	

Table H2
Slurry Properties in Column Studies

Location ID	*In Situ* Water Content (%)	*SMU Average In Situ Water* (%)	*In Situ* Solids Concentration (g/L)	Target Starting Slurry Conc. (g/L)	Calculated Starting Slurry Concentration (g/L)	Atterberg Limits (ASTM D 4318)			Grain Size (ASTM D 422)					Specific Gravity (ASTM D 854)
						Liquid Limit	Plastic Limit	Plasticity Index	Percent Gravel (%)	Percent Sand (%)	Percent Fines (clay & silt) (%)	Clay-sized Particle Content (0.005 mm) (%)	Clay-sized Particle Content (0.002 mm) (%)	
OL-STA-10031	163.2	129.39	492.2	110	96	82	57	25	0	5.3	94.7	40	18	2.4
OL-STA-10114	138.3	129.39	588.3	110	112	60	38	22	0	1.7	98.3	35	16	2.56
OL-STA-10115	161.6	129.39	592.9	110	114	74	49	25	0	20.7	79.3	30	15	2.58
OL-STA-10116	141.9	129.39	549.8	110	110	64	45	19	0	1.6	98.4	30	15	2.6
OL-STA-10117	146.7	129.39	535.6	110	117	65	49	16	0	2.5	97.5	23	9	2.57
OL-STA-10118	138.3	129.39	560.9	110	103	71	48	23	0	1.3	98.7	27	10	2.37
OL-STA-10119	161.6	129.39	496	110	106	72	50	22	0	9.1	90.9	32	15	2.6
OL-STA-30053	332.3	159.01	268.6	110	64	141	95	46	0	0.4	99.6	43	19	2.6
OL-STA-40061	88.1	91.35	780.5	110	110	50	32	18	0	2.3	97.7	46	26	2.65
OL-STA-40062	105.4	91.35	687.7	110	110	51	39	12	0	0.4	99.6	28	12	2.56
OL-STA-40063	91.9	91.35	757.9	110	110	56	35	21	0	8.6	91.4	39	21	2.64
OL-STA-60098	87.34	84.65	785.3	110	110	52	33	19	0	4.4	65.6	12	9	2.49
OL-STA-60099	141.5	84.65	550.9	110	110	62	40	22	0	1.9	98.1	23	12	2.6
OL-STA-60100	83.99	84.65	806.5	110	75.9	80	47	33	0	0.8	99.2	15	10	2.52
OL-STA-70048	79.83	100.13	834.5	110	57.4	63	41	22	0	1	99	34	16	2.6
OL-STA-70049	188.5	100.13	437.7	110	110	71	40	31	0	3.6	96.4	12	9	2.4
OL-STA-70050	186.8	100.13	440.9	110	110	81	44	37	0	1.9	98.1	11	9	2.31

= Data is not available - values were calculated based on the AVERAGE of the Phase II Locations for that SMU