

SPECIFICATIONS AND PROPOSALS
FOR
CONSTRUCTION
OF
LEACHATE CONTAINMENT AND
COLLECTION SYSTEM AT
SANITARY LANDFILL IA
IN
KEARNY, NEW JERSEY

HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION
LYNDHURST, NEW JERSEY

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ISSUED JANUARY 4, 1984

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APPENDIX A

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. /	
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>14.5</i>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	-	-	
<i>8-15-83</i>	<i>2:30</i>	<i>10'6"</i>	-	DIA.	<i>Casing</i>	<i>2"</i>	-	-	
<i>on completion</i>				WT.	<i>to</i>	<i>140#</i>	-	-	
				FALL	<i>22'</i>	<i>30"</i>	-	-	
							DRILLER <i>V. AIMAR</i>		
							CC REP. <i>RSW</i>		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	8	█	FILL - Misc. debris - wood, bricks, trash, little sand, silt.	R 8"
			12			
			12			
2			11			
3						
4						
5						
6		S-2	15	█	FILL - Misc. debris, wood	Sampler bouncing from 12" to 18" R-4"
			11			
			58			
7			5			
8						
9						
10						
11		S-3	7	█	FILL - Misc. debris, wood, asphalt	R 6" Bentonite mud slurry being lost in drilling
			8			
			3			
12			6			
13						
14						
15						
16		S-4	3	█	FILL - Misc. debris, leaves, glass, etc.	R 9"
			2			
			4			
17			4			
18						
19						
20						
21		S-5	1	█	Decomposed organic matter, brown (PT) ^{18"} [-4.0']	R 10"
			2			
			3			
22			3			
23						
					Silty clay, some med.-fine sand; firm, light gray (CL) ^{21'6"} [-7.0']	Casing driven to 22' after drilling to that depth

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. /	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24					----- $\frac{23'6''}{[-9.0']}$ -----	
25		S-6	9	█	Silty sand, fine, brown-gray (SM)	R 18"
26			8			
27			10			
28			7			
29						
30		S-7	5	█	Silty sand, fine, brown-gray (SM)	R 22"
31			7			
32			9			
33			9			
34						
35		S-8	6	█	Sand, med. to fine, trace coarse sand, trace silt, brown (SP); last 6" few thin silt layers	R 24"
36			7			
37			11			
38					----- $\frac{38'0''}{[-13.5']}$ -----	
39						
40		S-9	5	█	Silt, clayey silt, and silty clay, gray and red-brown, stiff to very stiff thinly layered varved structure (CL)	R 24"
41			6			
42			9			
43			9			
44						
45		S-10	9	█	Clayey silt and silty clay, gray, very stiff; traces of mottling with red-brown (CL)	R 23"
46			10			
47			12			
48			13			
49						

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 1	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	4		<i>silty, clayey silt, clay, and silty clay, occasional thin layers fine sand, thinly layered varved structure, gray very stiff. (CL)</i> <i>52'0"</i>	R 23"
51			6			
52			6			
52			7			
53					<i>End of boring</i> [-37.5']	
54						
55						
56					*Water level taken on drilling mud in hole at completion. Approximately equal to water level in swale alongside.	
57						
58						
59						
60					Note: Hole filled with bentonite to slurry up to level of pervious fill.	
61						
62						
63						
64					<i>Victor Aimar - Driller</i> <i>Anthony Kurzynowski - Helper</i>	
65						
66						
67						
68						
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72						
73						
74						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS' REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 2	
PROJECT <u>MSLA-1A LANDFILL</u>							SHT. NO. 1 OF 3		
CLIENT <u>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</u>							PROJ. NO. <u>83-07194-01</u>		
BORING CONTRACTOR <u>WARREN GEORGE INC</u>							ELEVATION <u>10.7</u>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<u>Hud</u>	<u>SBS</u>	<u>—</u>	<u>OST</u>	
<u>Hole blocked by fill</u>				DIA.	<u>Casing</u>	<u>2"</u>	<u>—</u>	<u>3.0"</u>	
				WT.	<u>to</u>	<u>140#</u>	<u>—</u>		
				FALL	<u>20'</u>	<u>30"</u>	<u>—</u>		
							DRILLER <u>V. AIMAR</u>		
							CC REP. <u>RSW</u>		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS	
1		S-1	6	█	FILL - Misc. debris and soil; wood, metal, brick, sand, etc.	R 8"	
			8				
			14				
2			9				
3							
4							
5			3		FILL - Misc. debris, wood paper, leaves, sand and silt, etc.	R 10"	
6		S-2	4				
7			7				
8			6				
9							
10			4		FILL - Wood, bricks, etc.	No recovery. Redrove to 13' 1" recovery. Sampler bouncing	
11		S-3-L	4				
12			4				
13			4				
14		S-3	10				
			25				
15						14'6"	
						[-3.8']	
16		S-4-L	2			No recovery Redrove	
17			2				
			3				
18		S-4	1		Peat; decomposed organic matter, occasional fibers, brown, soft (PT)	Drilled ahead set casing to 20'	
			2				
			3				
19					19'0"		
20					[-8.3']		
21							
22		S-5	10		Sand, med. to fine, trace to little silt, gray (SP)	R 19"	
			11				
			15				
23			16				

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 2	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25			9		<i>Sand, med. to fine, trace to little silt, gray (SP) changing to silty sand, fine gray (SM).</i>	R 21"
26		S-6	11			
27			15			
28			16			
29						
30			6		30'6"	
31		S-7	17		<i>Silty clay, very stiff, gray, occasional layers clayey sand (CL);</i>	R 22"
32			16			
33			9		[21.22]	
34		U/D			<i>Silt, clayey silt, silty clay, and clay thinly layered varved structure, gray and brown, stiff to very stiff.</i>	R 24"
35		8				
36		S-8	6		ditto	R 24"
37			7			
38			12			
39			14			
40						
41		S-9	5		ditto, stiff	R 24"
42			6			
43			7			
44			8			
45						
46		S-10	1		ditto, firm to stiff	R 24"
47			2			
48			4			
49			5			

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 2	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	3	█	ditto	R23"
51			4			
52			5			
			6			
52					52'0"	
53					End of boring	
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry up to level of pervious fill

Victor Aimar - Driller
Anthony Kurzynowski - Helper

52'0"
[-41.3]

Converse Consultants, Inc.					TEST BORING LOG				BORING NO. 3	
PROJECT <i>MSLA-1A LANDFILL</i>								SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>								PROJ. NO. 83-07194-01		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>								ELEVATION 10.7		
GROUND WATER					CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS</i>	-	-	DATE START <i>8-16-83</i>	
<i>8-17-83</i>	<i>1015</i>	<i>7'6"</i>	-	DIA.	<i>Casing</i>	<i>2"</i>	-	-	DATE FINISH <i>8-17-83</i>	
<i>on completion</i>					WT.	<i>to 140#</i>	-	-	DRILLER <i>W. LAZROE</i>	
					FALL	<i>20'</i>	<i>30"</i>	-	CC REP. <i>RSW</i>	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS.
1		S-1	5		<i>FILL- Misc. debris- wood, brick, soil (silty sand) etc.</i>	<i>R 8"</i>
			9			
			11			
2						
3						
4						
5		S-2	8		<i>FILL- Misc. debris- wood, cinders. sand, brick, etc.</i>	<i>R 7"</i> <i>Losing mud while drilling</i>
6			9			
7			21			
			13			
8						
9						
10		S-3	3		<i>FILL- Misc. debris- wood, metal, paper, etc.</i>	<i>R 6"</i>
11			2			
12			3			
			6			
13						
14						
15					<i>14'0"</i> <i>[-3.3]</i>	
16		S-4	2		<i>Decomposed organic matter (Pt)</i>	<i>No recovery piece of metal caught in tip of sampling spoon.</i>
17			2			
			1			
18						
19					<i>18'0"</i> <i>[-7.3]</i>	<i>Casing to 20'</i>
20						
21		S-5	7		<i>Sand, gray, ranging from medium, trace silt, to silty medium to fine sand, to silt; in layers (SM)</i>	<i>R 21"</i>
22			9			
			9			
23			8			

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 3	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	5		Sand, med. to fine, gray (SP) (6")	.25'6" R 18"
26			6		Clayey sand, fine, gray, stiff (SC)	[-14.8']
26			25			
27			27			
28						28'0" [-17.3']
29						
30		S-7	7		Silt, clayey silt and silty clay, thin layered varved structure gray, very stiff (CL)	R 21"
31			10			
31			13			
32			18			
33						
34						
35		S-8	8		Silty clay, gray, stiff to very stiff (CL)	R 24"
36			11			
36			12			
37			19			
38						
39						
40		S-9	3		Silt, clayey silt, silty clay and clay, thinly layered varved structure stiff, gray & red-brown (CL)	R 24"
41			5			
41			7			
42			6			
43						
44						
45			2		ditto	R 24"
46		S-10	3			
46			4			
47			5			
48						
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 3	
PROJECT <i>MSLA-1A LANDFILL</i>				SHT. NO. 3 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>				PROJ. NO. <i>83-07194-01</i>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	2	█	<i>ditto, thicker layers</i>	<i>R 24"</i>
51			4			
52			5			
52			7			
53					<i>End of boring</i>	<i>52'0"</i> <i>[-41.3']</i>
54						
55						
56						
57						
58						
59						
60						
61						
62						
63					<i>Hole filled with bentonite slurry to level of previous fill</i>	
64						
65						
66					<i>William Lazroe - Driller</i>	
66					<i>Robert Verpent - Helper</i>	
67						
68						
69						
70						
71						
72						
73						
74						

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 4	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 9.9		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Hud	SBS	—	OST	
8-18-83	10:45	6'0"	—	DIA.		2"	—	3.0"	
				WT.		140#	—		
				FALL		30"	—		
							DRILLER V. AIMAR		
							CC REP. RSW		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	12	█	FILL - Misc. debris and soil: wood bricks, rubber, etc.	R 2"
			12			
2			8			
			8			
3						
4						
5		S-2	5	█	FILL - Misc. debris - rock, wood, plaster, etc.	R 5" Losing drilling mud
6			3			
7			39 50 1/2"			
8						
9						
10		S-3	100/5"	█	FILL - Misc. debris - wood, stone, etc.	R 4"
11						
12						
13						
14					13' 6" [-3.6']	
15		S-4		█	Decomposed organic matter (Pt) 15' 6" Sand, silt, silty clay, in layers, gray to green, slightly organic (SM) 16' 9" Silty sand, fine, gray (SM)	R 22" [-5.6'] Ostenberg sampler
16	U/D	PRES				
17						
18						
19						
20						
21		S-5	2	█	Sand, medium to fine (mostly), trace to little silt, gray (SP)	R 22"
			4			
22			13			
			16			
23						

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 4		
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24					----- 24'0" ----- [-14.1']	
25		S-6	7		Clayey silt and silty clay 1/4" ± layers, stiff to very stiff (CL)	R 23"
26			8			
27			12			
28			12			
29		S-7 U/D	PRESS		Silt, clayey silt, silty clay and clay thinly layered varved structure, gray & red-brown, stiff (CL)	R 22"
30						
31		S-7	7		ditto	R 24"
32			8			
33			12			
34			15			
35						
36		S-8	8		ditto	R 23"
37			10			
38			12			
39			13			
40						
41		S-9	1		ditto	R 23"
42			3			
43			6			
44			7			
45						
46		S-10	2		ditto, firm to stiff	R 24"
47			4			
48			4			
49			5			

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.	TEST BORING LOG	BORING NO. 4
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PROJECT MSLA-1A LANDFILL	SHT. NO. 3 OF 3
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION	PROJ. NO. 83-07194-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11			ditto, soft to firm	22"
51			WR			
			WR			
			2			
52			3		52'0"	
53					End of boring	[42.1']
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry
up to level of previous fill

Victor Aimar - Driller
Anthony Kurzynowski - Helper

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 5	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 4		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 12.7		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MOD	SBS	—	—	
8-18-83	9:15	8'6"	—	DIA.		2"	—	DATE START 8-17-83	
	ON	Completion		WT.		140#	—	DATE FINISH 8-17-83	
				FALL		30"	—	DRILLER W. LAZARDE	
								CC REP. RSW	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	8	█	FILL - Misc. debris - soil (silty sand), bricks, wood, etc.	R 7"
			16			
			14			
2			19			
3						
4						
5		S-2	12	█	FILL - Misc. debris - wood, brick, etc.	R 8"
6			4			
			6			
7			10			
8						
9						
10		S-3	13	█	FILL - Misc. debris - wood, brick, soil, etc.	R 4"
11			9			
			6			
12			6			
13						
14						
15		S-4	4	█	FILL - Misc. debris - wood, soil, etc.	R 4"
16			6			
			7			
17			"			
18						
19						
20					19'0"	
					[-6.3']	
21		S-5	4	█	Silty sand, fine, gray (S.M)	R 12"
			11			
			14			
22			13			
23						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 5	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 4	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	9	█	Sand, medium to fine, trace silt (SP)	R 14"
26			10			
27			11			
28			13			
28					----- 28'6" [-15.8]	
29						
30		S-7	5	█	Silt, clayey silt, silty clay and clay, thinly layered varved structure, gray & red-brown, stiff (CL)	R 18"
31			8			
32			9			
33			11			
34						
35		S-8	6	█	ditto	R 20"
36			7			
37			11			
38			15			
39						
40		S-9	4	█	ditto	R 20"
41			5			
42			7			
43			11			
44						
45		S-10	5	█	ditto	R 23"
46			6			
47			8			
47			10			
48						
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 5	
PROJECT MSLA-1A LANDFILL				SHT. NO. 3 OF 4		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	WOH	█	Silty clay, clayey silt, and clay, typically 1/4" layers, varved structure, soft, gray and red-brown (CL)	R 18"
51			WOH			
52			/			
53						
54						
55		S-12	/	█	ditto	R 20"
56			/			
57			/			
58						
59						
60		S-13	WR	█	ditto, thicker layers, very soft	R 24"
61			↓			
62						
63						
64						
65		S-14	WR	█	ditto	R 24"
66			↓			
67						
68						
69						
70		S-15	WR	█	ditto	R 24"
71			↓			
72						
73						
74						
					74'0"	
					[61.3"]	

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 5		
PROJECT				MSLA-1A LANDFILL		SHT. NO. 4 OF 4	
CLIENT				HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION		PROJ. NO. B3-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS	
75		S-16	15	■	Broken shale, somewhat weathered red-brown	R 11"	
76			22				
77			12				
78			12				
79							
80		S-17	100/3"		Shale, red-brown; broken by sampling	R 3"	
81					End of boring	80'3" [-67.55']	
82							
83							
84							
85							
					Boring filled with bentonite slurry to level of previous fill.		
					William Lazroe - Driller Robert Verpent - Helper		

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 6	
PROJECT <u>MSLA-1A LANDFILL</u>							SHT. NO. 1 OF		
CLIENT <u>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</u>							PROJ. NO. <u>83-07194-01</u>		
BORING CONTRACTOR <u>WARREN GEORGE INC</u>							ELEVATION <u>11.7</u>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	BST	
8-18-83	9:15	8'2"	—	DIA.	Casing	2"	—	3"	
on completion				WT.	to	140#	—		
				FALL	20'	30"	—		
							DRILLER <u>V. AIMAR</u>		
							CC REP. <u>RSW</u>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION			REMARKS	
1		S-1	3	█	FILL- Misc. debris - wood, brick, soil, etc.			R 8"	
			4						
			5						
			9						
2									
3									
4									
5		S-2	3	█	FILL- Misc. debris - wood, etc.			R 3"	
			2						
			2						
			6						
6									
7									
8									
9									
10		S-3	4	█	FILL			No recovery on two attempts	
			4						
			2						
			2						
11									
12									
13									
14									
15		S-4	4	█	Decomposed organic matter (PT) soft			R 7"	
			1						
			2						
			2						
16									
17									
18									
19									
20									
21		S-5	10	█	Silty fine sand, gray (SM)			Drilled ahead installed casing to 20'	
			10						
			11						
22									
23									

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 6	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	9	█	Sand, med. to fine, trace silt, gray (SP)	R 18"
26			12			
27			17			
28			20			
29					28'6" [-16.8"]	
30		S-7	7	█	Silty clay and clayey silt, thinly layered varved structure, gray and red-brown, stiff (CL)	R 23" Attempted U/D too hard to push tube.
31			10			
32			14			
33			14			
34		S-8 U/D	PUSH		ditto	R 22"
35		S-8	4	█	ditto	R 23"
36			12			
37			19			
38			21			
39						
40		S-9	6	█	ditto, slightly more plastic	R 24"
41			7			
42			11			
43			11			
44						
45		S-10	4	█	- grading to - Silt, clayey silt, silty clay and clay, thinly layered varved structure, gray and red-brown, stiff	R 24"
46			6			
47			8			
48			9			
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 6	
PROJECT MSLA-1A LANDFILL				SHT. NO. 3 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	GASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	3	█	ditto	R23"
51			4			
52			7			
52			8			
53					End of boring	52'0" [-40.3']
54						
55						
56						
57						
58						
59						
60					Hole filled with bentonite slurry to level of pervious fill.	
61						
62						
63						
64						
65					Victor Aimar - Driller	
66					Anthony Kurzynowski - Helper	
67						
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Converse Consultants, Inc.				TEST BORING LOG				BORING NO. <u>7</u>	
PROJECT <u>MSLA-1A LANDFILL</u>							SHT. NO. 1 OF 3		
CLIENT <u>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</u>							PROJ. NO. <u>83-07194-01</u>		
BORING CONTRACTOR <u>WARREN GEORGE INC.</u>							ELEVATION <u>14.0</u>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	—	
<u>8-19-83</u>	<u>11:15</u>	<u>surface</u>	—	DIA.	<u>Casing</u>	<u>2"</u>	—	DATE START <u>8-18-83</u>	
		<u>on completion</u>		WT.	<u>to</u>	<u>140#</u>	—	DATE FINISH <u>8-19-83</u>	
				FALL	<u>20'</u>	<u>30"</u>	—	DRILLER <u>W. LAZROE</u>	
								CC REP. <u>RSW</u>	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1			FILL- Misc. debris, soil, etc. (Sand, coarse to fine, little silt little gravel, red-brown)	R 3"
2						
3						
4						
5						
6		S-2	6		FILL- Misc. debris, wood, etc.	R 8"
7			6			
8			13			
9			16			
10						
11		S-3	6		FILL- Misc. debris, stone, etc.	R 3"
12			5			
13			2			
14			3			
15						
16		S-4	21		FILL- Misc. debris, paper, etc.	R 4"
17			18			
18			9			
19			7			
20					----- 18' 6" [-4.5']	
21		S-5	4		Silty sand, fine, gray, stiff (SM)	R 9"
22			4			
23			5			
			7			

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 7	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 2 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		<i>S-6</i>	<i>8</i>	■	<i>Silty sand, fine, gray; portions with less than 5% silt (SM)</i>	<i>R 21"</i>
26			<i>11</i>			
27			<i>10</i>			
28			<i>12</i>			
29						
30		<i>S-7</i>	<i>13</i>	■	<i>Sand, gray med. to fine, trace silt (SP)</i>	<i>R 13"</i>
31			<i>15</i>			
32			<i>17</i>			
33			<i>24</i>			
34					<i>33'6"</i>	
35					<i>[-19.5']</i>	
36		<i>S-8</i>	<i>8</i>	■	<i>Clayey silt and silty clay, gray and red brown, stiff, Thinly layered varved structure. (CL)</i>	<i>R 20"</i>
37			<i>11</i>			
38			<i>13</i>			
39			<i>16</i>			
40						
41		<i>S-9</i>	<i>5</i>	■	<i>ditto</i>	<i>R 16"</i>
42			<i>11</i>			
43			<i>13</i>			
44			<i>16</i>			
45						
46		<i>S-10</i>	<i>3</i>	■	<i>grading to: Silt, clayey silt, silty clay and clay, Thinly layered varved structure, gray & red-brown, stiff (CL)</i>	<i>R 23"</i>
47			<i>3</i>			
48			<i>4</i>			
49			<i>5</i>			

Converse Consultants, Inc.	TEST BORING LOG	BORING NO. 7
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PROJECT <i>MSLA-1A LANDFILL</i>	SHT. NO. 3 OF 3
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>	PROJ. NO. <i>83-07194-01</i>

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	2	█	ditto	224"
51			3			
52			4			
52			6			
53					End of boring	52'0" [-38.0']
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
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72						
73						
74						

Hole filled with bentonite slurry to level of previous fill

William Lazroe - Driller
Robert Verpent - Helper

Boring filled with bentonite slurry to level pervious fill

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 8	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 6.5		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Mud	SBS	—	Ost	
Hole filled on completion				DIA.	Casing	2"	—	3.0"	
				WT.	to	140#	—		
				FALL	20'	30"	—		
							DATE START 8-19-83		
							DATE FINISH 8-19-83		
							DRILLER V. AIMAR		
							CC REP. RSW		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	6		FILL- Misc. debris, soil, - bricks, wood, ash, etc.	R 8"
			4			
			8			
2			4			
3						
4						
5						
6		S-2	9		FILL- Misc. debris, wood etc	R 2"
			10			
7			7			
			10			
8						
9						
10						
11		S-3	2		FILL- Misc. debris, wood, etc. mixed with organics.	R 6"
			2			
			3			
12			3			
13					Decomposed organic matter (Pt)	
14					11'6" [-5.0']	
15					14'0" [-7.5']	
16		S-4	12		Sand, fine, gray, trace silt (SP)	R 14"
			14			
			17			
17			17			
18						
19						
20						
21		S-5	10		Sand, fine, gray, trace to little silt (SP-SM)	R 18"
			11			
			14			
22			15			
23						

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 8		
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	10	█	Silty sand, fine, gray (SM) occasional layers silt	R 21"
26			10			
27			13			
28			12			
29					28'6" [-22.0']	
30		S-7	5	█	Silty clay and clayey silt, gray & red brown, thinly layered varved structure, stiff (CL)	R 23"
31			7			
32			11			
33		S-8 U/D		█	ditto, very stiff	R 24"
34			PUSH			
35		S-8	7	█	ditto.	R 22"
36			8			
37			13			
38			17			
39						
40		S-9	4	█	Clayey silt, silty clay, and clay, gray and red brown, thinly layered varved structure, firm to stiff (CL)	R 23"
41			4			
42			7			
43			8			
44						
45		S-10	4	█	Ditto, with occasional silt seams	R 22"
46			3			
47			5			
48			5			
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 8	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		<i>S-11</i>	1	█	<i>ditto</i>	<i>R 24"</i>
51			2			
52			3			
53					<i>52'0"</i> <i>End of boring</i>	<i>[-45.5']</i>
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
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69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry to level of pervious fill

*Victor Aimar - Driller
Anthony Kurzynowski - Helper*

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 9	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 11.3		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Mud	SBS	—	—	
Hole blocked by debris.				DIA.	2"	—	—	DATE START 8-18-83	
8-22-83	9:15	below 8'	WT.	—	140#	—	—	DATE FINISH 8-18-83	
				FALL	30"	—	—	DRILLER V. AIMAR	
								CC REP. RSW	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	2		FILL - Misc. debris - wood, brick, soil, etc.	R 4"
			2			
			3			
2			10			
3						
4						
5			2		FILL - Misc. debris - wood, brick, cinders, paper, etc.	R 4"
6		S-2	6			
			9			
7			4			
8						
9						
10			42		FILL - Misc. debris - wood, etc	R 2"
11		S-3	12			
			21			
12			13			
13						
14					----- 14' 0"	
15					[-2.7']	
16			16		Wood and organic soil - probable original surface stratum (Pt)	R 12"
16		S-4	25			
			24			
17			16			
18						
19					----- 18' 0"	
20					[-6.7']	
21			5		Silty sand, fine, gray (SM)	R 11"
21		S-5	9			
			20			
22			19			
23						
					----- 23' 0"	

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 9	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	5	█	Silty clay and clayey silt, thin irregular layers, stiff, gray & red-brown (CL)	R 23"
26			9			
27			13			
28			13			
29						
30		S-7	8	█	Ditto, thinly varved structure	R 21"
31			13			
32			18			
33			15			
34						
35		S-8	8	█	ditto.	R 22"
36			10			
37			15			
38			17			
39						
40		S-9	4	█	ditto, a little more plastic	R 20"
41			4			
42			8			
43			9			
44						
45		S-10	3	█	Silt, clayey silt, silty clay and clay, thinly layered varved structure, gray & red-brown, stiff	R 24"
46			5			
47			5			
48			6			
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 9	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	3	█	ditto	R 22"
51			4			
52			5			
53			6			
54						
55						
56					End of boring	52'0" [-40.7']
57						
58						
59						
60					Hole filled with bentonite slurry to level of previous fill.	
61						
62						
63						
64						
65					Victor Aimar - Driller	
66					Anthony Kurzynowski - Helper	
67						
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72						
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74						

Converse Consultants, Inc.					TEST BORING LOG				BORING NO. 10	
PROJECT <i>MSLA-1A LANDFILL</i>								SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>								PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>								ELEVATION <i>9.3</i>		
GROUND WATER					CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS</i>	<i>—</i>	<i>OST</i>	DATE START <i>8-22-83</i>	
<i>8-22-83</i>	<i>2:15</i>	<i>7'6"</i>	<i>—</i>	<i>DIA.</i>		<i>2"</i>	<i>—</i>	<i>3.0*</i>	DATE FINISH <i>8-22-83</i>	
<i>8-23-83</i>	<i>9:00</i>	<i>7'6"</i>	<i>—</i>	<i>WT.</i>		<i>140#</i>	<i>—</i>		DRILLER <i>V. AIMAR</i>	
				<i>FALL</i>		<i>30"</i>	<i>—</i>		CC REP. <i>RSW</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS	
1		<i>S-1</i>	<i>5</i>	█	<i>FILL- Misc. debris, soil (silty sand), etc.</i>				<i>R 8"</i>	
			<i>4</i>							
			<i>11</i>							
			<i>14</i>							
2										
3										
4										
5		<i>S-2</i>	<i>6</i>	█	<i>FILL- Misc. debris, wood, plastic, paper, etc.</i>				<i>R 4"</i>	
			<i>8</i>							
			<i>6</i>							
			<i>3</i>							
6										
7										
8										
9										
10		<i>S-3</i>	<i>13</i>	█	<i>ditto</i>				<i>R 5"</i>	
			<i>7</i>							
			<i>8</i>							
			<i>2</i>							
11										
12										
13										
14										
15		<i>S-4</i>	<i>5</i>	█	<i>FILL- Misc. debris, some clayey sand, gray, soft</i>				<i>R 4"</i>	
			<i>9</i>							
			<i>8</i>							
			<i>7</i>							
16										
17										
18										
19										
20		<i>S-5</i>	<i>9</i>	█	<i>ditto:</i>				<i>R 2"</i>	
			<i>5</i>							
			<i>3</i>							
			<i>3</i>							
21										
22										
23										

23'0" [-13.7']

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 10		
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	6		Sand, fine, gray, trace - little silt (SP-sm)	R 17"
26			5			
27			8			
28			11			
29						
30		S-7	17		Sand, fine, gray, trace silt (SP)	R 18"
31			18			
32			18			
33			19			
34					33'0"	
35					<u>-23.7</u>	
36		S-8	9		Clayey silt and silty clay, stiff, gray & red-brown, thinly layered varved structure	R 22"
37			10			
38			13			
39			12			
40		S-9				R 23"
41		U/D	PUSH			
42		S-9	3		Silt, clayey silt, silty clay and clay, stiff, gray and brown, thinly layered varved structure	R 24"
43			5			
44			7			
45			10			
46		S-10	5		ditto	R 23"
47			6			
48			7			
49			8			

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 10	
PROJECT <i>MSLA-1A LANDFILL</i>				SHT. NO. 3 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>				PROJ. NO. <i>83-07194-01</i>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		<i>S-11</i>	<i>5</i>	█	<i>ditto</i>	<i>R 24"</i>
51			<i>4</i>			
52			<i>6</i>			
			<i>7</i>			
52					<i>52'0"</i> <i>[-42.7]</i>	
53					<i>End of boring</i>	
54						
55						
56						
57						
58						
59						
60					<i>Hole filled with bentonite slurry to level of pervious fill</i>	
61						
62						
63						
64						
65					<i>Victor Aimar - Driller</i>	
66					<i>Anthony Kurzynowski - Helper</i>	
67						
68						
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71						
72						
73						
74						

Converse Consultants, Inc.			TEST BORING LOG					BORING NO. 11	
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>9.8</i>		
GROUND WATER			CAS.	SAMP.	CORE	TUBE	DATUM		
DATE	TIME	DEPTH	CASING	TYPE	DIA.	WT.	FALL		
<i>8-23-83</i>	<i>9:00</i>	<i>7'8"</i>	—	<i>Mud</i>	<i>2"</i>	<i>140#</i>	—	DATE START <i>8-22-83</i>	
<i>9-14-83</i>	<i>11:30</i>	<i>6'7"</i>	—	<i>Casing</i>	<i>2"</i>	—	—	DATE FINISH <i>8-22-83</i>	
								DRILLER <i>V. AIMAR</i>	
								CC REP. <i>RSW</i>	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	1		<i>FILL - Misc. debris - brick, wood, soil, cinders, metal, etc.</i>	<i>R 10"</i>
			3			
			3			
			4			
2						
3						
4						
5		S-2	10		<i>FILL - Misc. debris - cloth, wood, paper, etc.</i>	<i>R 6"</i>
			3			
			5			
			6			
6						
7						
8						
9						
10		S-3	4		<i>FILL - Misc. debris</i>	<i>R 1"</i>
			5			
			3			
11						
12						
13						
14						
15		S-4	8		<i>FILL - Misc. debris</i>	<i>R 1"</i>
			1			
			4			
16						
17						
18						
19						
20						
21		S-5	6		<i>Clayey silt, some zones with little fine sand, gray, stiff (ML)</i>	<i>R 12"</i> <i>Casing to 22'</i> <i>to reduce mud loss.</i>
			5			
			8			
22			10			
23						

18'6"
[-8.7]

Converse Consultants, Inc.	TEST BORING LOG	BORING NO. //
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PROJECT MSLA-1A LANDFILL	SHT. NO. 2 OF 3
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION	PROJ. NO. 83-07194-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24					24' 0"	
					[-14.2']	
25		S-6	5		Silty clay and clayey silt, red-brown & gray, thinly layered varved structure, stiff (CL)	R 22"
26			5			
27			5			
28			5			
29						
30		S-7	5		Silt and clayey silt, thinly layered structure, with occasional layers silty clay, red-brown and gray, stiff (ML-CL)	R 24"
31			5			
32			6 8			
33						
34						
35		S-8	4		Silty clay and clayey silt, red-brown & gray, thinly layered varved structure, stiff (CL)	R 23"
36			5			
37			8 7			
38						
39						
40		S-9	3		ditto, increasing plasticity	R 22"
41			5			
42			5			
43			7			
44						
45		S-10	2		Silt, clayey silt, silty clay and clay, gray and red-brown, thinly layered structure, stiff	R 22"
46			2			
47			3			
48			4			
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 11	
PROJECT MSLA-1A LANDFILL				SHT. NO. 3 OF		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	WR	↓	Silty clay, clay, and clayey silt, gray, varved structure, soft to firm (CL-CH)	224"
51						52'0"
52						End of boring [-42.2']
53						
54						
55						
56						
57						
58						
59						
60					Hole filled with bentonite slurry to level of previous fill	
61						
62						
63						
64						
65					Victor Aimar - Driller	
66					Anthony Kurzynowski - Helper	
67						
68						
69						
70						
71						
72						
73						
74						

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 12				
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3					
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>					
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>8.0</i>					
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM				
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS</i>	<i>-</i>	<i>0st</i>	DATE START <i>8-23-83</i>			
<i>8-23-83</i>	<i>1:00</i>	<i>7'0"</i>	<i>-</i>	DIA.	<i>Casing</i>	<i>2"</i>	<i>-</i>	<i>3.0"</i>	DATE FINISH <i>8-23-83</i>			
		<i>On Completion</i>		WT.	<i>to 20'</i>	<i>140#</i>	<i>-</i>	<i>-</i>	DRILLER <i>V. Aimar</i>			
<i>8-24-83</i>	<i>8:10</i>	<i>Mud 5'6"</i>		FALL		<i>30"</i>	<i>-</i>	<i>-</i>	CC REP. <i>R.S.W</i>			
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS			
1		S-1	1	█	<i>FILL - Misc debris - soil, paper, plastic, etc.</i>				<i>R 7"</i>			
			3									
			7									
2			7									
3												
4												
5		S-2	3	█	<i>FILL - Misc. debris - wood, cinders, cloth, etc.</i>				<i>R 5"</i>			
6			1									
			2									
7			7									
8												
9												
10		S-3	4	█	<i>FILL - Misc. debris - cloth, etc.</i>				<i>R 1"</i>			
11			5									
			6									
12			6									
13												
14												
15		S-4	6	█	<i>FILL - Misc. debris - paper, wood, etc. (Possible organic soil)</i>				<i>R 1"</i>			
16			3									
			10									
17			3									
18												
19												
20		S-5		█	<i>Sand, medium to mostly fine, red-brown, trace silt (SP)</i>				<i>R 6"</i> <i>set 20' casing</i>			
21			4									
			7									
22			11									
23			11									

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 12	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF	
CLIENT HAKKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	5	█	Clayey silt and silty clay, gray and red-brown, thinly layered varved structure, stiff	R 23"
26			7			
27			7			
28			8			
29		S-7 U/D	Press	█	ditto, very stiff	R 23"
30						
31		S-7	5	█	ditto, with silt seams, stiff	R 23"
32			6			
33			10			
34			11			
35		S-8	3	█	ditto	R 22"
36			5			
37			6			
38			6			
39						
40		S-9	3	█	ditto	R 23"
41			5			
42			5			
43			5			
44						
45		S-10	2	█	ditto, with clay seams, firm to stiff	R 24"
46			1			
47			2			
48			2			
49						

24'
[-16.0']

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 12	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		5-11	WR		<i>Clayey silt, silty clay, and clay, gray & red-brown, varved structure, soft</i>	R 24"
51			↓			
52			2			
53					<i>END of Boring</i>	
54					<i>Victor Aimar - Driller</i>	
55					<i>Anthony Kurzynowski - Helper</i>	
56					<i>Boring filled with bentonite slurry</i>	
57					<i>to level of pervious fill</i>	
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 13	
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>7.7</i>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS.</i>	—	—	
<i>8-24-83</i>	<i>8:05</i>	<i>6'9"</i>	—	DIA.	<i>Casing</i>	<i>2"</i>	—	—	
				WT.	<i>to</i>	<i>140#</i>	—	—	
				FALL	<i>17'</i>	<i>30"</i>	—	—	
								DRILLER <i>V. Aymar</i>	
								CC REP. <i>RSW</i>	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	4	█	FILL - Misc. debris - soil, wood, glass, paper, etc.	R 3"
			4			
2			6			
			6			
3		S-2		█	FILL - Misc. debris - paper, etc.	R 1"
4						
5			5			
6			5			
7		S-3	2	█	FILL - Misc. debris - soil, glass, wood, metal, etc.	R 1"
8						
9			13			
10			6			
11		S-4	5	█	Sand, fine, trace to little silt, gray (SP-SM)	R 16" [-7.4"]
12			4			
13						
14						
15		S-5		█	Sand, med. to fine, trace silt (SP)	R 15"
16			8			
17			9			
18			10			
19		S-5	10	█	Clayey silt gray, stiff	R 15"
20			8			
21			7			
22			11	█		
23						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 13	
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	5	█	Clayey silt and silty clay, gray and red-brown, thinly layered varved structure, stiff (CL)	R 24"
26			7			
26			9			
27			11			
28						
29						
30		S-7	5	█	ditto	R 22"
31			7			
31			10			
32			10			
33					- increasing silt content -	
34						
35		S-8	4	█	ditto	R 21"
36			5			
36			8			
37			8			
38						
39						
40		S-9	5	█	ditto, few clay seams.	R 23"
41			5			
41			6			
42			6			
43						
44						
45		S-10	2	█	Silt, clayey silt, silty clay, clay, varved structure, soft.	R 23"
46			1			
46			2			
47			2			
48						
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 13	
PROJECT <i>MSLA-1A-LANDFILL</i>				SHT. NO. 3 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>				PROJ. NO. <i>83-07194-01</i>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		<i>S-W</i>	<i>WR</i>	[shaded]	<i>ditto</i>	<i>224"</i>
51			↓			
52						
53					<i>End of boring</i>	<i>52'0"</i> <i>[-44.3']</i>
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry to level of pervious fill.

*Victor Aimar - Driller
Anthony Kurzynowski - Helper*

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 14	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 4		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 7.5		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Mud	SBS	—	OST	DATE START 8-24-83
8-24-83	2:45	8'10"	—	DIA.	Casing	2"	—	3.0"	DATE FINISH 8-24-83
	On completion			WT.	to	140#	—		DRILLER V. AIMAR
* 8-25-83	10:00	6'6"		FALL	20'	30"	—		CC REP. RSW
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	10		FILL - Misc. debris - soil, brick, stone, wood, etc.				R 4"
			6						
			5						
			4						
2									
3									
4									
5									
6		S-2	11		FILL - Misc. debris - wood, paper, etc.				R 1"
			3						
			4						
7			5						
8									
9									
10									
11		S-3	2		Decomposed organic matter (Pt) mixed with misc. debris fill				R 4"
			2						
			4						
12			6						
13									
14									
15									
16		S-4	8		Silty sand, fine, gray-green (SM)				R-12"
			6						
			5						
17			7						
18									
19									
20									
21		S-5	6		Clayey silt and silty clay, gray and red-brown, Thinly layered varved structure, stiff (CL)				R 20"
			9						
			14						
22			13						
23									

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 14	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 4	
CLIENT HAKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	6	█	Clayey silt, brown, stiff, no layering (LL)	R 20"
26			8			
27			10			
28			12			
29		S-7 U/D	PUSH			R 23"
30		S-7	6	█	Clayey silt with layers, silty clay, and clay, stiff (LL)	R 22"
31			8			
32			10			
33			13			
34						
35		S-8	3	█	Silt, clayey silt, silty clay, and clay, gray and red-brown. Thinly layered varved structure, firm (LL)	R 24"
36			3			
37			4			
38			3			
39						
40						
41		S-9	1	█	ditto	R 22"
42			2			
43			1			
44						
45						
46		S-10	WR	█	ditto, soft	R 20"
47			↓			
48						
49						

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 14		
PROJECT MSLA-1A LANDFILL				SHT. NO. 3 OF 4		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	WR	█	ditto. higher plasticity. thicker layers	R 24"
51			↓			
52						
53		S-12		█	ditto	R 24"
54						
55			WR			
56			↓			
57		S-13		█	ditto, firm	R 24"
58						
59			WR			
60			↓			
61		S-14		█	ditto, firm	R 24"
62						
63			WR			
64			↓			
65		S-15		█	ditto. thinner layers	R 22"
66						
67			WR			
68			↓			
69				█		
70						
71			WR			
72			↓			
73				█		
74						

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 14	
PROJECT <i>MSLA-1A LAND FILL</i>					SHT. NO. 4 OF 4	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
75					ditto	R 24"
76		S-16	WR ↓			
77						
78					78'0"	
79					[70.5]	
80			1		Silt, clayey silt, silty clay, red-brown, irregular layers, occasional pieces fine gravel, stiff (CL)	R 6"
81		S-17	3			
82			2			
83			3			
84					83'0"	Lost drilling fluid @ 83'
85					[75.5]	
86		S-18	100/4"		Glacial till / weathered shale: Gravel. Coarse to fine, little sand, trace silt and clay, red-brown. Gravel is shale broken by driving sampler (GP)	R 4"
87						
88						
89					ditto, harder gravel	
90					90'2"	R 2"
91		S-19	150/2"		End of boring	[82.7]
92					Hole filled with bentonite slurry to level of previous fill	
93						
94						
95					Victor Aimar - Driller	
96					Anthony Kurzynowski - Helper	
97						
98						
99					Ground water levels: * 9-14-83 11:30 6'2"	

Converse Consultants, Inc.		TEST BORING LOG				BORING NO. 15	
PROJECT MSLA-1A LANDFILL						SHT. NO. 1 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION						PROJ. NO. 83-07194-01	
BORING CONTRACTOR WARREN GEORGE INC						ELEVATION 7.6	
GROUND WATER				CAS.	SAMP.	CORE	TUBE
DATE	TIME	DEPTH	CASING	TYPE	MWD	SBS	DATUM
8-25-83	9:30	5'3"	-	DIA.	casing	2"	DATE START 8-24-83
	on completion			WT.	to	140#	DATE FINISH 8-25-83
				FALL	20'	30"	DRILLER V. AIMPFR
							CC REP. RSW

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	3	█	FILL- Misc. debris - paper, concrete, soil, etc.	R 3"
			3			
2			16			
			23			
3						
4						
5						
6		S-2	3	█	FILL- Misc. debris	R 1"
			1			
7			4			
			3			
8						
9						
10						
11		S-3	3	█	FILL	No Recovery
			2			
12			3			
			2			
13					(Possible organic matter mixed with fill)	
14						
15					TOP- decomposed organic matter	R 13"
16		S-4	6	█	Bottom- silty clayey sand, fine, gray and green mottled, stiff	[E 8.4]
			8			
17			12			
			11			
18						
19						
20						
21		S-5	6	█	Clayey silt and silty clay, gray and red-brown, thinly layered varved structure. stiff (LL)	R 22"
			8			
22			11			
			12			
23						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.

TEST BORING LOG

BORING NO. 15

PROJECT MSLA-1A LANDFILL

SHT. NO. 2 OF 3

CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION

PROJ. NO. 83-07194-01

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25			10		ditto	R 24"
26		S-6	9			
27			15			
28			15			
29						
30			12		ditto	R 23"
31		S-7	10			
32			12			
33			14			
34						
35			6		ditto, slightly higher plasticity	R 22"
36		S-8	4			
37			7			
38			7			
39						
40			1		ditto, with clay layers, firm	R 23"
41		S-9	1			
42			1			
43			1			
44						
45			1/2"		ditto, very soft	R 21"
46		S-10	1/2"			
47						
48						
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.	TEST BORING LOG	BORING NO. 15
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PROJECT <i>MSLA-1A LANDFILL</i>	SHT. NO. 3 OF 3
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>	PROJ. NO. <i>B3-07194-01</i>

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER-6"	SYMBOL	IDENTIFICATION	REMARKS
50						
51		S-11	WR ↓		<i>ditto</i>	<i>223"</i>
52					<i>52'0"</i>	
53					<i>End of boring</i>	<i>[44.4]</i>
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry to level of pervious fill

*Victor Aimar - Driller
Anthony Kurzynowski - Helper*

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 16	
PROJECT <i>MSLA-1A LANDFILL</i>								SHT. NO. 1 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>								PROJ. NO. <i>83-07194-01</i>	
BORING CONTRACTOR <i>WARREN GEORGE INC.</i>								ELEVATION <i>7.7</i>	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	OST	DATE START
<i>9-14-83</i>	<i>11:30</i>	<i>Blocked at 5'1 (bentonite)</i>		DIA.	<i>Casing</i>	<i>2"</i>	—	<i>3.0"</i>	<i>8-25-83</i>
				WT.	<i>to 0</i>	<i>140#</i>	—		<i>8-26-83</i>
				FALL	<i>20'</i>	<i>30"</i>	—		DRILLER <i>V. Aimer</i>
									CC REP. <i>RSW-WTM</i>
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	5	█	<i>FILL - Misc. debris - soil, paper, plastic, etc.</i>				<i>R3"</i>
			2						
2			2						
			2						
3									
4									
5									
6		S-2	5	█	<i>FILL - Misc. debris</i>				<i>R2"</i>
			2						
7			4						
			6						
8									
9									
10									
11		S-3	2	█	<i>ditto</i>				<i>R2"</i>
			2						
12			3						
			3						
13					<i>13'0"</i>				
14					<i>[-5.3']</i>				
					<i>Organic silt and peat, soft, dark brown (Pt)</i>				
15		S-4	9	█	<i>Silty sand, fine, low plasticity, gray; to sandy clay (SM-CL)</i>				<i>R7"</i>
			8						
16			7						
			7						
17					<i>15'6"</i>				<i>Lost mud while drilling from 15' to 20'</i>
18					<i>18'6"</i>				
19					<i>[-10.8']</i>				<i>4" casing installed to 22'.</i>
20									
21		S-5	7	█	<i>Silt, clayey silt, and silty clay, gray and red-brown, thinly layered varved structure, stiff (CL)</i>				<i>R18"</i>
			8						
22			13						
			14						
23									

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 16	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25			7		Silt. clayey silt and silty clay, gray and red-brown, thinly layered varved structure, stiff (LCL)	R 18"
26		S-6	9			
26			15			
27			15			
28						
29						
30			5		ditto	R 17"
31		S-7	8			
31			10			
32			10			
33						
34		U-1	PUSH 24"		ditto	R 22"
35						
36		S-8	5		ditto	R 13"
36			7			
36			10			
37			4			
38						
39						
40			3		ditto increasing plasticity	R 24"
41		S-9	4			
41			6			
42			7			
43						
44						
45			3		ditto, thickening varves, firm	R 17"
46		S-10	3			
46			6			
47			7			
48						
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 16	
PROJECT MSLA-1A LANDFILL				SHT. NO. 3 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50						
51		S-11	WR ↓ 2		ditto, soft	R24"
52					52'0"	
53					End of boring	[-44.3]
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

Hole filled with bentonite slurry to level of pervious fill

Victor Aimar - Driller
Anthony Kurzynowski - Helper

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 17	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 8.51		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Mud	SBS	—	—	
8-25-83	4:00	3'0"	—	DIA.	Casing	2"	—	—	
				WT.	to	140#	—	—	
				FALL	22'	30"	—	—	
							DRILLER V. AIMAR		
							CC REP. RSW		

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	4 8 50 22		FILL- Misc. debris - soil, wood, concrete, glass, etc.	R 3"
2						
3						
4						
5						
6		S-2	11 2 4 2		FILL- Misc. debris - wood, paper, brick, etc.	No Recovery on first attempt redrove to 7'6" R 4"
7						
8						
9						
10		S-3	18 8 18 21		FILL- Misc. debris - wood, paper, cloth, etc.	R 5"
11						
12						
13						
14						
15		S-4	3 3 48 8		FILL- Misc. debris - wood, cloth, paper, wire etc.	R 8"
16						
17						
18					18'0" [9.5]	
19						
20		S-5	3 3 7 7		Silty sand, fine, and clayey silt in layers (1" to 3") gray (SM) (CL)	R 12" set casing
21						
22						
23						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 17	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24					24'0" [-15.5']	
25		S-6	6		Clayey silt and silty clay, gray & red-brown, thinly layered varved structure, stiff (LL)	R 22"
26			8			
27			10			
28			11			
29						
30		S-7	4		ditto	R 23"
31			4			
32			6			
33			7			
34						
35		S-8	2		ditto	R 22"
36			3			
37			4			
38			5			
39						
40		S-9	1		Silt, clayey silt, silty clay, and clay mostly gray, thinly layered varved structure, firm (LL)	R 24"
41			2			
42			2			
43			3			
44						
45		S-10	WR		ditto, gray and red-brown, soft	R 22"
46			↓			
47			1			
48						
49						

Converse Consultants, Inc.	TEST BORING LOG	BORING NO. 17
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PROJECT <i>MSLA-1A LANDFILL</i>	SHT. NO. 3 OF 3
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>	PROJ. NO. <i>83-07194-01</i>

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11			<i>ditto, gray and red-brown, soft</i>	<i>R24*</i>
51			<i>WR</i> ↓			
52					<i>52'0"</i>	
53					<i>End of boring</i>	<i>[-43.5']</i>
54						
55						
56						
57						
58						
59						
60					<i>Hole filled with bentonite slurry to level of pervious fill</i>	
61						
62						
63						
64						
65					<i>Victor Aimar - Driller</i>	
66					<i>Anthony Kurzynowski - Helper</i>	
67						
68						
69						
70						
71						
72						
73						
74						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 18	
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>9.0</i>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS</i>	<i>—</i>	<i>ST</i>	DATE START <i>8-24-83</i>
<i>Hole blocked by debris</i>			<i>fill</i>	DIA.	<i>Casing</i>	<i>2"</i>	<i>—</i>	<i>3.0"</i>	DATE FINISH <i>8-25-83</i>
				WT.	<i>to</i>	<i>140#</i>	<i>—</i>		DRILLER <i>W. LAIRDE</i>
				FALL	<i>15'</i>	<i>30"</i>	<i>—</i>		CC REP. <i>RSW</i>
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	3	█	FILL - Misc. debris - concrete, etc.				R2"
			10						
			13						
2			11						
3									
4									
5									
6		S-2	WH	█	FILL				No Recovery
			12						
			4						
7			3						
8									
9									
10									
11		S-3	7	█	FILL - Misc. debris - wood, brick, plastic, paper, etc. (possibly mixed with organic matter)				R3"
			4						
			3						
12			5						
13									
14									
15									
16		S-4	2	█	Top - Decomposed organic matter, some fill (Pt) 14'0"				R2"
			2						
			4						
17			10						
18									
19									
20									
21		S-5	12	█	Bottom - Clayey sand, gray, medium to mostly fine (SC) 16'6"				R1"
			13						
			12						
22			7		ditto 23'0" [14.0"]				Appreciable debris above soil in sampler
23									

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 18	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25			5		Clayey silt, brown and gray, occasional seam fine sand (ML)	R 18"
26		S-6	7			
			9			
27			11			
28						
29						
30		S-7	PRESS			No Recovery
31		U/D				
32			8		Clayey silt and silty clay, gray and red-brown, thinly layered varved structure, firm (CL)	R 18"
33		S-7	8			
			11			
34			12			
35					ditto	
36		S-8				R 13" useful recovery
37		U/D				
38						
39						
40			3		Silt, clayey silt, silty clay and clay, gray and red-brown, thinly layered varved structure, firm	R 19"
41		S-9	3			
			4			
42			5			
43						
44						
45					ditto	
46		S-10	WH			R 22"
			WH			
47			1			
			1			
48						
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 18	
PROJECT <i>MSLA-1A LANDFILL</i>				SHT. NO. 3 OF		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>				PROJ. NO. <i>B3-07194-01</i>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11			<i>ditto, thicker layers, soft</i>	224"
51			WR			
52				↓		52'0"
53					<i>End of boring</i>	[43.0']
54						
55						
56						
57						
58						
59						
60					<i>Boring filled with bentonite slurry to level of pervious fill</i>	
61						
62						
63						
64						
65					<i>William Lazroe - Driller Robert Verpent - Helper</i>	
66						
67						
68						
69						
70						
71						
72						
73						
74						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 19	
PROJECT <i>MSLA-1A LANDFILL</i>							SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>							PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>							ELEVATION <i>6.5</i>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	—	DATE START <i>8-24-83</i>
<i>8-24-83</i>	<i>2:00</i>	<i>1'0"</i>		DIA. <i>Casing</i>	<i>2"</i>	<i>—</i>	<i>—</i>	<i>—</i>	DATE FINISH <i>8-24-83</i>
		<i>on completion</i>		WT. <i>to</i>	<i>140#</i>	<i>—</i>	<i>—</i>	<i>—</i>	DRILLER <i>W. LAZROE</i>
<i>8-25-83</i>	<i>7:35</i>	<i>0'11"</i>		FALL <i>20'</i>	<i>30"</i>	<i>—</i>	<i>—</i>	<i>—</i>	CC REP. <i>R.S.W</i>
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	2	█	FILL - Misc. debris - soil, ashes, plastic, etc.				R 8"
			4						
			6						
			5						
2		S-2		█	FILL - Misc. debris - wood, cloth, etc.				R 1"
			6						
			4						
			7						
3		S-3		█	FILL - Misc. debris - brick, wood, paper, etc.				R 1"
			9						
			12						
			15						
4		S-4L		█	Possible mixed decomposed organic matter and fill				No Recovery Lost drilling fluid at 16 1/2 Redrove Sampler
			18						
			22						
			4						
5		S-4		█	Silty sand, fine, gray (SM)				R 14"
			8						
			2						
			7						
6		S-5		█	Clayey silt, brown (ML)				R 18"
			17'6"						
			14'0"						
			7						
7					14'0"				
8					[7.5]				
9					17'6"				
10					[11.0]				
11					20'0"				
12					[13.5]				
13					23'0"				
14					[16.5]				

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 19	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH F.T.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	3	█	Clayey silt, gray & red-brown, Thinly layered structure, firm (ML)	R 17"
26			4			
27			6			
28			6			
29						
30		S-7	3	█	Clayey silt and silty clay, gray and red-brown, Thinly layered varved structure, firm (CL)	R 21"
31			5			
32			5			
33			6			
34						
35		S-8	4	█	ditto	R 22"
36			5			
37			6			
38			5			
39						
40		S-9	2	█	ditto, Thicker layers	R 24"
41			2			
42			2			
43			2			
44						
45		S-10	1/24"	█	ditto, soft	R 21"
46						
47						
48						
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 19	
PROJECT MSLA-1A LANDFILL					SHT. NO. 3 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	WR		ditto	R22"
51			↓			
52					52'0"	
53					End of boring	[45.5]
54						
55						
56						
57						
58						
59						
60					Hole filled with bentonite slurry to level of pervious fill	
61						
62						
63						
64						
65					William Lazroe - Driller	
66					Robert Verpent - Helper	
67						
68						
69						
70						
71						
72						
73						
74						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

15		S-4	4	█	Silty sand, fine, gray (SM)	R 8"
16			3			
17			7			
18			6			
19					19'0"	
20		S-5	4	█	Clayey silt and silty clay, gray and red-brown, Thinly layered varved structure, stiff (CL)	R 16"
21			4			
22			5			
23			8			

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 22	
PROJECT <i>MSLA-1A LANDFILL</i>								SHT. NO. 1 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>								PROJ. NO. <i>83-07194-01</i>	
BORING CONTRACTOR <i>WARREN GEORGE INC</i>								ELEVATION <i>4.2</i>	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	<i>Mud</i>	<i>SBS</i>	<i>—</i>	<i>ST</i>	DATE START <i>8-22-83</i>
<i>8-24-83</i>	<i>7:50</i>	<i>1'1"</i>	<i>—</i>	DIA.	<i>Casing</i>	<i>2"</i>	<i>—</i>	<i>3.0"</i>	DATE FINISH <i>8-23-83</i>
				WT.	<i>to</i>	<i>140#</i>	<i>—</i>		DRILLER <i>W. LAZROE</i>
				FALL	<i>17'</i>	<i>30"</i>	<i>—</i>		CC REP. <i>R.S.W</i>
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	4		FILL - Misc. debris - soil, brick, concrete, etc.				R 6"
			10						
			17						
			33						
2					FILL - Misc. debris - decomposed wood, etc.				R 2"
3									
4									
5		S-2	1						
6			2		Decomposed organic matter, soft (Pt)				R 7"
7			2						
8			1						
9									
10					Sand, fine, trace to little silt. (SP-SM)				R 7"
11		S-3	w/t ↓ 4						
12					Silt, soft, gray, low plasticity, somewhat organic (ML)				R 14"
13									
14									
15		S-4	1						
16			0		Sand, medium to fine, trace silt (SP) and silt, slightly plastic (ML) in layers (6"±), gray.				R 17"
17			0						
18			1						
19									
20					Sand, medium to fine, trace silt (SP) and silt, slightly plastic (ML) in layers (6"±), gray.				R 17"
21		S-5	7						
22			13						
23			13						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 22		
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	4	█	Clayey silt and silty clay, Thinly layered varved structure, gray & red-brown, stiff. (CL)	R 24"
26			6			
27			9			
28			10			
29						
30		S-7 U/D	PUSH	█	Silt, clayey silt, and silty clay, thinly layered varved structure, gray & red-brown very stiff (CL)	R 24"
31			24"			
32						
33						
34						
35		S-8	4	█	ditto, stiff	R 22"
36			6			
37			7			
38			9			
39						
40		S-9	3	█	ditto, with clay seams	R 24"
41			4			
42			6			
43			5			
44						
45		S-10	3	█	ditto	R 24"
46			4			
47			6			
48			7			
49						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 22	
PROJECT MSLA-1A LANDFILL					SHT. NO. 3 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	2	█	ditto	R 24"
51			3			
			4			
			5			
52						
53				End of boring	[47.8"]	
54						
55						
56						
57						
58						
59						
60					Hole filled with bentonite slurry to level of pervious fill.	
61						
62						
63						
64						
65					William Lazroe - Driller Robert Verpent - Helper	
66						
67					Boring filled with bentonite slurry	
68						
69						
70						
71						
72						
73						
74						

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 23	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 7.5		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	—	DATE START 8-22-83
9-14-83		blocked at 1'9"		DIA.	Casing	2"	—	—	DATE FINISH 8-22-83
		(bentonite)		WT.	to	140#	—	—	DRILLER W. LAZROE
		(bentonite)		FALL	20'	30"	—	—	CC REP. RSW
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	6		FILL- Misc. debris- bricks, gravel, etc.				R4"
			8						
			9						
2			3						
3									
4									
5			3		FILL- Misc. debris- soil, plastic, etc.				R1"
		S-2	4						
			2						
6			3						
7									
8									
9									
10			34		FILL- Misc. debris- wood, cloth, paper, brick, etc.				R1"
		S-3	27						
			9						
11			5						
12									
13									
14									
15									
16		S-4	6		Silty fine, sand, gray, (SM)				R10"
			9						
			10						
17			12						
18									
19									
20									
21		S-5	5		Silty fine sand, gray (SM)				R13"
			7						
			10						
22			12						
23									

Converse Consultants, Inc.		TEST BORING LOG		BORING NO. 23		
PROJECT MSLA-1A LANDFILL				SHT. NO. 2 OF 3		
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION				PROJ. NO. 83-07194-01		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25			6		ditto	R 16"
26		S-6	9			
27			11			
28			11			
29						
30						
31		S-7	6		Clayey silt. gray, stiff (ML)	R 20"
32			6			
33			7			
34			8			
35						
36		S-8	5		ditto	R 20"
37			6			
38			7			
39			9			
40						
41		S-9	3		Silt, clayey silt, silty clay & clay gray & red-brown, thinly layered varved structure, stiff (CL)	R 22"
42			6			
43			6			
44			7			
45						
46		S-10	4		ditto	R 23"
47			5			
48			6			
49			8			

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 23	
PROJECT <u>MSLA-1A LANDFILL</u>					SHT. NO. 3 OF 3	
CLIENT <u>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</u>					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	4	█	ditto	R.23"
51			6			
52			5			
52			6			
53					52'0"	
54					End of boring	
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

52'0"
[-44.5']

Hole filled with bentonite slurry to level of pervious fill

William Lazroe-Driller
Robert Verpent - Helper

Converse Consultants, Inc.				TEST BORING LOG					BORING NO. 24	
PROJECT <i>MSLA-1A LANDFILL</i>								SHT. NO. 1 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>								PROJ. NO. <i>83-07194-01</i>		
BORING CONTRACTOR <i>WARREN GEORGE INC</i>								ELEVATION <i>7.9</i>		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM		
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	ST	DATE START <i>8-25-83</i>	
<i>8/26/83</i>	<i>3:00</i>	<i>2'8"</i>	<i>—</i>	<i>DIA.</i>	<i>Casing</i>	<i>2"</i>	<i>—</i>	<i>3.0"</i>	<i>DATE FINISH 8-25-83</i>	
<i>9/14/83</i>	<i>11:30</i>	<i>2'5"</i>		<i>WT.</i>	<i>to</i>	<i>140#</i>	<i>—</i>		<i>DRILLER W. LAZROE</i>	
				<i>FALL</i>	<i>15'</i>	<i>30"</i>	<i>—</i>		<i>CC REP. RSW</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS	
1		S-1	2	█	FILL- Misc. debris - soil, wood, plastic, etc.				R5"	
			10							
			4							
			17							
2										
3										
4										
5		S-2	21	█	FILL- Misc. debris - wood, cloth, paper, plastic, etc.				R3"	
			3							
			5							
			8							
6										
7										
8										
9										
10		S-3	10	█	FILL- Misc. debris (Possible organic below 11') $\frac{11'0"}{[-3.1]}$				No recovery	
			2							
			1							
			1							
11										
12										
13										
14										
15		S-4	2	█	Clayey sand, gray and green, stiff (SC) $\frac{14'0"}{[-6.1]}$				R10"	
			4							
			6							
			9							
16										
17										
18										
19										
20		S-5	4	█	Sand, fine, trace silt (SP); silt (ML) and clayey silt (CL); in layers 1" to 2", gray $\frac{17'6"}{[-9.6]}$				R12"	
			5							
			9							
			9							
21										
22										
23										

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 24	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24					24'0" [-16.1']	
25		S-6	4		clayey silt, brown, firm to stiff (ML)	R 12"
26			7			
27			7			
28			9			
29					28'0" [-20.1']	
30		S-7				R 20"
31		U/D	PUSH		clayey silt and silty clay, gray and red-brown. Thinly layered varved structure; very stiff (CL)	
32						
33						
34						
35			6		ditto, firm	R 22"
36		S-8	9			
37			11			
38			11			
39						
40			2		ditto	R 24"
41		S-9	3			P.P. = 0.8 TSF
42			3			
43			4			
44						
45			1		ditto, soft	R 21"
46		S-10	0			P.P. = no reading
47			1			
48			0			
49						

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 24	
PROJECT <i>MSLA-1A LANDFILL</i>					SHT. NO. 3 OF 3	
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>					PROJ. NO. <i>83-07194-01</i>	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	WR	█	ditto	R 24" P.P. = No Reading
51			↓			
52					52'0" [-44.1]	
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						

End of boring

Hole filled with bentonite slurry to level of pervious fill

William Lazroe - Driller
Robert Verpent - Helper

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 25	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 3		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 10.1		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	585	—	—	DATE START 8-25-83
8-26-83	3:00	collapsed at 7'10"	DIA.	Casing	2"	—	—	—	DATE FINISH 8-25-83
9-14-83	1130	5'6"	WT.	to	140#	—	—	—	DRILLER W. LAZROE
			FALL	20'	30"	—	—	—	CC REP. RSW-WTM
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION				REMARKS
1		S-1	4	█	FILL - misc. debris - soil, wood, plastic, etc.				R9" Tip plugged with wood
			7						
			10						
			14						
2		S-2		█	FILL - Wood, etc.				R3" Spoon rebound indicating wood tires.
			24						
			28						
			4						
3		S-3	4	█	ditto				No recovery
			4						
			9						
			15						
4		S-4	6	█	ditto				R2"
			4						
			2						
			2						
5		S-5		█	Possible organic soil				Smear of decomposed organic matter on spoon
			15'10"						
			[5.7]						
			16'10"						
6		S-5		█	Sandy silt, low plasticity, brown and gray, slightly organic (SM)				R14"
			6						
			7						
			8						
7		S-5		█	Sand, medium to fine, about 15% silt, gray (SM)				
			10						

FOR INFORMATION REGARDING SOIL AND GROUNDWATER CONDITIONS SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 25	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HACKENSACK-MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24		S-6			Sandy clay, low plasticity, brown and gray (CL)	R 12" P.P. = 2.5 to 3.5 TSF
25			4			
26			6			
27			8			
28					24'0" [-13.9']	
29		S-7			Clayey silt and silty clay, thinly layered varved structure, Gray and red-brown, stiff (CL)	R 18" P.P. = 1.5 TSF
30			4			
31			7			
32			8			
33					28'0" [-17.9']	
34		S-8			ditto	R 12" P.P. = 1.25 TSF
35			4			
36			5			
37			7			
38						
39		S-9			ditto, more plastic, very thinly layered, 1/16" varves.	R 18" P.P. = 2.0 TSF
40			4			
41			7			
42			10			
43						
44		S-10			ditto	R 24" P.P. = 1.0 TSF
45			3			
46			4			
47			7			
48						
49						

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 25	
PROJECT <i>MSLA-1A LANDFILL</i>				SHT. NO. 3 OF 3		
CLIENT <i>HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION</i>				PROJ. NO. <i>83-07194-01</i>		
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		S-11	3	█	ditto, firm	R 24" P.P. = 0.7 TSF
51			4			
52			5			
53			5			
54						
55					52'0"	
56					[-41.9]	
57						
58						
59						
60					Hole filled with bentonite slurry to level of previous fill.	
61						
62						
63						
64						
65					William Lazroe - Driller	
66					Robert Verpent - Helper	
67						
68						
69						
70						
71						
72						
73						
74						

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT, OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 26	
PROJECT MSLA-1A LANDFILL							SHT. NO. 1 OF 2		
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION							PROJ. NO. 83-07194-01		
BORING CONTRACTOR WARREN GEORGE INC							ELEVATION 9.4		
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	Mud	SBS	—	ST	
8-21-83	7:30	6'0"	—	DIA.	Casing	2"	—	30"	
				WT.	to	140#	—		
				FALL	15'	30"	—		
								DRILLER W. L. H. ZROE	
								CC REP. RSW	

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	3		FILL - Misc. debris - wood, soil paper, cloth, etc.	R 6"
			8			
2			6			
			11			
3						
4						
5		S-2	8		FILL - Misc. debris - wood, brick, etc.	R 6"
6			100/2"			
7						
8						
9						
10			4		FILL - Misc. debris - wood, brick, etc.	R 2"
11		S-3	3			
			5			
12			4			
13						
14					14'0"	[4.6]
15			1		Decomposed organic matter (Pt)	R 8"
16		S-4	1			
			1		16'6"	[7.1]
17			3		Sandy clay, gray, stiff (SC), somewhat mixed with organics	R 12
18						
19					18'0"	[8.6]
20						
21		S-5	12		Sand, fine, gray & gray brown, trace silt (SP)	R 12
			10			
22			11			
			10			
23					23'0"	[13.6]

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART

Converse Consultants, Inc.		TEST BORING LOG			BORING NO. 26	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 2	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24						
25		S-6	6		Clayey silt and silty clay, gray and red-brown, thinly layered varved structure, very stiff (CL).	R 14"
26			9			
27			11			
28			11			
29						
30		S-7 U/D			ditto	R 18"
31			PRESS			
32						
33						
34						
35		S-8	4		ditto, stiff	R 20"
36			4			
37			5			
38			6			
39						
40		S-9	5		ditto, more grav	R 22"
41			6			
42			8			
43			10			
44						
45		S-10	3		ditto	R 23"
46			4			
47			4			
48			5			
49					End of boring Hole filled with bentonite slurry to level of pervious fill.	47'0" [37.6] William Lazoe - Driller Robert Verpent - Helper

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.				TEST BORING LOG				BORING NO. 27	
PROJECT MSLA-1A LANDFILL								SHT. NO. 1 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION								PROJ. NO. 83-07194-01	
BORING CONTRACTOR WARREN GEORGE INC								ELEVATION 18.9	
GROUND WATER				CAS.	SAMP.	CORE	TUBE	DATUM	
DATE	TIME	DEPTH	CASING	TYPE	MUD	SBS	—	ST	DATE START 8-26-83
9/14/83	11:30	Blocked at 14'6"	at (bentonite)	DIA.	Casing	2"	—	30"	DATE FINISH 8-26-83
				WT.	to	140#	—		DRILLER V. AIMAR
				FALL	25'	30"	—		CC REP. RSW-RJB

DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
1		S-1	23 29 32 47		FILL- Misc. debris- wood, concrete brick, sand, silt, gravel, etc.	R 3"
2						
3						
4						
5			13		FILL- ditto	R 5"
6		S-2	5 20			
7			10			
8						
9						
10						No Recovery
11		S-3	29 11 7 5			
12						
13						
14						
15			8		FILL- Misc. debris, metal, wood, sand.	R 3" S-4-wet
16		S-4	5 6 6			
17						
18						
19						
20						
21		S-5	5 9 5 5		FILL- Misc. debris- wood, brick, sand, silt	R 1"
22						
23						

23'0" [E-4.1]

FOR INFORMATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 27	
PROJECT MSLA-1A LANDFILL					SHT. NO. 2 OF 3	
CLIENT HALKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
24		S-6			Organic silt, roots, soft, brown (Pt) 23'0" - 25'6"	R 24" [6.6]
25			4			
26			7			
27			15			
28			16		Silty, med. to fine sand, gray-brown (SM)	
29						
30		S-7	10			
31			13			
32			20			
33			20			
34					Silty fine sand, gray-brown (SM)	R 19"
35						
36		S-8	6			
37			8			
38			10			
39			12			
40					Clayey silt and silty clay, gray and red-brown, Thinly layered varved structure, stiff. (CL)	R 13"
41		S-9	5			
42			7			
43			10			
44			11			
45					ditto	R 15"
46		S-10	6			
47			8			
48			14			
49			15			
					Clayey silt, gray (CL)	R 19"

FOR INTERPRETATION OF SOIL, ROCK AND GROUNDWATER CONDITIONS, SEE TEXT OF CONVERSE CONSULTANTS REPORT OF WHICH THIS LOG IS A PART.

Converse Consultants, Inc.			TEST BORING LOG		BORING NO. 27	
PROJECT MSLA-1A LANDFILL					SHT. NO. 3 OF 3	
CLIENT HACKENSACK MEADOWLANDS DEVELOPMENT COMMISSION					PROJ. NO. 83-07194-01	
DEPTH FT.	CASING BLOWS	SAMPLE NO.	BLOWS ON SAMPLE SPOON PER 6"	SYMBOL	IDENTIFICATION	REMARKS
50		UD 1			Silt, clayey silt, silty clay, and clay gray and red-brown, thinly layered varved structure, stiff (CL)	R 24"
51			PUSH 24"			
52						
53						
54						
55		S-11	4		ditto	R 22"
56			4			
57			7			
58			8			
59						
60		S-12	7		ditto	R 20"
61			8			
62			7			
63			8			
64					End of boring	62'0" [43.1]
65					Hole filled with bentonite slurry to level of previous fill	
66						
67						
68					Victor - Aimar - Driller	
69					Anthony Kurzynowski - Helper	
70						
71						
72						
73						
74						

No. 281	Elev. +3.0	
	0'0"-2'0"	Fill (Cinder)
	2'0"-3'0"	Peat
	3'0"-5'0"	Silt
	5'0"-14'0"	Sand and Gravel
	14'0"-24'0"	Sand, Gravel, Silt and Rock Fragments
	24'0"-46'0"	Silt
	46'0"-63'0"	Silt and Clay
	63'0"-78'0"	Silt with Rock Fragments
	78'0"-82'6"	Sand, Silt and Clay
	82'6"-87'0"	Bedrock
	W.L. -	
No. 282	Elev. +3.0	
	0'0"-2'0"	Fill (Cinder)
	2'0"-3'0"	Peat and Sand
	3'0"-23'0"	Sand and Silt
	23'0"-28'0"	Silt and Clay
	28'0"-31'0"	Silt, Clay and Gravel
	31'0"-46'0"	Silt and Clay
	46'0"-51'0"	Silt, Clay, Gravel and Rock Fragments
	51'0"-55'0"	Silt and Clay
	55'0"-61'0"	Silt, Clay and Sand
	61'0"-68'0"	Silt
	68'0"-71'0"	Silt and Sand
	71'0"-78'0"	Sand
	78'0"-89'0"	Stiff Clay, Silt, Gravel and Rock Fragments
	89'0"-94'0"	Bedrock
	W.L. -	
No. 283	Elev. -0.5	
	0'0"-6'0"	Peat and Sand
	6'0"-23'0"	Sand
	23'0"-74'0"	Silt and Clay with some Sand
	74'0"-89'0"	Rock Fragments
	89'0"-110'0"	Bedrock
	W.L. -	
No. 284	Elev. +2.5	
	0'0"-3'0"	Fill (Cinder and Peat)
	3'0"-6'0"	Peat and Silt
	6'0"-19'0"	Sand and Rock Fragments
	19'0"-45'0"	Silt
	45'0"-85'0"	Silt and Clay
	85'0"-90'0"	Bedrock
	W.L. -	
No. 285	Elev. 0.0	
	0'0"-6'0"	Peat
	6'0"-66'0"	Silt and Clay
	66'0"-70'0"	Silt with Rock Fragments
	70'0"-90'0"	Bedrock
	W.L. -	

No. 286	Elev. -1.0 0'0"-6'0" 6'0"-35'0" 35'0"-70'0" 70'0"-80'0" W.L. -	Peat and Clay Sand, Silt and Clay Silt and Clay Bedrock
No. 287	Elev. -1.0 0'0"-7'0" 7'0"-15'0" 15'0"-46'0" 46'0"-71'0" 71'0"-74'0" 74'0"-80'0" W.L. -	Peat Sand and Silt Silt and Clay Stiff Clay Clay and Rock Fragments Bedrock
No. 288	Elev. -1.5 0'0"-6'0" 6'0"-32'0" 32'0"-73'0" 73'0"-79'0" W.L. -	Peat Sand, Clay and some Rock Fragments Stiff Clay Bedrock
No. 289	Elev. 0.0 0'0"-5'0" 5'0"-18'0" 18'0"-50'0" 50'0"-69'0" 69'0"-70'0" W.L. -	Peat Gray Sand Reddish Silty Clay Varved Silty Clay and Silt Red Sandstone
No. 290	Elev. 0.0 0'0"-5'0" 5'0"-28'0" 28'0"-45'0" W.L. -	Peat Gray Sand Varved Silty Clay
No. 291	Elev. 0.0 0'0"-4'0" 4'0"-28'0" 28'0"-58'0" 58'0"-68'0" W.L. -	Peat Gray Sand Reddish Silty Clay Varved Silty Clay and Silts
No. 292	Elev. 0.0 0'0"-5'0" 5'0"-16'0" 16'0"-68'0" 68'0"-69'0" W.L. -	Peat Gray Sand Varved Clay with Sand Lenses Sandstone

No. 293	Elev. 0.0 0'0"-6'0" 6'0"-15'0" 15'0"-45'0" W.L. -	Peat Gray Sand Varved Silty Clay
No. 294	Elev. 0.0 0'0"-6'0" 6'0"-15'0" 15'0"-71'0" 71'0"-72'0" W.L. -	Peat Gray Sand Reddish Silty Clay Weathered Sandstone
No. 295	Elev. 0.0 0'0"-7'0" 7'0"-19'0" 19'0"-58'0" W.L. -	Peat Gray Sand Reddish Silty Clay
No. 296	Elev. 0.0 0'0"-5'0" 5'0"-18'0" 18'0"-70'0" 70'0"-71'0" W.L. -	Peat Clean Gray Sand Gray Clayey Silt with Varved Clayey Silt and Clay Red Sandstone Bedrock
No. 297	Elev. 0.0 0'0"-5'0" 5'0"-16'0" 16'0"-68'0" W.L. -	Meadow Mat Clean Gray Sand Gray Clayey Silt with Varved Clayey Silt and Clay
No. 298	Elev. 0.0 0'0"-5'0" 5'0"-16'0" 16'0"-90'0" 90'0"-91'0" W.L. -	Peat Gray Sand Reddish Varved Silts and Clays Sandstone
No. 299	Elev. 0.0 0'0"-5'0" 5'0"-13'0" 13'0"-90'0" W.L. -	Peat Gray Sand Soft Varved Silty Clay

No. 300	Elev. 0.0 0'0"-5'0" 5'0"-8'0" 8'0"-85'0" W.L. -	Peat Gray Sand Soft Varved Silty Clay
No. 301	Elev. 0.0 0'0"-5'0" 5'0"-8'0" 8'0"-90'0" W.L. -	Meadow Mat Gray Sand Soft Varved Silty Clay
No. 302	Elev. 0.0 0'0"-5'0" 5'0"-13'0" 13'0"-89'0" 89'0"-90'0" W.L. -	Peat Gray Coarse Sand Reddish Varved Silts and Clays Sandstone
No. 303	Elev. 0.0 0'0"-5'0" 5'0"-9'0" 9'0"-86'0" 86'0"-89'0" W.L. -	Meadow Mat Gray Sand Coarse Reddish Varved Silts and Clays Probable Bedrock
No. 304	Elev. 0.0 0'0"-5'0" 5'0"-11'0" 11'0"-85'0" 85'0"-86'0" W.L. -	Meadow Mat Gray Coarse Sand Soft Varved Silty Clay Fine Red Sand
No. 305	Elev. 0.0 0'0"-5'0" 5'0"-15'0" 15' 0"-90'0" 90'0"-95'0" W.L. -	Peat and Organic Clay Silty Sand Soft Varved Silty Clay Shale Bedrock
No. 306	Elev. 0.0 0'0"-6'0" 6'0"-15'0" 15'0"-95'0" 95'0"-98'0" W.L. -	Peat and Organic Clay Sand to Silty Sand Soft Varved Silty Clay Shale Bedrock

No. 307	Elev. -0.4 0'0"-6'0" 6'0"-8'0" 8'0"-12'0" 12'0"-62'0" 62'0"-94'0" 94'0"-102'3" 102'3"-102'9" W.L. -	Meadow Bog Soft Sandy Blue Clay Fine Gray Silty Sand Soft Grayish Brown Clay Soft Brown Clay Red Clay Sand and Gravel Rock
No. 308	Elev. -0.2 0'0"-7'6" 7'6"-8'6" 8'6"-13'0" 13'0"-20'0" 20'0"-51'6" 51'6"-81'6" 81'6"-89'6" 89'6"-91'0" 91'0"-94'0" W.L. -	Meadow Bog Soft Sandy Blue Clay Fine Gray Silty Sand Soft Grayish Brown Clay Soft Gray Clay Soft Brown Clay Soft Reddish Brown Clay Compact Red Clay Sand Gravel and Pieces of Red Rock Hard Fine Grained Red Rock
No. 309	Elev. +1.6 0'0"-3'6" 3'6"-8'0" 8'0"-10'6" 10'6"-67'0" 67'0"-96'0" 96'0"-99'6" W.L. -	Dirt Red Brick and Wood Fill Meadow Bog Fine Gray Silty Sand Soft Gray Clay Soft Brown Clay Hard Fine Grained Red Rock
No. 310	Elev. -0.4 0'0"-5'0" 5'0"-12'0" 12'0"-60'0" 60'0"-83'0" 83'0"-87'0" 87'0"-92'0" W.L. -	Meadow Bog Fine Gray Silty Sand Soft Grayish Brown Clay Soft Brown Clay Compact Red Clay Sand Gravel and Pieces of Red Rock Hard Fine Grained Red Rock
No. 311	Elev. -0.5 0'0"-5'6" 5'6"-13'0" 13'0"-45'0" 45'0"-90'0" 90'0"-94'0" W.L. -	Meadow Bog Fine Gray Silty Sand Soft Grayish Brown Clay Soft Brown Clay Red Clay Sand and Fine to Coarse Gravel

