

TEST BORING LOG

CON-TEC., INC.
P.O. BOX 1153
CONCORD, N.H. 03301
603-224-0020

PROJECT SEPTAGE STUDY

LOCATION SHARON, MA.

HOLE NO. 4

DATE STARTED 10/4/82

COMPLETED

10/4/82

SURF. ELEV. 274.06

GROUND WATER DEPTH ON COMPLETION 24'

JOB NO. 8245

N-NO OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C-NO. OF BLOWS TO DRIVE

CASING 12" W/300 LB. WEIGHT FALLING 24"

SHEET 1 OF 2

BORING MADE WITH HOLLOW STEM AUGER CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'				5'-6.5'	TOPSOIL .6'
					Light brown, dry SILT 2.5'
		21-28	1		Light brown, dry, very dense, coarse to fine GRAVEL and coarse to fine SAND
		36			9.0'
10.0'		6-7	2	10'-12'	Light brown, dry, medium-dense, medium to fine SAND, little fine to medium gravel
		8-10			
15.0'					15.0'
20.0'		5-4	3A	15'-16'	Light brown, dry, loose, medium to fine SAND
		5-7	3B	16'-17'	
					16.0'
					Light brown, dry, medium to dense, fine SAND, trace silt in occasional $\frac{1}{2}$ " layers
25.0'		3-5	4	20'-22'	
		7-7			
					24.0'
					Light brown, wet, medium-dense, fine SAND and SILT
30.0'		4-5	5	25'-27'	
		6-6			27.5'
					Light brown, wet, medium-dense, fine SAND
35.0'		3-4	6	30'-32'	
		6-6			
		2-4	7	35'-37'	
		5-6			37.0'
					BOTTOM OF BORING 37.0'

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PROJECT SEPTAGE STUDY

LOCATION SHARON, MA.

HOLE NO. 4

DATE STARTED 10/4/87

COMPLETED

10/4/83

SURF. ELEV. 274.06

GROUND WATER DEPTH ON COMPLETION 24'

JOB NO. 8244

N-NO OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C-NO. OF BLOWS TO DRIVE

CASING 12" W/300 LB. WEIGHT FALLING 24"

SHEET 2 OF 2

BORING MADE WITH HOLLOW STEM AUGER CASING

[illegible]

TEST BORING LOG

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CONCORD, N.H. 03301
603-224-0020

PROJECT SEPTAGE STUDY

LOCATION SHARON, MA.

HOLE NO. 5

DATE STARTED 10/5/82

COMPLETED 10/5/82

SURF. ELEV. 269.06

GROUND WATER DEPTH ON COMPLETION - 13.5'

JOB NO. 8245

N-NO OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C-NO. OF BLOWS TO DRIVE

CASING 12" W/300 LB. WEIGHT FALLING 24"

SHEET 1 OF 1

BORING MADE WITH HOLLOW STEM AUGER CASING AND 4" HW CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'				5'-7'	TOPSOIL .5'
					Coarse to fine GRAVEL and fine to coarse SAND, trace silt 4.0'
10.0'		12-14	1	10'-12'	Light brown, dry, medium-dense, medium to fine SAND and fine to medium GRAVEL 8.0'
		14-12			
15.0'		5-5	2	13'-15'	Light brown, dry, medium-dense, fine to medium SAND, trace fine to medium gravel 12.0'
		5-6			
20.0'		3-3	3	15'-17'	Light brown, wet, loose, fine SAND and SILT (sample wet @ 13.5')
		3-4			
25.0'		2-3	4	20'-22'	18.0'
		4-5			
		3-4	5		Light brown, wet, medium-dense, fine SAND, trace silt in occasional 1" layers 22.0'
		7-8			
					BOTTOM OF BORING 22.0'
					NOTE: Installed 21.5' of 2" PVC riser pipe in borehole; bottom 10' section is slotted.

APPENDIX B

HALEY & ALDRICH, INC. TEST BORING REPORTS

To HALEY & ALDRICH, INC., CAMBRIDGE, MADate MARCH 11, 1987Job No 87189Location CEAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278)Scale 1" = 3 ft.

BORING

1

GROUND SURFACE

	<u>F I L L</u>	5 3 3 3	S#1, FROM G.S. TO 2'0" RECOVERED 6"
	LOAMY SAND, GRAVEL	5 45 53 51	S#2, FROM 5'0" TO 7'0" RECOVERED 8"
8'0"	MEDIUM DENSE FINE SAND, LITTLE GRAVEL	6 8 6 7	S#3, FROM 10'0" TO 12'0" RECOVERED 9"
13'6"	MEDIUM DENSE FINE SAND, TRACE OF INORGANIC SILT	6 9 10 11	S#4, FROM 15'0" TO 17'0" RECOVERED 9"
17'6"	DENSE FINE SAND, SOME INORGANIC SILT	14 15 17 20	S#5, FROM 20'0" TO 22'0" RECOVERED 21"
24'0"			

(CONTINUED ON SHEET NO. 2)

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone 391-4500

To HALEY & ALDRICH, INC., CAMBRIDGE, MA Date MARCH 11, 1987 Job No 87189Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278) Scale 1" = 3 ft.

BORING

1

(CONTINUED)

24'0"	LOOSE FINE SAND, SOME INORGANIC SILT	
		3
		4
		5
27'0"		6

S#6, FROM 25'0" TO 27'0"
RECOVERED 22"

WATER LEVEL 18'0"

SIZE OF AUGERS 3-3/4" I.D., LENGTH 25'0"

DRILLER: S. WOICULEVICZ INSPECTOR: B. KICKHAM

DATE STARTED & COMPLETED: 3-6-87

INSTALLED OBSERVATION WELL (2" PVC PIPE, 10'0" SLOTTED,
15' SOLID), 25'0" BELOW GROUND SURFACE, 2'6" STICK-OUT,
INCLUDING PROTECTIVE CASING.

All samples have been visually classified by HJD Unless otherwise specified, water levels noted were observed at completion of borings, and do not necessarily represent permanent ground water levels. Figures in right hand column indicate number of blows required to drive two-inch split sampler 6 inches using 140 lb. weight falling 30 inches \pm . Figures in column to left (if noted) indicate number of blows to drive casing one foot, using 300 lb. weight falling 24 inches \pm .

SHEET 2 of 2

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone 391-4500

To HALEY & ALDRICH, INC., CAMBRIDGE, MADate MARCH 11, 1987Job No 67189Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278)Scale 1" = 3 ft.

BORING

2

GROUND SURFACE

		3	S#1, FROM G.S. TO 2'0"
		6	RECOVERED 6"
		6	
	<u>F I L L</u>	11	
	LOAMY SAND,		
	GRAVEL, COBBLES,		
	BOULDERS		
		56	S#2, FROM 5'0" TO 6'3"
		70	RECOVERED 11"
		100/3"	
9'6"			
	MEDIUM DENSE FINE SAND	7	S#3, FROM 10'0" TO 11'0"
		9	RECOVERED 5"
11'0"			
		11	S#3A, FROM 11'0" TO 12'0"
		11	RECOVERED 7"
	MEDIUM DENSE		
	FINE SAND &		
	INORGANIC	8	S#4, FROM 15'0" TO 17'0"
		8	RECOVERED 15"
		8	
	SILT	6	
		7	S#5, FROM 20'0" TO 22'0"
		8	RECOVERED 22"
		8	
22'0"		6	

(CONTINUED ON SHEET NO. 2)

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone 391-4500

To HALEY & ALDRICH, INC., CAMBRIDGE, MA Date MARCH 11, 1987 Job No 87189
Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278) Scale 1" = 3 ft.

BORING 2 (CONTINUED)

WATER LEVEL 13'0"

SIZE OF AUGERS 3-3/4" I.D. LENGTH 20'0"

DRILLER: S. WOJCULEWICZ, INSPECTOR: B. KICKAM

DATE STARTED & COMPLETED: 3-6-87

INSTALLED OBSERVATION WELL(2" PVC PIPE, 10'0" SLOTTED,
22'6" SOLID), 20'0" BELOW GROUND SURFACE.

All samples have been visually classified by RJD Unless otherwise specified, water levels noted were observed at completion of borings, and do not necessarily represent permanent ground water levels. Figures in right hand column indicate number of blows required to drive two-inch split sampler 6 inches using 140 lb. weight falling 30 inches \pm . Figures in column to left (if noted) indicate number of blows to drive casing one foot, using 3" weight falling 24 inches \pm .

SHEET 2 of 2

37 LINDEN STREET P.O. BOX 67 MEDFORD, MA 02155-0001 Telephone 391-4500
 To HALEY & ALDRICH, INC., CAMBRIDGE, MA Date MARCH 11, 1987 Job No 67189
 Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278) Scale 1" = 3 ft.

BORING 3

GROUND SURFACE

	5	S#1, FROM G.S. TO 2'0" RECOVERED 10"
	6	
	7	
	11	
<u>F I L L</u> MEDIUM SAND, GRAVEL, COBBLES	14	S#2, FROM 5'0" TO 7'0" RECOVERED 9"
	16	
	13	
	12	
9'0"		
	6	S#3, FROM 10'0" TO 12'0" RECOVERED 9"
	9	
	9	
	10	
MEDIUM DENSE DENSE FINE SAND & INORGANIC SILT	4	S#4, FROM 15'0" TO 17'0" RECOVERED 16"
	7	
	8	
	8	
	3	S#5, FROM 20'0" TO 22'0" RECOVERED 22"
	6	
	6	
	7	
25'0"		

(CONTINUED ON SHEET NO. 2)

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

Telephone 391-4500

To HALEY & ALDRICH, INC., CAMBRIDGE, MA Date MARCH 11, 1987 Job No 87189Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278) Scale 1" = 3 ft.

BORING 3 (CONTINUED)

25'0"

MEDIUM DENSE FINE SAND &
INORGANIC SILT5
7
7
6S#6, FROM 25'0" TO 27'0"
RECOVERED 22"

27'0"

WATER LEVEL 13'0"

SIZE OF AUGERS 3-3/4" I.D. LENGTH 25'0"

DRILLER: S. WOJCULEWICZ, INSPECTOR: B. KICKAM

DATE STARTED & COMPLETED: 3-9-87

INSTALLED OBSERVATION WELL(2" PVC PIPE, 15'0" SLOTTED,
7'6" SOLID), 22'6" BELOW GROUND SURFACE.

All samples have been visually classified by EJD Unless otherwise specified, water levels noted were observed at completion of borings, and do not necessarily represent permanent ground water levels. Figures in right hand column indicate number of blows required to drive two-inch split sampler 6 inches using 140 lb. weight falling 30 inches \pm . Figures in column to left (if noted) indicate number of blows to drive casing one foot, using 300 lb. weight falling 24 inches \pm .

SHEET 2 of 2

37 LINDEN STREET

P.O. BOX 67

MEDFORD, MA 02155-0001

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To HALEY & ALDRICH, INC., CAMBRIDGE, MA Date MARCH 11, 1987 Job No 67189
 Location CEDAR, GUNHOUSE, AND E. FOXBORO STREETS, SHARON, MA (H&A #6278) Scale 1" = 3 ft.

BORING 4

GROUND SURFACE

FILL	1	S#1, FROM G.S. TO 2'0" RECOVERED 6"
	3	
	4	
	4	
LOAM, SOME	16	S#2, FROM 5'0" TO 7'0" RECOVERED 13"
	24	
	18	
	18	
SAND, GRAVEL, COBBLES,	7	S#3, FROM 10'0" TO 12'0" RECOVERED 21"
	7	
	6	
	7	
MEDIUM DENSE	2	S#4, FROM 15'0" TO 17'0" RECOVERED 17"
	6	
	6	
	8	
FINE SAND & INORGANIC SILT	2	S#4, FROM 15'0" TO 17'0" RECOVERED 17"
	6	
	6	
	8	

7'6"

17'0" WATER LEVEL 6'0"

SIZE OF AUGERS 3-3/4" I.D. LENGTH 15'0"

DRILLER: S. WOICULEWICZ, INSPECTOR: B. KICKAM

DATE STARTED & COMPLETED: 3-9-87

INSTALLED OBSERVATION WELL(2" PVC PIPE, 10'0" SLOTTED,
 7'6" SOLID), 15'0" BELOW GROUND SURFACE.

All samples have been visually classified by HJD Unless otherwise specified, water levels noted were observed at completion of borings, and do not necessarily represent permanent ground water levels. Figures in right hand column indicate number of blows required to drive two-inch split sampler 6 inches using 140 lb. weight falling 30 inches \pm . Figures in column to left (if noted) indicate number of blows to drive casing one foot, using 300 lb. weight falling 24 inches \pm .

SHEET 1 of 1

PROJECT: WATER LEVEL INVESTIGATION

LOCATION: SHARON, MASSACHUSETTS

CLIENT: TOWN OF SHARON

CONTRACTOR: CARR-DEE CORP.

DRILLER: STAN WOICULEVICZ INSPECTOR: B. KICKHAM

INSTALLATION DATE 6 MARCH 1987

FILE NO. 51627800

WELL NO. OW-B1

BORING NO. B1

LOCATION SEE PLAN

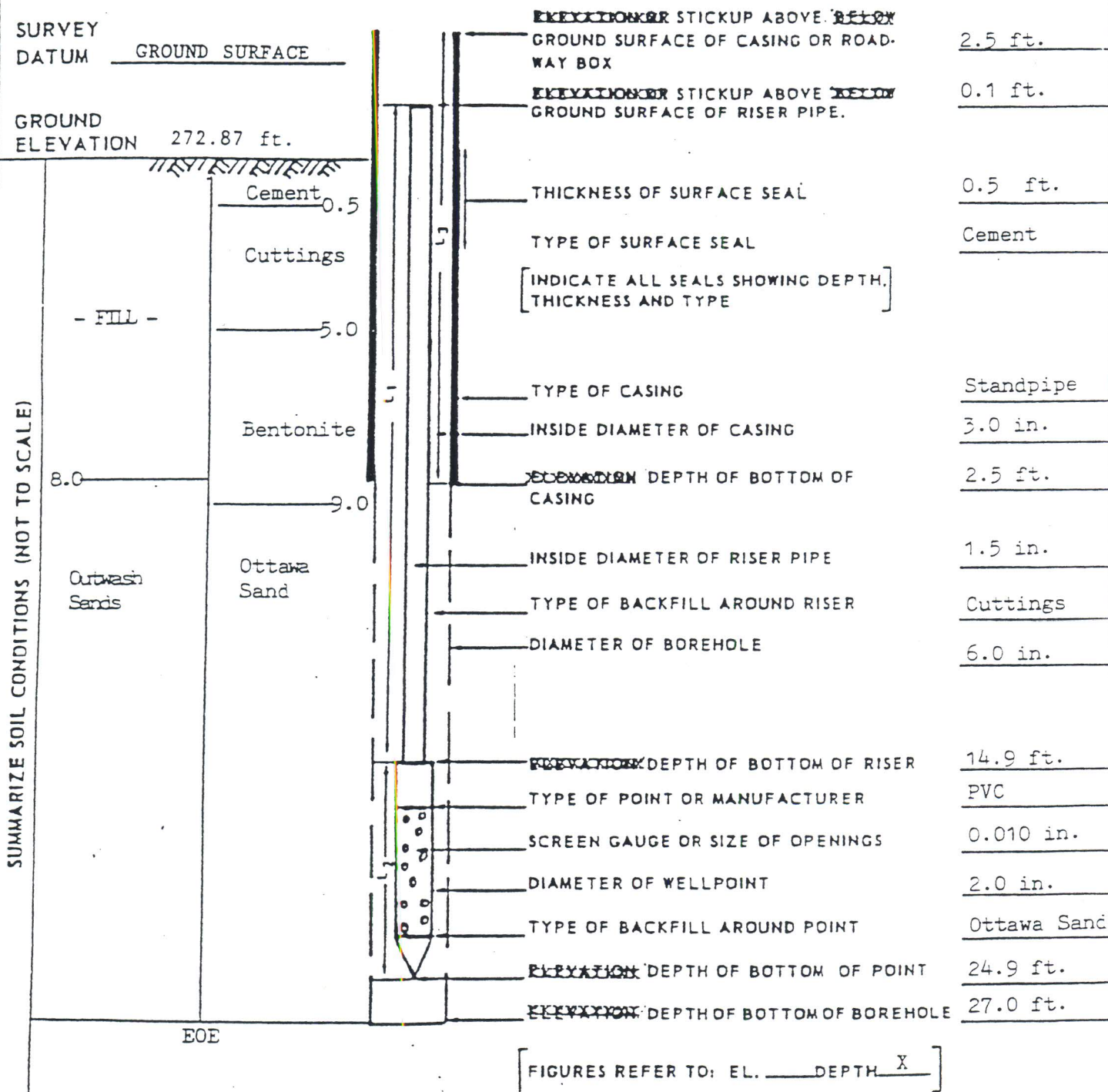
SHEET 1 OF 1

SURVEY

DATUM GROUND SURFACE

GROUND
ELEVATION 272.87 ft.

SUMMARIZE SOIL CONDITIONS (NOT TO SCALE)



$$\left[\frac{5.0 \text{ ft.}}{\text{LENGTH OF CASING } (L_2)} \right] + \left[\frac{15.0 \text{ ft.}}{\text{LENGTH OF RISER PIPE } (L_1)} \right] + \left[\frac{10.0 \text{ ft.}}{\text{LENGTH OF POINT } (L_3)} \right] = \frac{25.0 \text{ ft.}}{\text{PAY LENGTH}}$$

GROUND WATER MONITORING REPORT

ELEVATION MINUEND 272.87 ft.

FILE NO 51-5278-00

PAGE NO. 7

[illegible]

PROJECT: WATER LEVEL INVESTIGATION

FILE NO. 51627800

LOCATION: SHARON, MASSACHUSETTS

WELL NO. OW-B2

CLIENT: TOWN OF SHARON

BORING NO. B2

CONTRACTOR: CARR-DEE CORP.

LOCATION SEE PLAN

DRILLER: STAN WOICULEVICZ INSPECTOR: B. KICKHAM

INSTALLATION DATE 6 MARCH 1987

SHEET 1 OF 1

SURVEY

DATUM GROUND SURFACE

GROUND
ELEVATION 265.92 ft.

SUMMARIZE SOIL CONDITIONS (NOT TO SCALE)

- FILL -

Cement

0.5

Cuttings

9.0

Bentonite

11.0

9.5

Ottawa
SandOutwash
Sands~~ELEVATION~~ STICKUP ABOVE ~~GROUND~~GROUND SURFACE OF CASING OR ROAD-
WAY BOX

2.3 ft.

~~ELEVATION~~ STICKUP ABOVE ~~GROUND~~
GROUND SURFACE OF RISER PIPE.

1.8 ft.

THICKNESS OF SURFACE SEAL

0.5 ft.

TYPE OF SURFACE SEAL

Cement

[INDICATE ALL SEALS SHOWING DEPTH,
THICKNESS AND TYPE]

TYPE OF CASING

Standpipe

INSIDE DIAMETER OF CASING

3.0 in.

~~ELEVATION~~ DEPTH OF BOTTOM OF
CASING

2.5 ft.

INSIDE DIAMETER OF RISER PIPE

2.0 in.

TYPE OF BACKFILL AROUND RISER

Cuttings

DIAMETER OF BOREHOLE

6.0 in.

~~ELEVATION~~ DEPTH OF BOTTOM OF RISER

11.0 ft.

TYPE OF POINT OR MANUFACTURER

PVC

SCREEN GAUGE OR SIZE OF OPENINGS

0.010 in.

DIAMETER OF WELLPOINT

2.0 in.

TYPE OF BACKFILL AROUND POINT

Ottawa Sand

~~ELEVATION~~ DEPTH OF BOTTOM OF POINT

21.0 ft.

~~ELEVATION~~ DEPTH OF BOTTOM OF BOREHOLE

22.0 ft.

EOE

[FIGURES REFER TO: EL. _____ DEPTH X]

5.0 ft.

[LENGTH OF CASING (L₃)]

25.0 ft.

[LENGTH OF RISER PIPE (L₁)]

+

10.0 ft.

[LENGTH OF POINT (L₂)]

=

35.0 ft.

[PAY LENGTH]