

## TEST BORING LOG

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

**PROJECT** W.R. GRACE & CO.-CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G1S

**DATE STARTED** 6/22/83 **COMPLETED** 6/22/83 **SURF. ELEV.**

COMPLETED

6/22/83

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8340

**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 4" CASING

## TEST BORING LOG

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603-224-0020

PROJECT W.R. GRACE &amp; CO- CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MA.

DATE STARTED 6/13/83

COMPLETED

6/17/83

HOLE NO. G1D

COMPLETED

SURF. ELEV.

GROUND WATER

JOB NO. 8340

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 4" and 3" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
					TOPSOIL .6'
5.0'					Light brown, moist, medium-dense, fine to medium SAND and fine to coarse GRAVEL, trace silt
	8-13	1		5'-7'	
	14-15				
	15-13	2		'7-9'	
	13-14				
10.0'					Olive-brown, moist, dense to very dense SILT, some embedded fine to coarse gravel, cobbles, little embedded fine to coarse sand 7.0'
	21-30	3		11'-13'	
	32-37				
	31-36	4		13'-15'	
	45-54				
15.0'					
	15-36	5		17'-19'	
	65-79				
20.0'					
	5-9	6		24'-26'	25.0'
	33-45				
25.0'					Light brown, wet, very dense, medium to fine SAND, some fine to coarse gravel, little silt
					TOP OF ROCK @ 34.5'
30.0'					Run - 1 34.5' - 37.0' RQD = 0
					Recovery 1.0' - 40%
					Weathered broken ROCK 37.0'
25.0'					NOTE: Set 3" casing to 36.0'
40.0'					

## TEST BORING LOG

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603-224-0020

**PROJECT** W. B. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WOBURN, MA.

HOLE NO. 612

**DATE STARTED** 6/13/83

**COMPLETED** 6/17/83

**SURF. ELEV.**

## **GROUND WATER**

Job No. 8340

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"

BORING MADE WITH 4" AND 3" CASTINGS

SHEET 2 OF 2

## TEST BORING LOG

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

**PROJECT W.R. GRACE & CO.-CRYOVAC DIVISION**

**LOCATION** WASHINGTON ST., WOBURN, MA.

**DATE STARTED** 6/14/83 **COMPLETED** 6/14/83

## **GROUND WATER**

HOLE NO. C2S

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 4" CASING

## TEST BORING LOG

**PROJECT** W. R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA

**DATE STARTED** 6/14/83

**COMPLETED**

6/14/83

CON-TEC., INC.  
P.O. BOX 1153  
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603-224-0020

HOLE NO. 32M

SURF. ELEV.

JOB NO. 8340

## **GROUND WATER**

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"

BORING MADE WITH 4" CASING

SHEET 1 OF 1

## TEST BORING LOG

CON-TEC., INC.  
P.O. BOX 1153  
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603-224-0020

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MA.

DATE STARTED 6/10/83 COMPLETED 6/14/83

HOLE NO. G2D

GROUND WATER 6/13 - 7a.m. - 7'

SURF. ELEV.  
JOB NO. 8340

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 4" AND 3" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'	3-4	1		0'-2'	TOPSOIL .2'
	5-4				
	4-12	2		2'-4'	
	13-16				Brown, dry, loose to dense, fine to coarse SAND, fine to coarse GRAVEL, COBBLES, BOULDERS
	23-23	3		4'-6'	little silt 4.0'
10.0'	25-40				
	16-37	4		6'-8'	Light brown, dry, dense to very dense, coarse to fine SAND and fine to coarse GRAVEL
	35-27				
	13-14	5		8'-10'	
	10-12				10.0'
15.0'	8-10	6A		10'-11.5'	
	10-12	6B		11.5'-12'	Light brown, wet, medium-dense, fine to medium SAND, little fine to medium gravel, trace silt
	11-18	7A		12'-13'	
	14-16	7B		13'-14'	11.5'
	8-10	8		14'-16'	Light brown, wet, medium-dense, medium to fine SAND and medium to fine GRAVEL 18.5'
20.0'	11-10				
	10-11	9		16'-18'	Light brown, wet, dense to very dense SILT, fine SAND and embedded fine to coarse GRAVEL
	7-15				
	14-21	10		18'-20'	18.5'
	23-21				21.5'
25.0'	21-33	11		20'-22'	Light gray-brown, moist, very dense SILT, some embedded fine to coarse gravel, trace embedded fine to medium sand 24.0'
	31-37				
					Olive-brown, wet, stiff CLAY, little embedded fine to coarse gravel, cobbles
	6-5	12			Top of Rock @ 29.0'
30.0'	6-6				Drilled with rock bit to 29.5'
					Run - 1 29.5' - 34.5' RQD = 87%
					Recovery 4.6' - 92%
					Gray-green GRANODIORITE with quartz stringers 34.5'
35.0'					Run - 2 34.5' - 39.5' RQD = 100%
					Recovery 5.0' - 100%
					Gray-green GRANODIORITE with quart stringers 39.5'
40.0'					

## TEST BORING LOG

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**PROJECT W.F. GRACE & CO. - CRYOVAC DIVISION**

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. 62D

DATE STARTED 6/10/83

**COMPLETED**

6/14/83

**SURF ELEV**

## **GROUND WATER**

JOB NO. 8340

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 4" AND 3" CASING

## TEST BORING LOG

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603-224-0020

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G3S

**DATE STARTED** 6/21/83

**COMPLETED** 6/22/83

6/22/83

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8340

**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 4" CASING

## TEST BORING LOG

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PROJECT W.R. GRACE &amp; CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MA.

HOLE NO. G3D

DATE STARTED 6/17/83 COMPLETED 6/21/83

SURF. ELEV.

GROUND WATER 6/21 - 7a.m. - 18.5' CASING @ 39.3'  
HOLE @ 56.4'

JOB NO. 8340

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 4" and 3" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		4-3	1	0-2'	TOPSOIL .5'
		6-7			
		3-3	2A	2'-3'	Brown, dry, loose, fine to coarse SAND, little silt, little fine to medium gravel, trace ashes 4.0'
		4-21	2B	3'-4'	
		22-52	3	4'-5'	
10.0'		31-33	4	6'-7.5'	Brown, dry, very dense, fine to coarse GRAVEL, some fine to coarse sand
		49			
		51	5	8'-8.5'	
		25-50	6A	10'-11.3'	
		64/.3			10.5'
15.0'					Olive-gray, moist, very dense SILT, little fine to coarse sand, little fine to coarse gravel 14.0'
		20-21	7A	15'-16'	
		19-21	7B	16'-17'	
		9-26	8	17'-19'	
		38-56			
20.0'		73-50	9A	19'-19.5'	Yellow-gray, dry, dense, fine to coarse SAND, little fine to medium gravel
		46			
					19.0'
					Light brown, wet, very dense, fine to medium SAND, SILT and fine to coarse GRAVEL
					24.0'
25.0'		12-10	10	25'-27'	Light brown, wet, medium-dense, coarse to fine SAND and SILT
		9-8			
					30.0'
					Olive-brown, wet, very dense, fine to medium SAND, fine to coarse GRAVEL, COBBLES, BOULDERS, little silt
35.0'		25	11	30.5'-31'	
		25/00			
40.0'		717.3	12	35.4'-35.7'	TOP OF ROCK @ 38.6'
					Drilled with rock bit to 39.3'

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LOCATION WASHINGTON ST., WOBURN, MA.

HOLE NO. G3D

DATE STARTED 6/17/83 COMPLETED 6/21/83

SURF. ELEV.

GROUND WATER SEE PAGE 1

JOB NO. 8340

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

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
45.0'					Run - 1 39.3' - 44.3' RQD = 90% Recovery 4.9' - 98% Gray-green GRANODIORITE 44.3'
50.0'					Run - 2 44.3' - 49.3' RQD = 75% Recovery 4.0' - 80% Gray-green GRANODIORITE 49.3'
55.0'					Run - 3 49.3' - 53.2' RQD = 128% Recovery 4.4' - 113% Gray-green GRANODIORITE 53.2'
60.0'					Run - 4 53.2' - 56.4' RQD = 97% Recovery 3.7' - 116% Gray-green GRANODIORITE 56.3'
65.0'					Run - 5 56.4' - 61.4' RQD = 97% Recovery 4.9' - 98% Gray-green GRANODIORITE 61.4' BOTTOM OF BORING 61.4'
					NOTE: 1. Core size = NX 2. Coring time in rock - 5 min/ft.; no water loss. 3. Installed 63.6' of 2" PVC riser pipe in borehole; bottom 15' section is slotted.

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PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

DATE STARTED 8/28/84 COMPLETED

HOLE NO. G-3DB

GROUND WATER 8/29 - CASING @ 31'; HOLE @ 36' - 18.9'  
9/4 - CASING @ 36'; HOLE @ 89.5' - 21'

JOB NO. 8447

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 3

BORING MADE WITH 4" & 3" CASING: NO WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
30.0'					Drilled without sampling to top of rock
32.0'					TOP OF ROCK
35.0'					Drilled with roller bit from 32' to 36' Set 3" casing to 36'
36.0'					Run - 1 36' - 37.4' RQD - 0
40.0'					Recovery 1.1' - 79%
44.0'					Light gray, medium grained GRANODIORITE
45.0'					37.4'
46.0'					Drilled with roller bit to 38.0'
48.0'					Run - 2 38' - 44' RQD - 75%
50.0'					Recovery 5.9' - 98%
52.0'					Light gray, medium grained GRANODIORITE
53.0'					44.0'
54.0'					Run - 3 44' - 53.8' RQD - 82%
56.0'					Recovery 9.7' - 99%
58.0'					Light gray, medium grained GRANODIORITE
59.0'					53.8'
60.0'					Run - 4 53.8' - 63.5' RQD - 91%
62.0'					Recovery 9.0' - 93%
64.0'					Light gray, medium grained GRANODIORITE
65.0'					63.5'

## TEST BORING LOG

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PROJECT W.R. GRACE &amp; CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

HOLE NO.G-3DB

DATE STARTED 8/28/84 COMPLETED

SURF. ELEV.

GROUND WATER 9/6 - CASING @ 36'; HOLE @ 100'-19.8'  
9/7 - 20.5'

JOB NO. 8447

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 3

## NQ WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
70.0'					Run - 5 63.5'-69.0' RQD - 100% Recovery 5.5'-100% Light gray, medium grained GRANODIORITE with quartz and pink feldspar stringers 69.0'
75.0'					Run - 6 69.0'-74.0' RQD - 100% Recovery 5.7'-114% Light gray, medium grained GRANODIORITE with quartz and pink feldspar stringers 74.0'
80.0'					Run - 7 74.0'-80.2' RQD - 32% Recovery 6.2'-100% Light gray, broken, medium grained GRANODIORITE 80.2'
85.0'					Run - 8 80.2'-88.5' RQD - 25% Recovery 8.3'-100% Light gray, broken, medium grained GRANODIORITE with quartz and pink feldspar stringers 88.5'
90.0'					Run - 9 88.5'-94.0' RQD - 85% Recovery 5.2'-95% Light gray, broken, medium grained GRANODIORITE with quartz and pink feldspar stringers 94.0'
95.0'					Run - 10 94.0'-100.0' RQD - 89% Recovery 5.5'-92% Light gray, broken, medium grained GRANODIORITE with quartz and pink feldspar stringers 100.0'
100.0'					BOTTOM OF BORING 100.0'

## TEST BORING LOG

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**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

**LOCATION** WASHINGTON ST., WOBURN, MASS.

HOLE NO. G-3D3

**DATE STARTED** 8/28/84 **COMPLETED**

SURF. ELEV.

**GROUND WATER** See pg. 1 & 2

JOB NO. 8447

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 3 OF 3

## TEST BORING LOG

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

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G4S

**DATE STARTED** 6/9/83

**COMPLETED**

6/9/83

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8340

**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 4" CASTING

## TEST BORING LOG

**CON-TEC., INC.  
P.O. BOX 1153  
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603-224-0020**

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G4D

**DATE STARTED** 6/7/83

**COMPLETED**

6/9/83

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8340

**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 4" CASTING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
	3-15	1		0-2'	
	13-20				Brown, dry, medium-dense to very dense, fine
	15-41	2		2'-3.5'	to medium SAND, SILT and coarse to fine
	200				GRAVEL, COBBLES, BOULDERS
5.0'					
10.0'	23	3		9.5'-11.5'	
	30-30				Light brown, wet, very dense, fine SAND, some
	50-100	4		11.5'-13.5'	embedded fine to coarse gravel, little silt
	110-77				
	34-90	5		13.5'-15.5'	
15.0'	51-60				
	63-81	6		15.5'-17.5'	
	150-100				
	56				
20.0'					
	27-35	7		20'-22'	
	103-61				
25.0'	21-100/0	8		24'-24.5'	Gray-brown, wet, dense, coarse to fine SAND and fine to medium GRAVEL, trace silt
					TOP OF ROCK @ 24.5'
					Run - 1 24.5' - 29.5' RQD = 40%
					Recovery 4.2' - 84%
					Gray-green GRANODIORITE 29.5'
30.0'					Run - 2 29.5' - 34.5' RQD = 63%
					Recovery 4.2' - 84%
					Gray-green GRANODIORITE 34.5'
35.0'					Run - 3 34.5' - 39.5' RQD = 87%
					Recovery 5.0' - 100%
					Gray-green GRANODIORITE 39.5'
40.0'					

## TEST BORING LOG

**CON-TEC., INC.  
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**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G4D

**DATE STARTED** 6/7/83

**COMPLETED** 5/9/83

5/9/83

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8340

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 4" CASING

## TEST BORING LOG

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

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G5S

**DATE STARTED** 6/23/83

**COMPLETED**

6/23/83

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8340

**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 4" CASING

## TEST BORING LOG

CON-TEC., INC.  
P.O. BOX 1153  
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603-224-0020

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST, WOBURN, MA.

HOLE NO. Q5D

DATE STARTED 6/9/83 COMPLETED 6/9/83

SURF. ELEV.

GROUND WATER

JOB NO. 8340

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 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'				4.5'-6.5'	Brown, dry, SAND, SILT, GRAVEL, COBBLES and BOULDERS
	10	1			4.0'
	10-10				
	9-9	2		6.5'-8.5'	Olive-brown, wet, medium-dense, fine to medium SAND, some silt, little embedded fine to medium gravel
	8-6				
	4-8	3		8.5'-10.5'	
10.0'	10-12			10.5'-12.5'	
	8-5	4			
	4-15				
	67-8	5		12.5'-14.5'	
	12-17				
15.0'	43-21	6		14.5'-16.5'	
	27-27				
	32-12	7		16.5'-18.5'	
	8-12				
	12-100	8			
20.0'	64-50/0	9		18.5'-19'	Top of Rock @ 19.5'
				19'-19.5'	Run - 1 19.5' - 24.5' RQD = 57%
					Recovery 4.8' - 96%
					Green-gray GRANDIORITE 24.5'
25.0'					Run - 2 24.5' - 29.5' RQD = 60%
					Recovery 4.8' - 96%
					Green-gray GRANDIORITE 29.5'
30.0'					Run - 3 29.5' - 34.5' RQD = 67%
					Recovery 5.0' - 100%
					Green-gray GRANDIORITE 34.5'
35.0'					Run - 4 34.5' - 39.5' RQD = 80%
					Recovery 4.6' - 92%
					Green-gray GRANDIORITE 39.5'
40.0'					BOTTOM OF BORING 39.5'

## TEST BORING LOG

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**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G5D

**DATE STARTED** 6/9/83 **COMPLETED** 6/13/83

**COMPLETED** 6/13/83

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8340

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

## TEST BORING LOG

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

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G7S

**DATE STARTED** 6/23/83 **COMPLETED** 6/23/83

SURF. ELEV.

## GROUND WATER

JOB NO. 8340

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 4" CASING

## TEST BORING LOG

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

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G7D

**DATE STARTED** 6/15/83 **COMPLETED** 6/16/83

**SURF. ELEV.**

**GROUND WATER** 6/16 - 7a.m. - 7.0' HOLE @ 39'

JOB NO. 8340

**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 4" CASING

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

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		2-5	1	0'-2'	Brown, dry, medium-dense, fine to coarse GRAVEL, COBBLES, some fine to coarse sand, little silt
		9-14		2'-4'	
		14-29	2		
		33-41			
		37-49	3	4'-6'	Light brown, dry, very dense, fine to coarse GRAVEL and fine to coarse SAND
10.0'		51-57			
		50/0 :			
		29-11	4	8'-10'	
		11-23			Wet @ 8'
15.0'		12-29	5	10'-11.4'	
		20/.4-50/0			Olive-brown, moist, very dense SILT, some embedded fine to coarse gravel, trace embedded fine to coarse sand (occasional 1/8" - $\frac{1}{4}$ " layers of fine to medium sand)
		18-24	6	12'-14'	
		21-27			
		18-18	7	14'-16'	
20.0'		20-59			
		75/.3-50/0		16'-16.3'	
		29-42	8		
		29-17		18'-20'	
25.0'		29-42			
		47		24'-25.5'	(Note: No sample recovery 16'-16.3' & 24'-25.5')
					Top of rock @ 28.5'
					Drilled with rock bit to 29.5'
					Run - 1 29.5' - 34.5' RQD = 13%
30.0'					Recovery 4.5' - 90%
					Broken, pink-gray-green GRANODIORITE 34.5'
					Run - 2 34.5' - 39.0' RQD = 37%
					Recovery 4.7' - 104%
					Broken, pink-gray-green GRANODIORITE 39.0'
40.0'					

## TEST BORING LOG

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

**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G7D

**DATE STARTED** 6/15/83

**COMPLETED** 6/15/83

**SURF. ELEV.**

**GROUND WATER** SEE PAGE 1

JOB NO. 8340

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

## TEST BORING LOG

**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

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

**LOCATION** WASHINGTON ST., WOBURN, MA.

HOLE NO. G30W

**DATE STARTED** 6/24/83

**COMPLETED**

6/30/83

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8340

**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

BORTING MADE WITH 4" CASTING

## TEST BORING LOG

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON ST., WOBURN, MASS.

**HOLE NO. G-93**

**DATE STARTED** 8/28/84 **COMPLETED**

SURF. ELEV.

**GROUND WATER DEPTH ON COMPLETION - 6.0'**

JOB NO. 8447

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"

BORING MADE WITH 4" CASING

SHEET 1 OF 1

## TEST BORING LOG

**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

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

LOCATION WASHINGTON ST., WOBURN, MASS.

**HOLE NO. G-10S**

**DATE STARTED** 9/10/84

**COMPLETED** 9/11/84

**SURF. ELEV.**

**GROUND WATER** 9/11 = 7 am = 6.0'

JOB NO. 8447

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 4" CASING**

## TEST BORING LOG

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

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

HOLE NO.G-10D

DATE STARTED 9/17/84

COMPLETED 9/19/84

SURF. ELEV.

GROUND WATER 9/24 - 7.1'

JOB NO. 8447

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 4" & 3" CASING; NQ WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
					Drilled without sampling to top of rock @ 22.0'
25.0'					Run - 1 22.2' - 24.5' RQD - 30% Recovery 2.0' - 37%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 24.5'
30.0'					Run - 2 24.5' - 34.3' RQD - 65% Recovery 9.3' - 95%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 34.3'
35.0'					Run - 3 34.3' - 35.0' RQD - 0 Recovery 0 35.0'
					*Run - 4 35' - 36' RQD - 31% Recovery 1.6' - 160%
40.0'					Gray, fine grained GRANODIORITE with occasional quartz stringers 36.0'
					Run - 5 36' - 44.5' RQD - 50% Recovery 8.2' - 96%
45.0'					Gray and pink medium to coarse grained GRANODIORITE with quartz stringer 44.5'
					BOTTOM OF BORING 44.5'
					*1. Core broken while drilling 2. Coring time in rock averaged 3 to 6 min/ft; no water loss. 3. Installed 47' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

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

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

DATE STARTED 9/11/84 COMPLETED 9/17/84

HOLE NO. G-10DB

SURF. ELEV.

GROUND WATER 9/12 - 7am - 7.1' 9/24 - 7.1'  
9/14 - 7am - 6.6'

JOB NO. 8447

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 3

BORING MADE WITH 4" & 3" CASING; NQ WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
					Drilled without sampling to top of rock @ 23.0'
25.0'					Run - 1 23.7' - 29.5' RQD - 25%
		:			Recovery 5.6' - 97%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 29.5'
30.0'					Run - 2 29.5' - 34.0' RQD - 49%
		:			Recovery 4.7' - 104%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 34.0'
35.0'					Run - 3 34.0' - 42.9' RQD - 38%
		:			Recovery 8.7' - 98%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 42.9'
40.0'					Run - 4 42.9' - 49.5' RQD - 73%
		:			Recovery 6.3' - 95%
					Gray, fine grained GRANODIORITE with occasional quartz stringers 49.5'
45.0'					Run - 5 49.5' - 54.5' RQD - 47%
		:			Recovery 5.1' - 102%
					Gray to pink, fine to coarse grained GRANODIORITE with quartz stringers 54.5'
50.0'					Run - 6 54.5' - 64.4' RQD - 56%
		:			Recovery 10.0' - 101%
					Gray and pink medium grained to coarse grained GRANODIORITE
55.0					
60.0					

## TEST BORING LOG

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

PROJECT W.R. GRACE &amp; CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

HOLE NO. G-100B

DATE STARTED 9/11/84

COMPLETED 9/17/84

SURF. ELEV.

GROUND WATER See pg. 1

JOB NO. 8447

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 3

## NO WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
65.0'					64.4'
					Run - 7 64.4' - 74.2' RQD - 70%
					Recovery 9.6' - 98%
					Gray and pink, medium grained to coarse grained GRANODIORITE with occasional quartz stringers
70.0'					74.2'
					Run - 8 74.2' - 83.7' RQD - 61%
					Recovery 9.9' - 104%
					Gray and pink, medium grained to coarse grained GRANODIORITE with occasional quartz stringers
80.0'					83.7'
					Run - 9 83.7' - 93.6' RQD - 70%
					Recovery 9.9' - 100%
					Gray and pink, medium grained to coarse grained GRANODIORITE with occasional quartz stringers
90.0'					93.6'
					Run - 10 93.6' - 100' RQD - 91%
					Recovery 6.4' - 100%
					Gray and pink, medium grained to coarse grained GRANODIORITE with occasional quartz stringers 100.0'
95.0'					
100.0'					

## **TEST BORING LOG**

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON ST., WOBURN, MASS.

**HOLE NO.G-10DB**

**DATE STARTED** 9/11/84

**COMPLETED** 9/17/84

SURF. ELEV.

**GROUND WATER** See pg. 1

JOB NO. 8447

**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 3 OF 3

NQ WIRE LINE CORE

## **TEST BORING LOG**

**PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION**

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

**LOCATION** WASHINGTON ST., WOBURN, MASS.

HOLE NO. G-11S

**DATE STARTED** 8/30/04

**COMPLETED** 9/1/84

**SURF. ELEV.**

**GROUND WATER DEPTH ON COMPLETION = 17.0'**

JOB NO. 8447

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 4" & 3" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MASS.

**HOLE NO. G-11D**

**DATE STARTED** 9/4/84 **COMPLETED**

SURF. ELEV.

**GROUND WATER DEPTH ON COMPLETION - 17.0'**

JOB NO. 8447

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 4" & 3" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
25.0'					Drilled without sampling to refusal @ 24.0'
25.0'					TOP OF ROCK 24.0'
30.0'					Drilled with roller bit to 30'.
35.0'					Run - 1 30' - 35' RQD - 60%
35.0'					Recovery 5.0' - 100%
35.0'					Gray and pink, medium to coarse grained GRANODIORITE with occasional quartz stringers 35.0'
40.0'					Run - 2 35' - 40' RQD - 89%
40.0'					Recovery 3.6' - 72%
40.0'					Gray and pink, medium to coarse grained GRANODIORITE with occasional quartz stringers 40.0'
45.0'					Run - 3 40' - 44' RQD - 85%
45.0'					Recovery 4.8' - 120%
45.0'					Gray and pink, medium to coarse grained GRANODIORITE with occasional quartz stringers 44.0'
					BOTTOM OF BORING 44.0'
					Note: 1. Coring time in rock 5 to 9 min/ft.; slight water loss.
					2. Installed 45' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

**PROJECT** W.R. GRACE & CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON ST., WOBURN, MASS.

HOLE NO. G-12S

**DATE STARTED** 9/17/84      **COMPLETED** 9/18/84

**SURF. ELEV.**

**GROUND WATER DEPTH ON COMPLETION - 18.5'**

JOB NO. 8447

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

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

SHEET 1 OF 1

**BORING MADE WITH 4" CASING**

## TEST BORING LOG

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

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

DATE STARTED 9/12/84 COMPLETED 9/14/84

HOLE NO. G-12D

SURF. ELEV.

GROUND WATER DEPTH ON COMPLETION - 17.5'

JOB NO. 8447

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

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		3-10	1	0'-2'	TOPSOIL .5'
		18-14			
		15-16	2	2'-4'	Light brown, dry, dense fine to medium SAND, little fine to medium gravel, little silt 4.0'
		7-6			
		2-76	3A	4'-4.5'	
10.0'		38	3B	4.5'-5.5'	Brown, moist, loose SILT, trace fine to medium sand 4.5'
		16-75/.3	4	6'-6.9'	
		49-100	5	10'-11'	Light brown, dry, very dense fine to medium SAND, trace fine to medium gravel 5.5'
15.0'					
		42-90	6	15'-17'	Light gray-brown, dry, very dense fine to coarse SAND, trace fine to medium gravel 8.5'
20.0'		62-50			
		32-70	7	20'-22'	Gray, moist, very dense fine to coarse SAND and SILT, trace fine to medium gravel 14.0'
25.0'		85-85			
		100/.5	8	25'-25.5'	Light brown, wet, very dense fine to medium SAND, trace fine gravel TOP OF ROCK 25.5'
30.0'					Drilled with roller bit to 27.5'
					Run - 1 27.5' - 32.5' RQD - 100%
					Recovery 4.0' - 80%
					Gray, fine grained GRANODIORITE 32.5'
					Run - 2 32.5' - 36.5' RQD - 98%
35.0'					Recovery 4.8' - 120%
					Gray, medium grained GRANODIORITE 36.5'
					Run - 3 36.5' - 41.5' RQD - 93%
					Recovery 4.2' - 84%
40.0'					

## **TEST BORING LOG**

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON ST., WOBURN, MASS.

**HOLE NO. G-12D**

**DATE STARTED** 9/12/84

**COMPLETED** 9/14/84

**SURF. ELEV.**

**GROUND WATER DEPTH ON COMPLETION - 17.5'**

JOB NO. 8447

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

NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON ST., WOBURN, MASS.

**DATE STARTED** 10/3/84      **COMPLETED** 10/4/84

**GROUND WATER DEPTH ON COMPLETION - 14.5'**

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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

DATE STARTED 10/1/84 COMPLETED 10/4/84

HOLE NO. GO-1D

SURF. ELEV.

GROUND WATER DEPTH ON COMPLETION - 14.5'

JOB NO. 8447

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 4" & 3" CASING; NQ WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
					Drilled without sampling to top of rock
20.0'					19.0'
					Run - 1 19.0' - 25.1'
					Recovery 5.9' - 97%
					Light gray, medium grained GRANODIORITE 25.1'
25.0'					Run - 2 25.1' - 30.3'
					Recovery 5.3' - 102%
					Light gray, medium grained GRANODIORITE 30.3'
30.0'					Run - 3 30.3' - 38.0'
					Recovery 7.8' - 101%
					Light gray, medium grained GRANODIORITE 38.0'
35.0'					Run - 4 38.0' - 39.3'
					Recovery 1.2' - 92%
					Light gray, medium grained GRANODIORITE 39.3'
40.0'					BOTTOM OF BORING 39.3'
					Note: 1. Coring time in rock 3 to 6 min/ft.; no water loss.
					2. Installed 42' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

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

PROJECT W.R. GRACE & CO. - CRYOVAC DIVISION

LOCATION WASHINGTON ST., WOBURN, MASS.

HOLE NO. GO-1DB

DATE STARTED 9/25/84 COMPLETED 10/1/84

SURF. ELEV.

GROUND WATER 9/26 - 14.3' CASING @ 19'; HOLE @ 34.5'  
9/27 - 14.0' CASING @ 19'; HOLE @ 60.5'  
10/1 - 14.1' CASING @ 19'; HOLE @ 60.5'  
N-NO OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

JOB NO. 8447

C-NO. OF BLOWS TO DRIVE

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

SHEET 1 OF 2

BORING MADE WITH 4" & 3" CASING; NQ WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		3-11	1	0'-2'	TOPSOIL .3'
		19-18			
		26-24	2	2'-4'	Light brown, dense to very dense fine to coarse GRAVEL and medium to fine SAND 4.0'
		30-41			
		26-34	3A	4'-6'	
		39-48	3B		
		46-56	4	6'-7.3'	Light gray-green, moist, very dense SILT and fine SAND, little embedded fine to coarse gravel
		75/.3			
10.0'		29-56	5	10'-11.3'	
		75/.3			
15.0'					
		12-16	6	15'-17'	Light brown, wet, medium dense fine to medium SAND, little embedded fine to coarse gravel, trace silt 17.0'
		12-12			
20.0'					
					TILL 19.0'
					Drilled in rock with roller bit to 19.3'
					Run - 1 19.3' - 26.8' RQD - 32%
25.0'					Recovery 7.3' - 97%
					Light gray, medium grained GRANODIORITE 26.8'
					Run - 2 26.8' - 34.5' RQD - 70%
					Recovery 7.7' - 100%
30.0'					Light gray, medium grained GRANODIORITE 34.5'
					Run - 3 34.5' - 44.4' RQD - 90%
					Recovery 9.7' - 98%
					Light gray and pink coarse grained GRANODIORITE
35.0'					
40.0'					

## TEST BORING LOG

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

PROJECT W.R. GRACE &amp; CO. - CRYOVAC DIVISION

HOLE NO. GO-1DB

LOCATION WASHINGTON ST., WOBURN, MASS.

SURF. ELEV.

DATE STARTED 9/25/84

COMPLETED 10/1/84

JOB NO. 8447

GROUND WATER See pg. 1

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

NO WIRE LINE CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
45.0'					
45.0'					44.4'
					Run - 4 44.4' - 49.1' RQD - 100%
					Recovery 4.2' - 89%
					Light gray and pink coarse grained -
					GRANODIORITE 49.1'
50.0'					
55.0'					Run - 5 49.1' - 54.5' RQD - 66%
					Recovery 5.6' - 96%
					Light gray and pink coarse grained
					GRANODIORITE 54.5'
60.0'					Run - 6 54.5' - 60.6' RQD - 62%
					Recovery 5.5' - 90%
					Light gray and pink coarse grained
					GRANODIORITE 60.6'
65.0'					Run - 7 60.6' - 70.6' RQD - 74%
					Recovery 9.9' - 99%
					Light gray and pink coarse grained
					GRANODIORITE
70.0'					70.6'
75.0'					BOTTOM OF BORING 70.6'
					Note: 1. Coring time in rock 3 to 6 min/ft.; No water loss.
					2. Installed 73' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** Manhole

DATE STARTED 10/10/65

**COMPLETED** 10/10/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8563

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 4" CASING

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 13S

**DATE STARTED** 9/25/85      **COMPLETED** 9/26/85

**COMPLETED** 9/26/85

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8563

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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. 13D

DATE STARTED 9/12/85 COMPLETED 9/25/85

SURF. ELEV.

GROUND WATER DEPTH ON COMPLETION - 16.0'

JOB NO. 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		27-7	1	0-2'	ASPHALT .2'
		11-10			
		8-10	2	2'-4'	Light brown; dry, medium dense, fine to medium SAND, trace fine gravel, trace silt 3.0'
		22-45			
		50-76	3	4'-5.4'	
10.0'		120/.4			
		100-100/.4	4	6'-6.9'	Light brown, dry, very dense coarse to fine SAND, some medium to fine gravel, occasional cobbles, trace silt 6.0'
		:			
		100/0		8'	
15.0'		22-31	5	10'-12'	Gray, dry, very dense, fine to meidum SAND, some coarse to fine gravel, cobbles, little silt
		50-46			
		30-100/.4	6	12'-12.9'	
		47-52	7	14'-15.4'	
20.0'		100/.4			
		37-68	8	16'-17.4'	
		100/.4			
		87-64	9	18'-19.4'	
		75/.4		20'-21.4'	
25.0'		16-42	10		
		75/.4			
					TOP OF ROCK @ 25.8'
30.0'		14-75/.4	11	25'-25.9'	Run - 1 29.0' - 32.6' RQD-69%
					Recovery - 3.5' - 97% 32.6'
					Run - 2 32.6' - 42.5' RQD-86%
					Recovery 9.2' - 93%
35.0'					
40.0'					

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** 13D

**DATE STARTED** 9/12/85      **COMPLETED** 9/25/85

### SURF ELEV

**GROUND WATER DEPTH ON COMPLETION = 16.0'**

JOB NO 8563

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

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** 14D

**DATE STARTED** 10/1/85

**COMPLETED** 10/3/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		26-11	1	0-2'	ASPHALT .2'
		8-10		2'-4'	Light brown, dry, medium dense, fine SAND, trace fine to medium gravel 2.0'
		10-10	2		
		11-15			
		45-98	3	4'-6'	
10.0'		105-99		6'-6.8'	Light brown, dry, medium dense to very dense, fine to medium SAND, little to some fine to coarse gravel 7.0'
		125-132/.3	4		
		15-12	5	8'-10'	
		11-9			
		17-15	6	10'-12'	Light gray-brown, moist, medium to dense SILT and fine SAND, little embedded fine to medium gravel 14.0'
15.0'		13-17		12'-14'	
		14-19	7		
		22-21			
		13-25	8	14'-16'	
		92-33			
20.0'		38-40	9	16'-18'	Light gray-brown, moist, very dense, SILT, little embedded fine to coarse gravel, little embedded fine sand
		87-120			
		50/0		18'	
		18-17	10	20'-22'	TOP OF ROCK 22.7'
		13-9			
25.0'					Run - 1 22.7' - 30.7' RQD-60%
					Recovery 7.9' - 99%
30.0'					
35.0'					
40.0'					

39.7'

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO. 14D**

**DATE STARTED** 10/1/85      **COMPLETED** 10/3/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

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

NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 15S

**DATE STARTED** 10/2/85      **COMPLETED** 10/2/85

SURE ELEV

## **GROUND WATER**

**JOB NO.** 8563

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 CASTING

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** 15D

**DATE STARTED** 9/26/85      **COMPLETED** 10/1/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 4" CASING: NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		4	1	.5'-1.1'	CONCRETE .5'
		75/.1			
		12-15	2	2'-4'	Brown, dry, loose, SILT and fine SAND 1.1'
		12-27			
		25-46	3	4'-5.1'	CONCRETE 1.8'
10.0'		75/.1			
		54-50	4	6'-8'	
		43-38			
		18-12	5	8'-10'	Light brown, dry, medium to dense, fine to medium SAND, little fine to coarse gravel, cobbles 4.0'
		8-10			
15.0'		18-75	6	10'-12'	Light gray-brown, dry, very dense SILT and fine to medium SAND, little embedded fine to coarse gravel, occasional cobble 8.0'
		110-77			
		69-97	7	12'-13.5'	
		89			
		28-30	8	14'-16'	
20.0'		32-43			
		38-43	9	16'-18'	
		44-48			
		85-75/.4	10	18'-18.9'	
		18-23	11		
25.0'		26-38		20'-22'	
					TOP OF ROCK 23.9'
					Run - 1 26.1' - 31.1' RQD-37%
					Recovery 4.7' - 94%
30.0'					31.1'
					Run - 2 31.1' - 40.5' RQD-61%
					Recovery 9.7' - 103%
35.0'					
40.0'					

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 15D

**DATE STARTED** 9/26/85

**COMPLETED**

10/1/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

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

NX CORE

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. B-16S

DATE STARTED 10/12/85 COMPLETED 10/22/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		17-18		0'-2'	ASPHALT .3'
		14-14			
		8-8	1	2'-4'	Olive-brown, dry, medium dense, fine SAND, SILT and coarse to fine GRAVEL, trace cobbles 4.0'
		13-25			
		13-8	2	4'-6'	
10.0'		8-5			
		4-7	3	6'-8'	Light brown, wet, medium dense, fine to medium SAND, trace fine to medium gravel, occasional cobbles, trace silt
		18-13			
		10-30	4	8'-10'	
		27-11			
15.0'		5-7	5	10'-12'	
		8-10			12.0'
		30-45	6	12'-13.8'	
		51-75/.3			
		75/0		14'	
20.0'		69-73	7	15'-17'	Light brown, moist, very dense, fine to medium SAND, little embedded fine to coarse gravel, cobbles, little silt
		25-41			
		75/.4	8	17'-17.4'	
		75/0			18.0'
		30-43	9		
25.0'		55-27		19'	COBBLES @ 18' to 20'
				20'-22'	Gray, moist, very dense SILT, little embedded fine to coarse gravel, cobbles, trace embedded fine to medium sand
		27-75/.4	10	25'-25.9'	
30.0'					TOP OF ROCK @ 29.6'
					DRILLED WITH ROLLER BIT TO 32.0'
					BOTTOM OF BORING 32.0'
					Note: 1. No sample recovered at at 0-2'.
					2. Installed 30' of 2" PVC riser pipe in borehole; bottom 10' section is slotted.

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. 16D

DATE STARTED 10/25/85 COMPLETED 10/29/85

SURF. ELEV.

GROUND WATER 10/29- 7A.M. - 7.0' Hole @ 47.8'

JOB NO. 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
35.0'					Drilled without sampling to rock at 37.5'
40.0'					37.5' Run - 1 37.8' - 38.8' RQD-0% Recovery 1.0' - 100% 39.0'
45.0'					Run - 2 38.8' - 47.8' RQD-91% Recovery 8.9' - 99% 47.8'
50.0'					Run - 3 47.8' - 57.3' RQD-75% Recovery 8.1' - 85% 57.3' Run - 4 57.3' - 60.0' RQD-137% Recovery 4.1' - 152% 60.0'
55.0'					BOTTOM OF BORING 60.0' Note: 1. Coring time in rock averaged 3 to 5 min./ft; no water loss.
60.0'					2. Rock type- Gray, medium grained GRANODIORITE 3. Installed 59.5' of 1½" PVC riser pipe in bore; hole; bottom 15' section is slotted.

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. B-17S

**DATE STARTED** 10/17/85 **COMPLETED** 10/18/85

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8563

**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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. 17D

DATE STARTED 10/11/85 COMPLETED 10/17/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 3

## BORING MADE WITH 9" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		11-9	1	0'-2'	ASPHALT .2'
		8-12			
		13-27	2	2'-4'	Olive-brown, moist, medium dense SILT, little embedded fine to medium gravel, little embedded fine sand 2.0'
		33-42			
		20-40	3	4'-6'	
		40-47			
		17-20	4	6'-8'	
		25-23			
		21-42	5	8'-10'	
		50-63			
10.0'		100/.3	6	10'-10.3'	
		17-52	7	12'-14'	
		69-69			
		100/.4	8	14'-14.4'	
15.0'					
		19-24	9	16'-17.4'	
		100/.4	10	18'-20'	
		31-69			
		35-105			
20.0'		100/0		20'	BOULDER 20' - 21.1'
25.0'		25-32	11	25'-27'	
		21-40			
30.0'					COBBLES
		28-30	12		
		60-50/.1			
35.0'					
		50/0			
40.0'					

Note: Drilled open hole from 9' to 35'; at 35' hole began to cave in: possibly sand and gravel layer from 33' to 38'

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.B-17D**

**DATE STARTED** 10/11/85      **COMPLETED** 10/17/85

SURF. ELEV.

## **GROUND WATER**

JOB NO. 8563

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 3

BORING MADE WITH 4" CASING; NX CORE

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.B-17D**

**DATE STARTED** 10/11/85

**COMPLETED** 10/17/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8563

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 3 OF 3

BORING MADE WITH 4" CASING: NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 18S

**DATE STARTED** 10/9/85      **COMPLETED** 10/9/85

SURF. ELEV.

## **GROUND WATER**

**JOB NO.** 8563

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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. B-18D

DATE STARTED 10/1/85 COMPLETED 10/7/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		5	1	.5'-2.5'	ASPHALT .4'
		6-6			
		9-16	2	2.5'-3.1'	Light brown, dry, medium dense to very dense SILT, some embedded fine to coarse gravel, little embedded fine to medium sand 6.0'
		50/.1			
		20-27	3	4'-6'	
10.0'		34-41		6'-8'	
		62-36	4		
		36-25			
		18-41	5	8'-10'	Light brown, moist, very dense fine to medium SAND, little silt, little embedded fine to coarse gravel 8.0'
		41-41			
15.0'				13'-15'	Olive-brown, moist, very dense SILT, little embedded fine to coarse gravel, cobbles, trace embedded fine to medium sand 17.0'
		21-27	6		
		40-43			
20.0'		100/.3	7	18'-18.3'	Olive-gray, moist, very dense SILT and fine SAND, little embedded fine to coarse gravel, cobbles
25.0'		128	8	23'-23.5'	
30.0'		106	9	28'-28.5'	
35.0'		100/.1		TOP OF ROCK 33.0'	
40.0'				Run - 1 33.1' - 38.1' RQD-88%	
				Recovery 4.7' - 94%	

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN

**HOLE NO.B-18D**

**DATE STARTED** 10/1/85

**COMPLETED** 10/7/85

10/7/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

**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

NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. B-19S

**DATE STARTED** 11/6/85

**COMPLETED**

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

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 4" CASING

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. B-19M

**DATE STARTED** 11/4/85                    **COMPLETED** 11/6/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO 8563

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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. E-19D

DATE STARTED 10/30/85 COMPLETED 11/4/85

SURF. ELEV.

GROUND WATER 11/4- 7A.M. - 8.0' Hole @ 75.0'

JOB NO. 8563

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 3

BORING MADE WITH 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		-5	1	.5'-2'	ASPHALT .3'
		6-6			
		5-7	2	2'-4'	
		6-8			
		8-10	3	4'-6'	
10.0'		12-12			
		14-14	4	6'-8'	
		19-19			
		19-14	5	8'-10'	Sample wet @ 8.5' 9.0'
		15-16			
15.0'		8-20	6	10'-12'	
		44-49			
		24-28	7	12'-14'	
		32-39			
		26-29	8	14'-16'	
20.0'		34-37			
		16-24	9	16'-18'	
		32-41			
		22-37	10	18'-20'	
		36-48			
25.0'		44-75/.4	11	20'-20.9'	
		52	12	24.5'-25.3'	Gray, moist, very dense SILT, some embedded fine to coarse gravel, trace embedded fine to medium sand, occasional cobbles
30.0'		75/.3			
		21	13	29.5'-31.5'	
35.0'		22-42			
		48			
		88	14	34.5'-36.5'	
40.0'		36-41			
		54			

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. B-19D

DATE STARTED 10/30/85 COMPLETED 11/4/85

SURF. ELEV.

GROUND WATER 11/4- 7A.M. - 8.4'

JOB NO. 8563

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 3

BORING MADE WITH 4" CASING: NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
45.0'					NX CORE- 39.2' - 42.2' Recovery 1.0' COBBLES and GLACIAL TILL 42.2'
	28-51	15		45'-46.2'	Gray, wet, very dense SILT, some embedded fine to coarse gravel, cobbles, trace embedded fine to medium sand 49.0'
	78/2				
50.0'	41-103	16		50'-51'	Orange-brown, moist, very dense SILT, little embedded fine to medium gravel, little fine sand 54.0'
55.0'	100/3	17		55'-55.3'	Brown, very dense, weathered rock 58.5'
60.0'					Hard rock- drilled with roller bit to 60.0'
					Run - 1 60.0' - 62.5' RQD-0%
					Recovery 2.5' - 100% 62.5'
65.0'					Run - 2 62.5' - 63.7' RQD-0%
					Recovery 1.2' - 100% 63.7'
70.0'					Drilled into highly fractured and weathered rock with roller bit
75.0'					75.0'
					BOTTOM OF BORING 75.0'

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO. B-19D**

**DATE STARTED** 10/30/85      **COMPLETED** 11/4/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8563

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 3 OF 3

NX CORE

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** B-20S

**DATE STARTED** 10/25/85      **COMPLETED** 10/25/85

**COMPLETED** 10/25/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO 8563

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 4" CASING**

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** B-20M

**DATE STARTED** 10/24/85      **COMPLETED** 10/24/85

SURF. ELEV.

**GROUND WATER DEPTH ON COMPLETION = 4.5'**

**JOB NO.** 8563

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 4" CASTING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. B-20D

DATE STARTED 10/18/85 COMPLETED 10/23/85

SURF. ELEV.

GROUND WATER Depth after 48 Hours - 5.0'

JOB NO. 8563

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 3

BORING MADE WITH 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'	12-10	1		0-2'	ASPHALT .2'
	7-10				
	11-21	2		2'-4'	
	25-24				
	29-39	3		4'-6'	Light brown, dry, medium dense, fine SAND and SILT, little embedded fine to medium gravel 2.5'
	55-62				
	32-40	4		6'-8'	
	50-59				
	50/0			8'	Light brown, dry, medium dense SILT, little embedded fine to coarse gravel, little embedded fine to medium sand
	28-36	5		10'-12'	
10.0'	32-38			12'	
	50/0			14'-15'	
	30-90	6		16'	
	100/0			19'-19.4'	
	100/.4	7			
20.0'					23.0'
	44-38	8		24'-25.5'	Gray, moist, very dense SILT, little embedded fine to coarse gravel, trace embedded fine to medium sand, trace clay
25.0'	95				
	100	9		29'-29.5'	Brown-gray, wet, very dense, fine to medium SAND and SILT, little fine to coarse gravel
30.0'					29.0'
	100	10		34'-34.5'	
35.0'					36.0'
	100/.3	11		39'-39.3'	Gray, wet, very dense SILT, little embedded fine to coarse gravel, little embedded fine to medium sand

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

**HOLE NO.** B-20D

**DATE STARTED** 10/18/85      **COMPLETED** 10/23/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 3**

BORING MADE WITH 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
45.0'		80-1004	11	40'-40.9'	Gray, wet, very dense SILT, little embedded fine to coarse gravel, little embedded fine to medium sand
50.0'		100/.3		45'-45.3'	No sample recovery @ 45'
55.0'		101-100/4	13	50'-50.9'	Orange-brown, wet, very dense, fine to medium SAND and SILT, little fine to medium gravel
60.0'		125	14	55'-55.5'	
65.0'		100/.3		60'-60.3'	No sample recovery
70.0'		100		65'	TOP OF ROCK
75.0'					63.5'
80.0'					Run - 1 65' - 71.5' RQD - 12% Recovery 6.5' - 100%
					Run - 2 71.5' - 75' RQD - 0% Recovery 3.5' - 100%
					71.5'
					75.0'
					Drilled with roller bit to 85'

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET, WOBURN, MA.

HOLE NO. B-20D

**DATE STARTED** 10/18/85 **COMPLETED** 10/23/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

**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 3 OF 3

NX CORE

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 21S

**DATE STARTED** 10/10/85      **COMPLETED** 10/10/85

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8563

**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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO.B-21D

DATE STARTED 10/7/85 COMPLETED 10/10/85

SURF. ELEV.

GROUND WATER DEPTH AFTER 13 HOURS - 20.5'

JOB NO. 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		2-7	1	0'-2'	TOPSOIL 1.0'
		20-17			
		12-22	2		Light brown, dry, medium dense to very dense fine to medium SAND, SILT and fine to coarse GRAVEL
		12-7			
		7-23	3		
10.0'		41-55		2'-4'	
		45-50	4		
		61-87			
		69-76	5		Light brown, dry, very dense, medium to fine SAND and fine to coarse GRAVEL, trace silt 7.0'
		86			
		22-32	6		
		46-55			
15.0'		52-50	7	4'-6'	Light brown, dry, very dense, medium to fine SAND, little fine to coarse gravel, cobbles
		60-49			
		40-51	8		
		56-83			
		72-57	9		
20.0'		45-100/4		6'-8'	
		21-35	10		
		27-21			
		35-40	11		Light brown, moist, very dense fine to medium SAND, some silt, little embedded fine to coarse gravel 18.0'
		50-60			
25.0'				14'-16'	
		108	12		Light brown, wet, very dense fine SAND 25.0'
30.0'				20'-22'	
35.0'				25'-25.5'	Light brown-gray, wet, very dense fine to medium SAND, little silt, little embedded fine to coarse gravel
					TOP OF ROCK 28.0'
					Run - 1 29.0' - 34.0' RQD-68%
					Recovery 4.2' - 84% 34.0'
40.0'					Run - 2 34.0' - 36.5' RQD-28%
					Recovery 4.2' - 84% 36.5'

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

HOLE NO. B-21D

**DATE STARTED** 10/7/85

COMPLETED

10/10/85

SURE ELEV

## **GROUND WATER**

JOB NO. 8563

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 34"**

SHEET 2 OF 2

BORING MADE WITH 4" CASING; NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** 22S

**DATE STARTED** 9/4/85      **COMPLETED** 9/6/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		1-9	1	0-2'	TOPSOIL .3'
		11-14			
		12-15	2	2'-4'	Light brown-gray, moist, medium dense, fine SAND, trace fine to medium gravel, trace silt 2.0'
		12-14			
		11-31	3	4'-6'	
		42-91			
10.0'		84-89	4	6'-7.2'	Light brown, moist, medium dense, fine to medium SAND, little fine to coarse gravel 4.5'
		100/.2			
		42-75/.4	5	8'-8.9'	
		73-75/.4		10'-10.9'	Light brown, dry, very dense, medium to fine SAND and coarse to fine GRAVEL, COBBLES 13.0'
		21-63		12'-13.4'	
15.0'		100/.4			
		26	7	15.5'-17.5'	COBBLES and coarse to fine GRAVEL 15.0'
		32-37			
		51-34	8	17.5'-19.5'	Light brown, wet, very dense, fine to medium SAND, trace fine to coarse gravel
20.0'		32-37			
		46			
		11-22	9	20'-22'	
		27-27			
25.0'					23.0'
		16-43	10	25'-27'	Olive-brown, wet, very dense, SILT, little embedded fine to coarse gravel, little embedded fine to medium sand
		47-65			
30.0'					
		21-50	11	30'-32'	TOP OF ROCK 32.2'
		80-83			Drilled with roller bit to 33.0'
35.0'					BOTTOM OF BORING 33.0'
					Note: Installed 34.8' of 2" PVC riser pipe in borehole; bottom 15' section is slotted.
40.0'					

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO. B-22D

DATE STARTED 9/9/85 COMPLETED 9/12/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
30.0'					Drilled without sampling to bedrock
					TOP OF ROCK 32.5'
					Run - 1 32.8' - 36.7' RQD-0
					Recovery 3.2' - 82% 36.7'
35.0'					Run - 2 36.7' - 41.3' RQD-26%
					Recovery 4.0' - 87% 41.3'
40.0'					Run - 3 41.3' - 46.1' RQD-0
					Recovery 2.6' - 54% 46.1'
45.0'					Run - 4 46.1' - 52.8' RQD-45%
					Recovery 4.6' - 67% 52.8'
50.0'					BOTTOM OF BORING 52.8'
55.0'					Note: 1. Coring time in rock averaged 8 to 10 min/ ft; no water loss.
					2. Rock type- Gray, broken, medium grained GRANODIORITE
					3. Installed 52.7' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

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

**PROJECT** W.R. GRACE - CRYOVAC DIVISION

**LOCATION** WASHINTON STREET - WOBURN, MA

**HOLE NO.**B-23S

**DATE STARTED** 10/10/85      **COMPLETED** 10/15/85

**SURF. ELEV.**

**GROUND WATER** Depth After 72 Hours - 20'

**JOB NO.** 8563

**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 4" CASING**

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		75/0		.5'	ASPHALT .3'
		56-75/.1	1	2'-2.6'	
		28-45	2	4'-5.6'	
		57-75/.1			
		67-90	3		
		75/1			
		32-75/.4	4		
10.0'					
		24-25	5	6'-7.1'	
		40-43			
		750			
				8'-8.9'	
				10'-12'	
15.0'		56-47	6	12'	
		43-59			
				14'-16'	
20.0'		28-32	7		
		33-29			
				19'-21'	
25.0'		15/.4-50/0			
				24'-24.4'	
30.0'					
35.0'					
40.0'					

Note: 1. No sample recovery from 24' to 24.4'.

2. Installed 26' of 2" PVC riser pipe in borehole; bottom 10' section is slotted.

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

HOLE NO. B-23D

**DATE STARTED** 10/15/85 **COMPLETED** 10/18/85

**SURF. ELEV.**

**GROUND WATER** DEPTH ON COMPLETION = 18.0'

JOB NO 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
25.0'					Drilled without sampling to refusal @ 24.0' .
30.0'					Run - 1 25.0' - 28.0' RQD = 0 Recovery 1.0' - 33% Cored Boulder from 25'-26'
40.0'					TOP OF ROCK 27.0' Run - 2 30.0' - 38.0' RQD = 65% Recovery 7.5' - 94% 38.0' Run - 3 38.0' - 47.5' RQD = 81% Recovery 9.7' - 102%
50.0'					BOTTOM OF BORING 47.5' Note: 1. Coring time in rock averaged 6 to 10 min/ft; lost all water while drilling at 27.5'; never regained. 2. Rock type-Gray and pink, medium-grained GRANODIORITE. 3. Installed 47.5' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

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

LOCATION WASHINGTON STREET, WOBURN, MA.

HOLE NO. B-24S

DATE STARTED 10/1/85 COMPLETED 10/2/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL	
5.0'		5-8	1	0'-2'	Light brown, dry, medium dense, fine SAND, SILT, and fine GRAVEL	
		12-8				
		41-25	2	2'-4'		
		20-60				
		52-77	3	4'-5.2'		
10.0'		100/2		6'	Light brown, dry, very dense fine to medium SAND, and coarse to fine GRAVEL, COBBLES, little silt	
		75/0				
		75/0				
		43-48	4	8'		
		44-34				
15.0'				10'-12'	Light brown, moist, very dense fine to medium SAND, little embedded fine to coarse gravel, little silt	
		66-67	5			
20.0'		95		15'-16.5'		
		23-33	6			
25.0'		44-61		20'-22'		
		65-110	7			
30.0'				25'-26'		
					Note: 1. Hole too crooked to core.	
					2. Installed 28.5' of 2" PVC riser pipe in bore-hole; bottom 10' section is slotted .	

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

**HOLE NO.** B-24D

**DATE STARTED** 10/2/85      **COMPLETED** 10/7/85

**SURF. ELEV.**

**GROUND WATER** DEPTH AFTER 72 HOURS - 12.5'

**JOB NO.** 8563

**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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
25.0'					Drilled without sampling to top of weathered rock at 23.0'
					TOP OF ROCK @ 23.0'
					Run - 1 27.5' - 31.5' RQD=0%
					Recovery 2.7' - 68% 31.5'
30.0'					Run - 2 31.5' - 41.5' RQD=75%
					Recovery 10.0' - 100% 41.5'
35.0'					Run - 3 41.5' - 47.5' RQD=37%
					Recovery 5.4' - 90% 47.5'
40.0'					BOTTOM OF BORING 47.5'
45.0'					Note: 1. Coring time in rock averaged 8 to 12 min./ft.; no water loss.
50.0'					2. Rock Type- Gray, medium grained GRANODIORITE with occasional quartz stringers.
					3. Installed 49' of 1½" PVC riser pipe in borehole; bottom 15' section is slotted.

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA

**HOLE NO.** B-25S

**DATE STARTED** 10/3/85 **COMPLETED** 10/4/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO. 8563**

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

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

**HOLE NO.** B-25D

**DATE STARTED** 10/4/85

**COMPLETED** 10/11/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
					Drilled without sampling to rock at 27.0'
30.0'					TOP OF ROCK @ 27.0'
					Run - 1 27.5' - 34.4' RQD=61%
					Recovery 6.8' - 99% 34.4'
					Run - 2 34.4' - 44.4' RQD=74%
					Recovery 9.7' - 97% 44.4'
					Run - 3 44.4' - 48.0' RQD=87%
					Recovery 3.8' - 106%
					48.0'
45.0'					BOTTOM OF BORING 48.0'
50.0'					Note: 1. Coring time in rock averaged 3-5 min./ft.; no water loss.
					2. Rock type- Pink and gray, medium to coarse grained GRANITE PEGMA-TITE
					3. Installed 47.5' of 1½" PVC riser pipe in bore-hole; bottom 15' section is slotted..

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET, WOBURN, MA.

**HOLE NO.** B-26S

**DATE STARTED** 9/19/85      **COMPLETED** 9/19/85

SURF. ELEV.

## **GROUND WATER**

**JOB NO.** 8563

**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

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO. B-26D**

**DATE STARTED** 9/12/85      **COMPLETED** 9/18/85

SURF. ELEV.

**GROUND WATER** **JOB NO.** 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
		2-6	1	0-2'	
		11-11		2'-	Light brown, dry, medium dense, medium to fine SAND, some coarse to fine gravel, cobbles
		75/0			
5.0'		34-38	2	4'-5.5'	
		75			
		75/0		6'-	
		.			
10.0'		13-12	3	8'-10'	
		18-23			Green-gray, moist, dense SILT, little embedded fine to medium gravel, trace embedded fine to medium sand
		23-28	4	10'-12'	
		21-18			
		10-17	5	12'-14'	
		23-28			
15.0'		7-11	6	14'-16'	
		16-18			
		15-26	7	16'-18'	
		33-30			
20.0'		21-28	8	18'-20'	
		30-42			
		14-16	9	20'-22'	
		15-11			TOP OF ROCK
25.0'					23.0'
				Run - 1	22.3' - 25.3' RQD=0%
				Recovery	2.0' - 100% 25.3'
				Run - 2	25.3' - 30.0' RQD=36%
				Recovery	4.4' - 88% 30.3'
30.0'				Run - 3	30.3' - 36.0' ROD=44%
				Recovery	5.1' - 89% 36.0'
35.0'				Run - 4	36.0' - 42.3' RQD=73%
				Recovery	4.6' - 73%
40.0'					

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

HOLE NO. 26D

**DATE STARTED** 9/12/85      **COMPLETED** 9/18/85

**COMPLETED** 9/18/85

SURF. ELEV.

## **GROUND WATER**

**JOB NO.** 8563

**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

## TEST BORING LOG

**PROJECT** W.R. GRACE - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOUBRN, MA

**HOLE NO.** 27S

**DATE STARTED** 9/30/85      **COMPLETED** 9/30/85

**SURF. ELEV.**

## **GROUND WATER**

SURF. ELEV.  
JOB NO. 8563

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 4" CASING

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** B-27D

**DATE STARTED** 9/19/85      **COMPLETED** 9/21/85

**SURF. ELEV.**

**GROUND WATER**

**JOB NO.** 8563

**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 4" CASING: NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'		1-3	1	0-2'	Light brown, dry, medium dense to very dense, fine to medium SAND, SILT, and coarse to fine GRAVEL, COBBLES
		7-8		2'-2.1'	
		75/.1		4'	
		75/.1		5'-7'	
		17-21	2	7'-9'	
		25-29		9'-11'	
		31-42	3	11'-13'	
		26-28		13'-15'	
		12-13	4		
		14-49			
10.0'		26-31	5	16'-18'	Green-gray, moist, very dense SILT, little embedded fine to coarse gravel, cobbles, trace embedded fine to medium sand
		30-28		18.5'-20.5'	
		37-36	6	20.5'-20.7'	
		42-68			
		40-46	7		
15.0'		37-56			TOP OR ROCK
		40	8		
		51-23			
		73-100/.2	9		
20.0'					20.7'
					Run - 1 21.3' - 26.3' RQD=80%
					Recovery 4.7' - 94% 26.3'
					Run - 2 26.3' - 29.0' RQD=74%
					Recovery 2.5' - 93% 29.0'
25.0'					Run - 3 29.0' - 34.5' RQD=73%
					Recovery 4.6' - 84% 34.5'
					Run - 4 34.5' - 40.5' RQD=100%
					Recovery 6.0' - 100%
30.0'					
35.0'					
40.0'					

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO.** B-27D

**DATE STARTED** 9/19/85

**COMPLETED** 9/21/65

**SURF. ELEV.**

## **GROUND WATER**

JOB NO. 8563

**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

NX CORE

## TEST BORING LOG

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

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

**LOCATION** WASHINGTON STREET, WOBURN, MA.

**HOLE NO.** B-28S

**DATE STARTED** 9/25/85 **COMPLETED** 10/1/85

HOLE NO. B-28S

## GROUND WATER

**JOB NO.** 8563

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 4" CASING

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

HOLE NO.B- 28D

DATE STARTED 9/23/85

COMPLETED 9/25/85

SURF. ELEV.

GROUND WATER

JOB NO. 8563

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 4" CASING; NX CORE

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'	6-7	1		0'-2'	ASPHALT .2'
	9-7				
	3-2	2		2'-4'	Light brown, dry, medium dense to loose, fine SAND, little silt, trace fine gravel 3.5'
	2-15				
	17-23	3		4'-6'	
10.0'	28-24				
	33-40	4		6'-8'	Light brown, dry, dense to very dense, fine to medium SAND, some fine to coarse gravel, cobbles, trace silt
	27-57				
	55-66	5		8'-10'	
	34-37				
15.0'	21-19	6		10'-11.8'	
	44-88/.3				
	36-78/.3	7		12'-12.8'	
	15-23	8		14'-16'	Brown-gray, moist, very dense, SILT and fine to medium SAND, little embedded fine to coarse gravel, cobbles
	21-21				
20.0'	18-23	9		16'-18'	
	61-16				
	13-23	10		18'-20'	
	33-25				
	19-21	11		20'-22'	TOP OF ROCK @ 25.0'
25.0'	30-28				Run - 1 25.0' - 29.5' RQD-57%
					Recovery 3.6' - 80% 29.5'
					Run - 2 29.5' - 30.5' RQD-75%
					Recovery 1.5' - 150% 30.5'
					Run - 3 30.5' - 35.5' RQD-37%
30.0'					Recovery 5.0' - 100% 35.5'
					Run - 4 35.5' - 39.5' RQD-18%
					Recovery 3.5' - 87% 39.5'
					Run - 5 39.5' - 41.7' RQD-76%
					Recovery 2.3' - 105% 41.7'
40.0'					

## TEST BORING LOG

**PROJECT** W.R. GRACE CO. - CRYOVAC DIVISION

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

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO. B-28D**

**DATE STARTED** 9/23/85

**COMPLETED** 9/25/85

**SURF. ELEV.**

## **GROUND WATER**

**JOB NO.** 8563

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

NX CORE

W. R. GRACE CO. - CRYOVAC DIVISION  
WASHINGTON STREET, WOBURN, MA.

WELL CONSTRUCTION DETAILS

WELL#	PVC	FILTER	GROUT	PVC
	SCREEN	SAND	SEAL	STICKUP
13S	17'-27'	14'-27.5'	0-14'	2.5'
13D	37'-52'	29'-52.2'	0-29'	3.5'
14S	11.8'-21.8'	9'-22'	0-9'	3.3'
14D	27.7'-42.7'	24'-42.7'	0-24'	2.7'
15S	13.8'-23.8'	10'-24.5'	0-10'	-.3'
15D	31.5'-46.5'	26'-46.5'	0-26'	-.3'
16S	20.1'-30.1'	15'-30.5'	0-15'	-.3'
16D	44.3'-59.3'	40'-60'	0-40'	-.3'
17S	37.2'-47.2'	30'-49.4'	0-30'	-.3'
17D	57'-72'	50'-72'	0-50'	-.3'
18S	21.8'-31.8'	18'-33.2'	0-18'	-.3'
18D	37'-52'	35'-53'	0-35'	-.3'
19S	10'-20'	6'-21'	0-6'	-.3'
19M	34.5'-44.5'	30'-52'	0-30'	-.3'
19D	58.8'-73.8'	56'-75'	0-56'	-.3'
20S	25'-35'	20'-35'	0-20'	-.3'
20M	48.4'-58.4'	44'-63.5'	0-44'	-.3'
20D	70'-85'	64'-85'	0-64'	-.3'
21S	18.9'-28.9'	15'-29'	0-15'	1.5'
21D	33'-48'	30'-49.5'	0-30'	2.0'
22S	17.4'-32.4'	14'-33'	0-14'	2.4'
22D	36.9'-51.9'	34.5'-52.8'	0-34.5'	.8'
23S	16'-26'	12'-26'	0-12'	-.3'
23D	32.5'-47.5'	29'-47.5'	0-29'	-.3'
24S	16'-26'	11'-26'	0-11'	2.5'
24D	32'-47'	28'-47.5'	0-28'	2.0'
25S	20.1'-30.1'	15'-30.4'	0-15'	-.3'
25D	32.5'-47.5'	28'-48'	0-28	-.3'
26S	11'-21'	6'-22.6'	0-6'	2.9'
26D	25'-40'	23'-42.3'	0-23'	.5'
27S	11.2'-21.2'	8.5'-22'	0-8.5'	1.8'
27D	25.5'-40.5'	23'-40.5'	0-23'	2.5'
28S	14.6'-24.6'	12'-25.4'	0-12'	3.4'
28D	29.5'-44.5'	27'-44.5'	0-27'	.9'

PROJECT	W.R. GRACE CO. - CRYOVAC DIVISION	603-224-0020	
LOCATION	WASHINGTON STREET - WOBURN, MA	HOLE NO. 29S	
DATE STARTED	1/9/86	COMPLETED 1/10/86	SURF. ELEV.
GROUND WATER	DEPTH ON COMPLETION - 2.4'	JOB NO. 8563	

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 4" CASING

## TEST BORING LOG

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

**PROJECT W.R. GRACE CO. - CRYOVAC DIVISION**

**LOCATION** WASHINGTON STREET - WOBURN, MA

**HOLE NO. 30S**

**DATE STARTED** 1/23/86 **COMPLETED** 1/23/86

**SURF. ELEV.**

**GROUNDWATER DRY ON COMPLETION**

JOB NO. 8563

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

## TEST BORING LOG

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION

LOCATION WASHINGTON STREET - WOBURN, MA

DATE STARTED 1/21/86 COMPLETED 1/21/86

GROUND WATER DEPTH ON COMPLETION - 6.5'

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"

HOLE NO. 32S

SURF. ELEV.

JOB NO. 8563

SHEET 1 OF 1

## BORING MADE WITH 4" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'	26-49	1		3'-5'	COBBLES and fine to coarse GRAVEL
	55-53			5'-5.7'	Light brown, dry, coarse to fine GRAVEL, COBBLES, and medium to fine SAND
	55-75/.2	2		7'-9'	
	10-10	3		9'-11'	
	11-17			11'-13'	Olive-brown, wet, medium dense to very dense SILT, some fine sand, little embedded fine to coarse gravel
	17-21	4		13'-15'	
	25-23			15'-15.8'	Olive-brown, wet, very dense SILT, little fine to medium sand, little embedded fine to coarse gravel, cobbles
	15-16	5		24-18	
	17-25			18-31	
	9-13	6		30-39	
10.0'	15-30			48-21	
	33-75/.3	7			
15.0'					
20.0'					
25.0'					
30.0'					

Note: Installed 27' of 2" PVC riser pipe in borehole; bottom 10' section is slotted.

## TEST BORING LOG

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION  
 LOCATION WASHINGTON STREET - WOBURN, MA  
 DATE STARTED 1/13/86 COMPLETED 1/17/86  
 GROUND WATER DEPTH ON COMPLETION - 6.2'  
 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 4" + 3" CASING

DEPTH	C.	N.	SPL. NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
5.0'	6-6	1		0-2'	TOPSOIL .3'
	12-24			2'-2.2'	
	75/.2			4'-6'	Light brown, moist, dense to very dense, fine SAND and SILT, little embedded fine to coarse gravel, occasional cobbles
	16-17	2		6'-6.3'	
	24-28			7'-8'	
	75/.3			8'-10'	
	32-34	3			
	24-27	4			
	34-44				
	32-51	5		10'-11.3'	
10.0'	75/.3				
	21-42	6		12'-14'	
	44-57			14'-15.8'	Olive-gray, moist, very dense SILT, some fine sand, little embedded fine to coarse gravel
	29-39	7			
	46-75/.3				
20.0'	50/0			16'	COBBLES- 16'-18'
	30-31	8		18'-19.6'	
	52-75/.1				
	96	9		20'-20.5'	
					BOULDER - 23.7'-25.7' 23.7'
25.0'					Run - 1 24.2' - 27.8'
					Recovery 1.8' - 50%
					BOULDERS
					TOP OF ROCK @ 27.8'
					Run - 2 27.8' - 33.0' RQD-92%
30.0'					Recovery 5.2' - 100% 33.0'
					Run - 3 33.0' - 43.0' RQD-99%
					Recovery 9.9' - 99%

## **TEST BORING LOG**

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

PROJECT W.R. GRACE CO. - CRYOVAC DIVISION  
LOCATION WASHINGTON STREET - WOBURN, MA  
DATE STARTED 1/13/86 . COMPLETED  
GROUND WATER DEPTH ON COMPLETION - 6-2'

**HOLE NO.** 31D  
**SURF. ELEV.**  
**JOB NO.** 856

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"**

**JOB NO.** 8563

SHEET 2 OF 2

NX Core