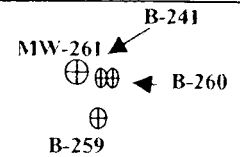


DRILLING LOG for Well #: MW-261S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Way land	Project Number:	143.68		
Client:	Raytheon	Logged by:	Jason Fernet		
Drilling Co:	Geosearch, Inc.	Driller:	A. Cox		
Date Started:	3-Dec-02	Date Finished:	3-Dec-02		
Location:	Way land, Massachusetts	Drilling Method:	4.25" ID HSA/Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	17'	Type:	PVC
Boring Depth:	26'	Well Depth:	22'	Boring Diam.:	8"
Surface Elev.:	127.28'	MP:	PVC	Depth to GW:	10.87'
		MP Elev.:	131.28'		

Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1		SAND	4,3,3,5		Top 15" brown organic soil, bottom 3" brown organic soil, some red/brown SAND.	S-1 0-2'	0.4	
2								
3		SAND	9,8,4,4		Top 8" brown organic soil, bottom 12": damp red/brown fine to medium SAND	S-2 2-4'	0.3	
4								
5		SILTY SAND	1,2,7,5		Top 1" red/brown fine to medium SAND, remaining 17" well sorted brown fine SAND and SILT.	S-3 4-6'	0.4	
6								
7		SANDY SILT	5,7,9,8		Top 4" medium brown Sand, some Silt remaining 14" red/brown to brown & gray SANDY SILT, 2 lenses (1/8") medium brown Sand.	S-4 6-8'	0.5	
8								
9		SANDY SILT	3,5,6,6		Saturated brown fine SAND SILT, little gray fine SAND and SILT	S-5 8-10'	0.3	
10								
11		SANDY SILT	2,4,5,8		Top 2" brown SAND and SILT, little gray fine SAND and SILT, next 3" brown medium sand, remaining 15" brown fine SAND and SILT.	S-6 10-12'	0.4	
12								
13		SANDY SILT	6,7,6,5		Brown-gray fine SAND and SILT, trace gray Clay interbeds, trace red/brown medium Sand.	S-7 12-14'	0.7	
14								
15		SANDY SILT	5,3,3,5		Top 3" brown SANDY SILT, bottom 15" gray SANDY SILT.	S-8 14-16'	14.0	
16								
17		SANDY SILT	5,3,4,5		Top 16" gray fine SAND and SILT, @ 5" from bottom 1/8" dark gray Clay lens, bottom 2" well sorted gray Sand & Silt.	S-9 16-18'	71.5	
18								
19		SANDY SILT	2,2,3,3		Top 10" gray SAND and SILT, multiple (2) 1/8" thick layer dark gray Clay interbeds, Sand and Silt between Clay layers, bottom 2" gray & red/brown Silty Sand.	S-10 18-20'	102.3	
20								
21		SILTY SAND	3,3,3,3		Top 5" gray & red/brown SILT and SAND, remaining 10" separated from above by 1/4" layer red/brown Sand.	S-11 20-22'	147.0	
22								
23		SAND	4,3,2,4		Fine brown SAND	S-12 22-24'	23.6	
24								
25		SAND	3,3,3,3		Top 12" fine brown SAND, thin layer red/brown SAND throughout, Bottom 3" gray fine Sand and Silt.	S-13 24-26'	3.9	

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Material

DRILLING LOG for Well #:

MW-261S



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) 1 ab Sample # & spoon/HS Analyses
				Well Construction Details 4" Steel Standpipe 0-13' Portland Cement-Bentonite Slurry Grout 13'-15' Bentonite Chip Seal 15'-22' #1 Silica Sand Filter Pack 17'-22' 0.010" Slotted PVC Well Screen 26' Bottom of Borehole		

DRILLING LOG for Well #: MW-262S

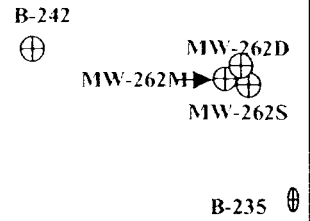


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.68
Client:	Raytheon	Logged by:	J. Fernet, C. Regan
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi, A. Cox
Date Started:	3-Dec-02	Date Finished:	3-Dec-02
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA
Screen Diam:	2"	5'	Slot Size: 0.010"
Casing Diam:	2"	20'	Type: PVC
Boring Depth:	25'	25'	Boring Diam.: 8"
Surface Elev.:	127.36'	PVC	Depth to GW: 8.19'
		129.60'	



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses	
2					<p>Well Construction Details:</p> <p>4" Steel Standpipe</p> <p>0'-16' Portland Cement and Bentonite Slurry Grout</p> <p>16'-18' Bentonite Chip Seal</p> <p>18'-25' #1 Silica Sand Filter Pack</p> <p>20'-25' 0.010" Slotted PVC Well Screen</p> <p>25' Bottom of Borehole</p>				
4									
6									
8									
10									
12									
14									
16									
18									
20									
22									
24									
						Bottom of Boring at 25' bgs			
						Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-262D			

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

DRILLING LOG for Well #: MW-262M

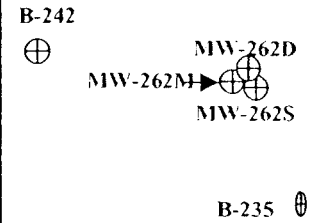


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143 68		
Client:	Raytheon	Logged by:	J. Fernet, C. Regan		
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi, A. Cox		
Date Started:	3-Dec-02	Date Finished:	3-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HAS		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	46'	Type:	PVC
Boring Depth:	51'	Well Depth:	51'	Boring Diam:	8"
Surface Elev.:	127.32'	MP:	PVC	Depth to GW:	12.89'
	MP Elev.:	130.52			









Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								
50								

Well Construction Details:

- 4" Steel Standpipe
- 0'-42' Portland Cement and Bentonite Slurry Grout
- 42'-44' Bentonite Chip Seal
- 44'-51' #1 Silica Sand Filter Pack
- 46'-51' 0.010" Slotted PVC Well Screen
- 51' Bottom of Borehole

Key to Well Construction

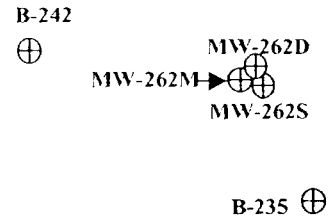
-  Sandpack
-  Well Screen
-  Grout
-  Bentonite Seal
-  Cement
-  Native Material

DRILLING LOG for Well #: MW-262D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68
Client:	Raytheon	Logged by:	J. Fernet, C. Regan
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi, A. Cox
Date Started:	3-Dec-02	Date Finished:	3-Dec-02
Location:	Wayland, Massachusetts	Drilling Method:	4 25" ID HSA/Drive and Wash
Screen Diam:	2"	5'	Slot Size: 0.010"
Casing Diam:	2"	71'	Type: PVC
Boring Depth:	77'	76'	Boring Diam.: 8"
Surface Elev.:	127.46'	PVC	Depth to GW: 11.35'
		129.86'	

Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses					
1		SAND	1,2,4,6	18"	Top 12" dark brown moist organic soil, bottom 6" medium to coarse moist brown SAND.	S-1 0-2'	0.5						
2			SAND	8,10,11,15	18"	Top 6" moist brown medium SAND, next 6" moist brown medium to fine SAND, bottom 6" dry green/gray, some red/brown Sand and Silt.	S-2 2-4'	3.0					
3							S-3 4-6'			4.5			
4				SAND & SILT	9,11,12,12	20"	Brown fine SAND and SILT, little gray fine SAND and SILT.	S-4 6-8'	2.4				
5								S-5 8-10'		2.6			
6					SAND & SILT	12,13,15,19	20"	Brown fine SAND and SILT, little red/brown & gray fine SAND and SILT, Clay lens @ 5" from bottom, @ 5" from top 1/2" layer of organic soil.	S-6 10-12'		1.7		
7									S-7 12-14'	3.2			
8						SAND & SILT	2,3,5,6	20"	Top 8" brown SANDY SILT, trace gray SANDY SILT, bottom 12" gray SANDY SILT, trace brown SANDY SILT.		S-8 14-16'	2.7	
9										S-9 16-18'	1.3		
10							SAND & SILT	4,5,7,7	20"	Gray SANDY SILT trace brown SANDY SILT in top 5", @ 5" from top 1/8" thick layer of orange Sand.		S-10 18-20'	1.7
11											S-11 20-22'	2.3	
12								SAND & SILT	6,5,7,6	18"	Gray SANDY SILT.		S-12 22-24'
13	S-12 22-24'											2.0	
14		SAND & SILT						1,2,4,4	12"	Gray SANDY SILT, @ 6" from top 1/4" thick layer of coarse gray Sand.			
15													
16			SAND & SILT					3,4,4,5	24"	Top 6" gray SANDY SILT, next 6" gray Silty Sand, bottom 12" gray SANDY SILT, @ 6" from bottom 1/2" thick dark gray Clay layer.			
17													
18				SAND				2,3,2,3	15"	Top 7" gray Sandy Silt, bottom 8" very fine gray SAND, trace Silt, well sorted.			
19													
20					SAND			1,1,1,1	10"	Fine gray SAND, trace Silt, well sorted.			
21													
22						SAND		2,3,3,4	18"	Fine gray SAND, trace Silt in bottom 2".			
23													
24													

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Material

DRILLING LOG for Well #:

MW-262D



ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
25	[Hatched pattern]	SAND	3.3.3.3	18"	Top 6" fine gray SAND, trace Silt, bottom 12" fine gray SAND. @ 8" from bottom 1/8" thick dark brown layer fine SAND.	S-12 24-26'	1.7	
26								
27		SAND	2.3.3.4	24"	Fine gray SAND, little coarse Sand, trace Silt, well sorted.	S-13 26-28'	0.5	
28								
29		SAND	3.2.3.3	15"	Top 10" fine gray SAND, little fine brown SAND, bottom 8" fine brown SAND, trace gray SAND.	S-14 28-30'	0.6	
30								
31		SAND	4.3.4.2	12"	Top 4" fine gray SAND, little fine brown SAND, bottom 8" fine brown SAND, trace gray SAND.	S-15 30-32'	0.5	
32								
33		SAND	4.5.5.4	18"	Top 3" brown & gray fine SAND well sorted, @ 3" from top 1" thick layer gray SAND, trace Silt, bottom 12" fine brown SAND, trace fine gray SAND.	S-16 32-34'	0.5	
34								
35		SAND	1.3.3.4	18"	Top 2" fine brown SAND, some gray SAND, remaining 16" fine well sorted gray SAND and Silt, @ 6" from top and 2" from bottom 2 small dark gray Clay lenses.	S-17 34-36'	0.5	
36								
37		SAND	5.4.3.6	24"	Top 16" well sorted fine gray SAND, trace Silt, bottom 8" gray Silty Sand, w 2 dark gray clay lenses @ 2" & 3" from bottom.	S-18 36-38'	0.6	
38								
39	SAND & SILT	4.3.3.4	24"	Well sorted gray SILTY SAND, dark gray 1/4" thick Clay lens @ 4" from bottom.	S-19 38-40'	0.6		
40								
41	SAND & SILT	5.3.4.5	12"	Top 6" well sorted gray SILTY SAND, bottom 6" well sorted fine gray Sand, trace Silt.	S-20 40-42'	0.5		
42								
43	SAND & SILT	5.4.4.6	24"	Top 2" well sorted fine gray Sand, trace Silt, next 10" well sorted gray SILTY SAND, bottom 12" well sorted gray fine SAND, trace Silt.	S-21 42-44'	0.5		
44								
45	SAND & SILT	5.3.3.4	24"	Top 2" fine gray Sand, trace Silt, remaining 22" well sorted gray SILTY SAND.	S-22 44-46'	0.5		
46								
47	SAND & SILT	4.6.6.6	24"	Well sorted gray SILTY SAND, @ 1" from top 1/8" thick layer dark gray Clay, @ 7" from top 1/8" thick dark gray Clay lens, @ 8" from bottom 1/8" thick gray Clay lens.	S-23 46-48'	0.5		
48								
49	SILT	9.9.7.7	18"	Gray SILT, trace fine Sand, 6 1/2" interbedded Clay layers throughout, well sorted.	S-24 48-50'	0.4		
50								
51	SILT	10, 13, 17, 17	18"	Top 16" gray SILT, some fine Sand, little Clay, well sorted, bottom 2" coarse Sand, fine Gravel, angular, poorly sorted.	S-25 50-52'	0.0		
52								
53	SAND	17,23,40,28	15"	Top 3" Gray Silt and Sand, trace fine to med SAND, Middle 5" medium to coarse SAND, gray, well sorted, compact, bottom 7" coarse SAND, fine/coarse Gravel, poorly sorted.	S-25 52-54'	0.0		
54								
55	GRAVEL	23,17,24,14	4"	Fine to coarse GRAVEL, some coarse Sand, poorly sorted. Finer material believed to be washed out.	S-26 54-56'	0.0		
56								
57	SAND &	6,23,25,20	10"	Gray medium to coarse SAND & GRAVEL, some medium GRAVEL, poorly sorted.	S-27 56-58'	0.0		

DRILLING LOG for Well #:

MW-262D ERM

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

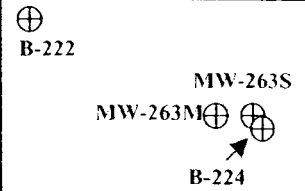
Depth	Well Log	Stratigraphy	Blew counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
59		SAND	24,28,26,28	13"	Gray fine SAND, little Silt. 1/4" Clay layer 4" from bottom, well sorted.	S-28 58-60'	0.0	
60		SAND	13,15,14,13	16"	Gray fine SAND, 1/2" Clay lens 2" from bottom.	S-29 60-62'	0.0	
61		SAND & SILT	19,21,23,71	14"	1' gray SILT & fine SAND, 2" coarse SAND & fine to medium Gravel, 2-3 Clay lenses throughout.	S-30 62-64'	0.0	
62		SAND	20,25,27,37	8"	Gray fine SAND, some Silt & Clay, some coarse SAND & medium to fine Gravel, poorly sorted.	S-31 64-66'	0.0	
63		SILT	26,25,25,23	9"	Gray SILT, some Clay, & coarse to fine Sand, some Gravel, poorly sorted.	S-32 66-68'	0.0	
64					No sample taken between 68 and 70' bgs	No Sample		
65		TILL	120 for 5"	1"	Coarse SAND & GRAVEL, trace Clay, fine SAND & Silt poorly sorted, mostly washed out (TILL).	S-33 70-72'	0.0	
66		TILL	75,111,59,70	12"	Top 6" GRAVEL, little Silt, Sand, Clay, poorly sorted, bottom 6" Gravel & coarse to fine Sand, Silt, Clay, poorly sorted, compact (TILL).	S-34 72-74'	0.0	
67		TILL	15,25,58,72	12"	Gray fine to coarse SAND & GRAVEL, trace Silt and Clay, poorly sorted.	S-35 74-76'	0.0	
68		<p>Well Construction Details</p> <ul style="list-style-type: none"> 4" PVC Standpipe 0-67' Portland cement-bentonite slurry grout 67-69' Bentonite chip seal 69-77' Sand filter pack 71-76' 0.010" slotted PVC well screen 77" Bottom of borehole 						

DRILLING LOG for Well #: MW-263S



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	C. Regan		
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi		
Date Started:	2-Dec-02	Date Finished:	2-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	20'	Type:	PVC
Boring Depth:	25'	Well Depth:	25'	Boring Diam.:	8"
Surface Elev.:	127.78'	MP:	PVC	Depth to GW:	11.35'
		MP Elev.:	127.96'		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
2					Well Construction Details: 4" Steel Standpipe 0'-16' Portland Cement and Bentonite Slurry Grout 16'-18' Bentonite Chip Seal 18'-25' #1 Silica Sand Filter Pack 20'-25' 0.010" Slotted PVC Well Screen 25' Bottom of Borehole			
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26					Bottom of Boring at 25' bgs			

Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-263M

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-263M

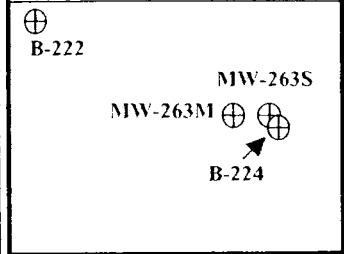


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68
Client:	Raytheon	Logged by:	C. Regan
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi
Date Started:	2-Dec-02	Date Finished:	2-Dec-02
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Length:	45'
Boring Depth:	50'	Well Depth:	50'
Surface Elev.:	125.38'	MP:	PVC
		MP Elev.:	127.77'
		Slot Size:	0.010"
		Type:	PVC
		Boring Diam.:	8"
		Depth to GW:	8.91'



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recover	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1		SAND	6.4,3.3	22"	5" Gray SAND, medium to coarse SAND. 14" brown soil, fine to medium SAND little Gravel some fine Sand, poorly sorted, damp.	S-1 0-2'	0.0	
2								
3		SAND	5.9,12,13	17"	1" Dark and light brown Sand. 16" light brown fine SAND, trace medium to coarse Sand some Silt., poorly sorted.	S-2 2-4'	0.0	
4								
5		SAND	6.9,15,11	20"	Fine SAND with some Silt. compact, well sorted, damp.	S-3 4-6'	0.0	
6								
7		SAND & SILT	17,19,25,20	22"	10" Gray fine SAND & SILT saturated. 1' fine to medium Sand, bottom (1" black staining and 3" orange/red staining).	S-4 6-8'	0.0	
8								
9		SAND	5,11,14,19	20"	Brown fine SAND with some Silt. 3" layer of medium to coarse reddish/orange Sand, saturated and well sorted.	S-5 8-10'	0.0	
10								
11		SAND & SILT	6,7,7,8	24"	2' fine SAND and SILT, brown, well sorted, saturated and compact. Bottom 3" red/orange Sand and Silt.	S-6 10-12'	0.0	
12								
13		SAND		24"	1' brown fine SAND, moderately packed, well sorted, saturated. Bottom 2" orange stain. 1' brown fine SAND well sorted, saturated.	S-7 12-14'	0.0	
14								
15		SAND	7,5,7,7	12"	1' fine SAND with some Silt, moderately packed, well sorted, saturated. Top 8" red/orange stain. Brown bottom 4" gray.	S-8 14-16'	0.0	
16								
17		SAND	5,6,6,7	20"	2" brown. 1'6" gray fine SAND, well sorted.	S-9 16-18'	3.3	
18								
19		SAND	3,5,5,3	14"	Gray fine SAND, saturated, well sorted.	S-10 18-20'	0.0	
20								
21		SAND	6,6,6,7	12"	Gray fine SAND, saturated, well sorted.	S-11 20-22'	0.0	
22								
23		SAND & SILT	6,5,5,5	20"	1'2" gray fine SAND, moderately compact, sorted, saturated. 6" gray fine SAND with some SILT, well sorted.	S-12 22-24'	0.0	
24								
25		SILT	5,4,4,4	18"	1' gray SILT with some fine Sand, well sorted, moderately compact. 4 thin Clay layers in section. 6" gray fine SAND, well sorted.	S-13 24-26'	0.0	
26								

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #:MW-263M



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
27		SAND	5, 5, 5, 8	14"	7" fine SAND with some Silt, gray, well sorted, saturated and compact. 7" gray Silt with some fine Sand, well sorted, saturated. 1/2" Clay layer throughout.	S-14 26-28'	0.0	
28		SILT	5, 6, 7, 7	19"	Gray SILT with some fine SAND. 4 Clay layers (1/2") well sorted, saturated. 3" gray fine Sand some silt, sorted.	S-14 28-30'	0.0	
29								
30								
31		SAND	5, 4, 4, 4	14"	7" gray fine SAND with some Silt, sorted, tight packed. 7" gray fine Sand, well sorted, tight packed.	S-15 30-32'	0.0	
32								
33		SAND & SILT	5, 5, 6, 6	18"	Gray fine SAND and SILT, well sorted, compact, saturated with Clay layers (tight Clay).	S-16 32'-34'		
34								
35		SILT	6, 5, 21, 85	13"	9" gray SILT, trace fine SAND with Clay layers. 1" medium fine gray SAND sorted. 1" pink rock.	S-17 34-36'	0.0	
36								
37		SAND	16, 12, 26, 34	15"	Fine to medium gray SAND, well sorted, little Gravel. Pebbles. 7" fine to medium Sand gray, well sorted. 5" gray medium to coarse Sand and Gravel, poorly sorted, green rock fragments.	S-18 36-38'	0.0	
38								
39		SAND & GRAVEL	52, 68, 82, 68	12"	Medium to coarse SAND and GRAVEL, angular, poorly sorted, loose, gray, broken coarse Gravel. Bottom 2" an orange and black mix.	S-19 38-40'	0.0	
40								
41			120/2"	NA	NO SAMPLE RECOVERED.	NA	NA	
42								
43				NA	NO SAMPLE RECOVERED.	NA	NA	
44								
45		SAND	33, 33, 38, 42	5"	Coarse SAND and medium to coarse Gravel, poorly sorted.	S-20 44-46'	0.0	
46								
47		SAND	30, 32, 24, 23	12"	6" medium to coarse SAND, fine Gravel, loose poorly sorted. 6" fine to medium SAND, some coarse Sand, moderately sorted.	S-21 46-48'	0.0	
48								
49		SAND	44, 26, 38, 36	15"	Gray fine SAND with little Silt. 6" down Clay and Silt (1/2") layer.	S-22 48-50'	0.0	
50								
					<p>Well Construction Details 4" Steel Standpipe 0-41' Portland cement-bentonite slurry grout 41-43' Bentonite chip seal 43-50' Sand filter pack 45-50' 0.010" slotted PVC well screen 50" Bottom of borehole</p>			

DRILLING LOG for Well #: MW-264S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	C. Regan		
Drilling Co:	Geosearch, Inc.	Driller:	Dave		
Date Started:	6-Dec-02	Date Finished:	10-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	10'	Type:	PVC
Boring Depth:	20'	Well Depth:	20'	Boring Diam.:	8"
Surface Elev.:	123.60'	MP:	PVC	Depth to GW:	5.51'
		MP Elev.:	126.32'		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
2					<p>Well Construction Details:</p> <p>4" Steel Standpipe</p> <p>0'-6' Portland Cement and Bentonite Slurry Grout</p> <p>6'-8' Bentonite Chip Seal</p> <p>8'-20' #1 Silica Sand Filter Pack</p> <p>10'-20' 0.010" Slotted PVC Well Screen</p> <p>20' Bottom of Borehole</p> <p>Bottom of Boring at 20' bgs</p> <p>Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-264D</p>			
4								
6								
8								
10								
12								
14								
16								
18								
20								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-264M

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	C. Regan		
Drilling Co.:	Geosearch, Inc.	Driller:	Dave Ericson		
Date Started:	6-Dec-02	Date Finished:	10-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	34'	Type:	PVC
Boring Depth:	44'	Well Depth:	44'	Boring Diam.:	8"
Surface Elev.:	123.01'	MP:	PVC	Depth to GW:	6.8'
		MP Elev.:	126.28'		

MW-264M B-226 ⊕

⊕ ⊕ ← MW-264S

MW-264D

B-227 ⊕

Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon HS	Lab Sample # & Analyses
4					Well Construction Details:			
8					4" Steel Standpipe			
12					0-30' Portland Cement and Bentonite Slurry Grout			
16					30'-32' Bentonite Chip Seal			
20					32'-44' #1 Silica Sand Filter Pack			
24					34'-44' 0.010" Slotted PVC Well Screen			
28					44' Bottom of Borehole			
32								
36								
40								
44					Bottom of Boring at 44' bgs			
					Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-264D			

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

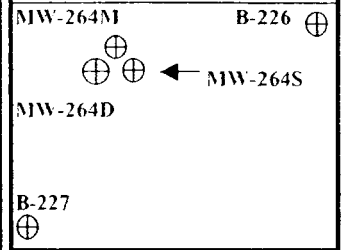
DRILLING LOG for Well #: MW-264D

ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

SITE MAP









Project:	Raytheon - Wayland	Project Number:	143.68
Client:	Raytheon	Logged by:	C. Regan
Drilling Co:	Geosearch, Inc.	Driller:	Dave
Date Started:	6-Dec-02	Date Finished:	10-Dec-02
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA/Drive and Wash
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Length:	72'
Boring Depth:	80'	Well Depth:	77'
Surface Elev.:	123.72'	MP:	PVC
		MP Elev.:	126.63'
		Slot Size:	0.010"
		Type:	PVC
		Boring Diam.:	8"
		Depth to GW:	8.96'



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1		GRAVEL	2, 7, 7, 5	12"	Topsoil w/ some GRAVEL.	S-1 0-2'	0.0	
2								
3		GRAVEL	5, 3, 4, 4	2"	Topsoil w/ GRAVEL.	S-2 2'-4'	0.8	
4								
5		SAND	5, 7, 11, 14	16"	Top 12" fine to medium brown SAND, moderately compact, sorted, saturated, bottom 4": fine gray SAND, compact, trace Clay, some orange staining, saturated.	S-3 4'-6'	0.0	
6								
7		SAND	30, 27, 27, 15	21"	Top 7" fine SAND, trace brown Silt, sorted, next 4": fine gray Sand & Silt, trace Clay, sorted, moderately compact, bottom 12": medium to coarse brown SAND, poorly sorted, trace Gravel.	S-4 6'-8'	0.0	
8								
9		SAND	12, 12, 14, 15	14"	Top 6" medium to coarse brown SAND, orange staining, trace fine Gravel, moderately compact, poorly sorted, bottom 8": gray/brown fine SAND & Silt, trace Clay interbeds.	S-5 8'-10'	0.0	
10								
11		SILT	15, 13, 15, 15	16"	Top 12" brown SILT, little fine Sand, trace Clay, bottom 4": gray SILT, trace fine Sand and Clay, moderately compact.	S-6 10'-12'	0.0	
12								
13		SILT	14, 13, 11, 14	19"	Gray SILT w/ little Clay, interbedded Clay lenses, moderately compact.	S-7 12'-14'	0.0	
14								
15		SILT	9, 8, 9, 10	12"	Gray SILT, some Clay; Clay lenses also interbedded throughout.	S-8 14'-16'	0.0	
16								
17		SILT & CLAY	9, 12, 12, 12	16"	Gray CLAY & SILT, every 1" Clay lens (1/8"), moderately compact, sorted.	S-9 16'-18'	0.4	
18								
19		SILT & CLAY	9, 11, 11, 10	20"	Gray CLAY & SILT, every ~1" Clay lens (~1/8"), moderately compact.	S-10 18'-20'	0.0	
20								
21		SILT & CLAY	3, 4, 7, 10	15"	Gray CLAY & SILT; Clay lenses interbedded every 1", SILT interbeds, moderately compact.	S-11 20'-22'	0.0	
22								
23		SILT & CLAY	14, 15, 20, 20	8"	Gray SILT and CLAY, interbedded Clay lenses, little to trace medium Sand.	S-12 22'-24'	0.0	
24								
25		SILT	7, 6, 9, 10	15"	Gray SILT w/ little fine Sand & trace Clay, interbedded Clay lenses (1/4"); bottom 3": little fine Sand and Silt, moderately compact.	S-13 24'-26'	0.0	
26								

Key to Well Construction

-  Sandpack
-  Well Screen
-  Grout
-  Bentonite Seal
-  Cement
-  Native Material

DRILLING LOG for Well #: MW-264D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
66		SAND	47, 53, 61, 76	24"	Gray medium SAND, trace Silt, trace fine Sand, Clay lens (1") at bottom of interval.	S-34 66'-68'	0.0	
67								
68		SAND	15, 30, 60, 51	14"	Medium SAND, trace fine Sand & Silt, bottom 9" gray fine Sand & Silt, little to trace Clay.	S-35 68'-70'	1.8	
69								
70		SAND	26, 25, 38, 56	19"	Gray medium SAND, little fine SAND, little Silt, trace Clay lens (2").	S-36 70'-72'	5.4	
71								
72		SAND	30, 55, 63, 54	24"	Gray med SAND, little to trace fine SAND, interval fines downward, little Silt trace Clay lens (1").	S-37 72'-74'	5.8	
73								
74		SILT	32, 44, 57, 68	18"	Gray SILT interbedded with some Clay lenses (1"), some gray fine Sand.	S-38 74'-76'	0.8	
75								
76	SAND	41, 64, 58, 56	20"	Gray fine SAND, some Silt, little to trace Clay, Clay lens (1/4") at bottom of interval.	S-39 76'-78'	1.8		
77								
78	TILL	48, 88, 90, 117	16"	Gray SILT, some to little Sand, some to little Clay, trace angular Cobbles/Gravel, trace Clay interbeds (1/4"-1"); dense interval (TILL).	S-40 78'-80'	0.0		
79								
80								

Well Construction Details

- 4" Steel Standpipe
- 0-68' Portland Cement-Bentonite Slurry Grout
- 68-70' Bentonite Chip Seal
- 70-77' Sand Filter Pack
- 72-77' 0.010" Slotted PVC Well Screen
- 80' Bottom of Borehole

DRILLING LOG for Well # MW-265S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

⊕
B-227

MW-265D
B-240 → ⊕
MW-265M → ⊕
MW-265S → ⊕

Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Jason Fernet/Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Artie Cox		
Date Started:	5-Dec-02	Date Finished:	9-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	8'	Type:	PVC
Boring Depth:	18'	Well Depth:	18'	Boring Diam.:	8"
Surface Elev.:	127.50'	MP:	PVC	Depth to GW:	7.49'
		MP Elev.:	130.06'		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
2					<p>Well Construction Details:</p> <p>4" Steel Standpipe</p> <p>0'-4' Portland Cement and Bentonite Slurry Grout</p> <p>4'-6' Bentonite Chip Seal</p> <p>6'-18' #1 Silica Sand Filter Pack</p> <p>8'-18' 0.010" Slotted PVC Well Screen</p> <p>18' Bottom of Borehole</p> <p>Bottom of Boring at 18' bgs</p> <p>Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-265D</p>			
4								
6								
8								
10								
12								
14								
16								
18								

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

DRILLING LOG for Well : MW-265M

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Jason Fernet/Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Artie Cox		
Date Started:	5-Dec-02	Date Finished:	9-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	40'	Type:	PVC
Boring Depth:	45'	Well Depth:	45'	Boring Diam.:	8"
Surface Elev.:	127.48	MP:	PVC	Depth to GW:	10.82'
		MP Elev.:	129.89		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
4					Well Construction Details: 4" Steel Casing 0'-36' Portland Cement and Bentonite Slurry Grout 36'-38' Bentonite Chip Seal 38'-45' #1 Silica Sand Filter Pack 40'-45' 0.010" Slotted PVC Well Screen 45' Bottom of Borehole			
8								
12								
16								
20								
24								
28								
32								
36								
40								
44								
48					Bottom of Boring at 45' bgs Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-265D			

Key to Well Construction

-  Sandpack
-  Well Screen
-  Grout
-  Bentonite Seal
-  Cement
-  Native Fill

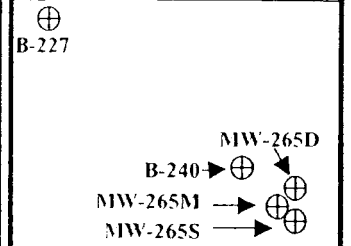
DRILLING LOG for Well #: MW-265D

ERM
399 Boylston Street 10th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Jason Fernet/Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Artie Cox		
Date Started:	5-Dec-02	Date Finished:	9-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA/Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	83.9'	Type:	PVC
Boring Depth:	90'	Well Depth:	88.9'	Boring Diam.:	8"
Surface Elev.:	127.48'	MP:	PVC	Depth to GW:	14.2'
		MP Elev.:	130.07'		



Notes: DTW measured on 1/07/0

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6		SAND & GRAVEL	19,13,15,21	20"	Top 6": medium brown SAND and GRAVEL (damp); Bottom 6": fine to medium brown Sand.	S-1 4'-6'	0.0	
7								
8		SAND	8,10,10,12	20"	Medium/fine brown SAND (damp), little red-brown bedding, trace silt.	S-2 6'-8'	0.0	
9								
10								
11								
12		SAND	10,13,17,19	12"	Brown, fine SAND, saturated, coarsening downward in spoon to coarse brown Sand.	S-3 11'-13'	0.0	
13								
14								
15								
16		SAND & SILT	5,6,9,9	15"	Light brown to gray fine SAND and SILT, little medium to coarse Sand.	S-4 15'-17'	0.0	
17								
18		SAND & SILT	9,9,10,12	24"	Gray fine SAND and SILT, some medium to coarse Sand at top of unit (Collapse from above?).	S-5 17'-19'	0.0	
19								
20		SAND & SILT	5,5,7,8	18"	Gray fine SAND and SILT.	S-6 19'-21'	0.0	
21								
22		SAND & SILT	9,10,10,9	24"	Gray fine SAND and SILT.	S-7 21'-23'	0.0	
23								
24		SAND & SILT	5,5,6,8	18"	Gray fine SAND and SILT.	S-8 23'-25'	0.0	
25								
26		SAND & SILT	5,5,7,9	10"	Gray fine SAND and SILT.	S-9 25'-27'	0.0	
27								

Key to Well Construction

- Sandpack
- Well Screen
- Drill Cuttings
- Bentonite Seal
- Cement
- Grout

DRILLING LOG for Well #:

MW-265D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description: Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
28	[Hatched Column]	SAND & SILT	4.6, 8.9	15"	Gray fine SAND and SILT, trace dark gray Clay.	S-10 27'-29'		
29								
30		SAND & SILT	5.6, 7.10	12"	Gray fine SAND and SILT, trace dark gray Clay.	S-11 29'-31'	0.0	
31								
32		SAND & SILT	5.5, 7.11	18"	Gray fine SAND and SILT, trace dark gray Clay.	S-12 31'-33'	0.0	
33								
34		SAND & SILT	2.4, 6.9	18"	Gray fine SAND and SILT, trace dark gray Clay, little fine red/brown Sand, thin Clay lens.	S-13 33'-35'	0.0	
35								
36		SAND	5.6, 5.6	12"	Fine brown SAND	S-14 35'-37'	0.0	
37								
38		SAND & SILT	5.5, 6.8	18"	Gray fine SAND and SILT, some brown Sand, trace Clay lens.	S-15 37'-39'	1.0	
39								
40		SAND	5.5, 4.5	20"	Gray fine SAND, some Silt.	S-16 39'-41'	9.3	
41								
42		SAND	5.7, 7.9	20"	Gray fine SAND.	S-17 41'-43'	3.2	
43								
44	SAND	2.2, 4.5	24"	Gray fine SAND, trace Silt at bottom of interval.	S-18 43'-45'	0.0		
45								
46	SAND	6.6, 5.5	20"	Fine gray SAND, trace Silt, trace dark gray Clay interbed at bottom of interval (1/8").	S-19 45'-47'	0.3		
47								
48	SAND & SILT	6.5, 4.5	10"	Well sorted fine SAND and SILT, trace dark gray Clay lens at bottom of interval (1/2"-1/8").	S-20 47'-49'	2.3		
49								
50	SAND	7.5, 5.7	18"	Fine gray SAND, trace Silt, trace dark gray Clay.	S-21 49'-51'	0.3		
51								
52	SAND	8.5, 4.3	15"	Fine gray SAND, trace Silt, some fine Sand and Silt, trace dark Clay interbed.	S-22 51'-53'	1.9		
53								
54	SAND	8.2, 4.3	15"	Fine gray SAND, some Silt, trace dark gray Clay interbeds (1/8").	S-23 53'-55'	2.9		
55								
56		6.5, 4.3			NO SAMPLE RECOVERED.			
57								
58	SAND & SILT	6.6, 4.3	18"	Well sorted gray fine SAND and SILT, trace dark gray Clay lenses (1/2").	S-24 57'-59'	1.7		
59								
60	SAND & SILT	5.9, 25.100/3"	6"	Gray fine SAND and SILT, trace dark gray Clay.	S-25 59'-60'	0.0		
61	SAND & GRAVEL	6.8, 10.8	8"	Medium to coarse gray GRAVEL and SAND, trace Silt.	S-26 60'-62'	1.7		
62								
63	SAND	100/5"	5"	Fine gray SAND, little Gravel.	S-27 62'-63'	1.8		
64					SWITCH TO DRIVE AND WASH			

DRILLING LOG for Well #:

MW-265D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

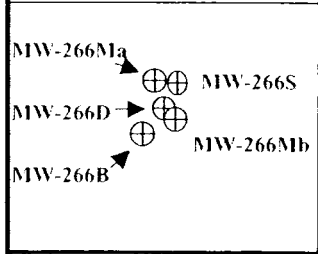
Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
65		SAND	10, 15, 64, 109, 5	25"	Multicolored, poorly sorted coarse SAND, some Silt, coarsening downward to little Gravel, little Clay.	S-28 64'-66'	1.1	
66								
67		GRAVEL	71, 99, 150, 5"	20"	Multicolored, well sorted GRAVEL, little fine Sand, some Silt, little to trace Clay, trace Cobbles.	S-29 66'-68'	0.9	
68								
69		SILT	11, 16, 30, 23	20"	Well sorted gray SILT, trace fine Sand, multicolored moderately sorted coarse Sand, some Silt, some Gravel.	S-30 68'-70'	0.5	
70								
71		SAND	59, 49, 23, 45	18"	Top 1": poorly sorted Gravel, (blow in?), gray/brown well sorted medium SAND, some coarse SAND in bottom 5", @ 13" from top Silt and Clay.	S-31 70'-72'	0.0	
72								
73		SAND	40, 55, 58,	19"	Top 2" poorly sorted Gravel, rest well sorted gray/brown medium/coarse SAND, Silt and Clay lenses @ 6" & 11".	S-32 72'-74'	0.0	
74								
75		SAND	9, 19, 24, 28	10"	Gray well sorted medium/coarse SAND, minor bedding of brown grains.	S-33 74'-76'	0.7	
76								
77		SAND	15, 20, 26, 30	16"	Top 3" dark gray Clay, some Silt well sorted, remaining depth gray gray/brown well sorted fine to medium SAND, minor horizontal bedding of brown sediments.	S-34 76'-78'	1.7	
78								
79		SAND	36, 40, 54, 51	12"	Gray well sorted medium gray SAND, little Silt.	S-35 78'-80'	0.0	
80								
81		SAND	34, 40, 54, 46	19"	Top 2" Gray Clay little Silt, bottom 17" gray well sorted medium SAND, little Silt.	S-36 80'-82'	NR	
82								
83		SAND	30, 21, 21, 21	11"	Gray brown gray well sorted fine to medium SAND, some Silt, bottom 4": Silt, bottom 1" Silt and Clay, little Cobbles.	S-37 82'-84'	NR	
84								
85		SILT	37, 42, 44, 35	7"	Gray gray brown well sorted SILT, some fine Sand, little Clay.	S-38 84'-86'	NR	
86								
87		SILT	64, 59, 75, 76	17"	Gray poorly sorted SILT w/ some Gravel, Cobbles, little Clay, densely packed unit.	S-39 86'-88'	NR	
88								
89		TILL	98, 120/3"	5"	Top 2" unconsolidated GRAVEL/COBBLES, some Silt, bottom 3" Gravel & Cobbles w/ Clay matrix, solid clast wedged in spoon basket (On TILL or top of BEDROCK).	S-40 88'-89'	NR	
90					Bottom of Boring at 89'			
					Well Construction Details 4" Steel Standpipe 0-79': Portland Cement-Bentonite Slurry Grout 79-81': Bentonite Chip Seal 81'-88.9': #1 Silica Sand Filter Pack 83.9'-88.9': 0.010" Slotted PVC Well Screen 88.9': Bottom of Borehole			

DRILLING LOG for Well #: MW-266S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP
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N

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	C. Auer/C. Regan		
Drilling Co:	Geosearch, Inc.	Driller:	Mike DeAmicis		
Date Started:	9-Dec-02	Date Finished:	12-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	7'	Type:	PVC
Boring Depth:	17'	Well Depth:	17'	Boring Diam.:	8"
Surface Elev.:	125.04'	MP:	PVC	Depth to GW:	6.92'
		MP Elev.:	126.79'		



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
2					Well Construction Details:			
4					4" Steel Standpipe			
6					0'-3' Portland Cement and Bentonite Slurry Grout			
8					3'-5' Bentonite Chip Seal			
10					5'-17' #1 Silica Sand Filter Pack			
12					7'-17' 0.010" Slotted PVC Well Screen			
14								
16					17' Bottom of Borehole			
18					Bottom of Boring at 17' bgs			
					Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-266D			

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

DRILLING LOG for Well #: MW-266Ma

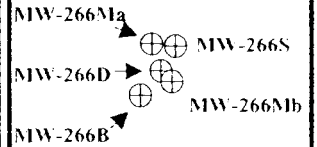


ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project	Raytheon-Wayland	Project Number	143.68		
Client	Raytheon	Logged by	C. Auer C. Regan		
Drilling Co.	Geosearch, Inc.	Driller	Mike DeAmicis		
Date Started	9-Dec-02	Date Finished	12-Dec-02		
Location	Wayland, MA	Drilling Method	4.25" ID HSA Drive and Wash		
Screen Diam.	2"	Length	5'	Slot Size	0.010"
Casing Diam.	2"	Length	47'	Type	PVC
Boring Depth	52'	Well Depth	52'	Boring Diam.	8"
Surface Elev.	125.25'	MP	PVC	Depth to GW	9.46'
		MP Elev.	127.72'		



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc (ppm) spoon HS	Lab Sample # & Analyses
4					Well Construction Details:			
8					4" Steel Standpipe			
12					0'-43' Portland Cement and Bentonite Slurry Grout			
16					43'-45' Bentonite Chip Seal			
20					45'-52' #1 Silica Sand Filter Pack			
24					47'-52' 0.010" Slotted PVC Well Screen			
28					52' Bottom of Borehole			
32								
36								
40								
44								
48								
52					Bottom of Boring at 52' bgs			
<p>Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-266D</p>								

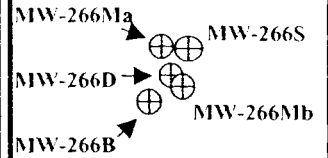
Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

DRILLING LOG for Well #: MW-266Mb

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399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project: Raytheon-Wayland	Project Number: 143.68	
Client: Raytheon	Logged by: C. Auer C. Regan	
Drilling Co: Geosearch, Inc.	Driller: Mike DeAmicis	
Date Started: 9-Dec-02	Date Finished: 12-Dec-02	
Location: Wayland, MA	Drilling Method: 4.25" ID HSA Drive and Wash	
Screen Diam: 2"	Length: 10'	Slot Size: 0.010"
Casing Diam: 2"	Length: 58'	Type: PVC
Boring Depth: 68'	Well Depth: 68'	Boring Diam.: 8"
Surface Elev.: 125.24'	MP: PVC	Depth to GW: 8.71'
	MP Elev.: 126.88'	

Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 8 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
4					Well Construction Details: 4" Steel Standpipe 0'-54' Portland Cement and Bentonite Slurry Grout 54'-56' Bentonite Chip Seal 56'-68' #1 Silica Sand Filter Pack 58'-68' 0.010" Slotted PVC Well Screen 68' Bottom of Borehole			
8								
12								
16								
20								
24								
28								
32								
36								
40								
44								
48								
52								
56								
60								
64								
68					Bottom of Boring at 68' bgs			
					Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-266D			

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

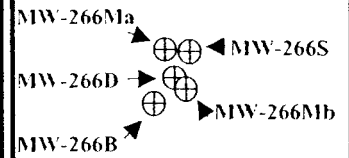
DRILLING LOG for Well #: MW-266D

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399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	C. Auer, C. Regan		
Drilling Co:	Geosearch, Inc.	Driller:	Mike DeAmicis		
Date Started:	9-Dec-02	Date Finished:	12-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4 25" ID HSA Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	100'	Type:	PVC
Boring Depth:	106'	Well Depth:	105'	Boring Diam.:	8"
Surface Elev.:	125.32'	MP:	PVC	Depth to GW:	10.03'
		MP Elev.:	127.70'		



Notes:
DTW measured on 1/06/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5		SAND	10, 12, 17, 21	10"	Top 4" fine-med dark brown Sand w/ organics, bottom 6" lighter medium brown SAND.	S-1 4'-6'	0.0	
6								
7								
8								
9		SAND	9, 10, 8, 10	11"	Top 5" Gray fine SILT w/ med Gravel, some fine Sand; Bottom 11" gray to orange medium SAND, orange interbeds of fine Sand, little Sil little Gravel.	S-2 8'-10'	0.0	
10								
11								
12								
13								
14		SILT	10, 10, 13, 13	13"	Top 1" medium Cobbles & gray SILT, 12" fine gray SILT, @ 2" & 5" from bottom black Clay layers.	S-3 13'-15'	0.0	
15								
16								
17								
18								
19		SILT	10, 5, 5, 4	10"	Top 1" small to medium Cobbles & fine gray SILT; Bottom 9": very fine gray SILT.	S-4 18'-20'	0.0	
20								
21								
22					SWITCH TO DRIVE AND WASH			
23								
24		SILT	8,6,6,4	18"	Very fine gray SILT, trace Clay towards bottom, @ 12", 8", 4" from bottom black Clay layers.	S-5 23'-25'	0.0	
25								

Key to Well Construction

	Sandpack		Well Screen		Native Material
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #: MW-266D

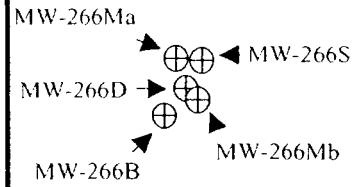
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Depth	Well Log	Stratigraphy	Blow counts per 10 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
93		COBBLE			*hit another COBBLE(?), drove through it, no sample taken	S-35 92'-94'		
94		SAND	35, 35, 47, 50	11"	Top 3": Gray Silt w/ little fine SAND, compact. 2 Clay lenses (1/4" thick); Bottom 8" gray coarse to medium SAND, some fine SAND, loose.	S-35 94'-96'	0.3	
95			30, 35, 45, 50	13"	Top 5" gray fine SAND, little Silt with 3/4" thick Clay lens @ end; Next 7": gray fine SAND, moderately compact. Bottom 1": gray Silt with little fine SAND & Clay.	S-36 96'-98'	1.0	
96		SILT	33, 30, 35, 37	11"	Top 3" gray SILT, little to trace fine SAND w/ thin Clay lenses interbedded; Bottom 8" gray SILT with some-little fine Sand, compact.	S-37 98'-100'	0.4	
97			SAND	30, 30, 45, 45	14"	Gray fine SAND, trace Silt.	S-38 100'-102'	0.6
98		SAND	20, 30, 45, 50	8"	Top 5" gray fine SAND, some to little Silt, compact, 1/2" thick Clay lens; Bottom 2.5" gray Silt w/some to little fine SAND & trace Clay, compact.	S-39 102'-104'	11.5	
99			SILT	35, 120/4"	11"	Top 5" gray fine Sand, some to little SILT, fairly loose, next 5" SILT trace fine Sand, with 1/2" Clay lens @ bottom, very hard; Bottom 1" gray Silt & Clay, compact, trace pebbles throughout.	S-40 104'-106'	3.7
100				100/3"		*attempted to take spoon @ 105.5' due to obstruction @ 104.5, no recovery.		
101					Bottom of Boring at 106' bgs. (Borehole collapse one foot, final depth set well at 105' bgs)			
102					Well Construction Details 4" Steel Standpipe 0-96' Portland Cement-Bentonite Slurry Grout 96-98' Bentonite Chip Seal 98-105' Sand Filter Pack 100-105' 0.010" Slotted PVC Well Screen 106' Bottom of borehole			

DRILLING LOG for Well #: MW-266B

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68
Client:	Raytheon	Logged by:	Michael Horesh
Drilling Co.:	Geosearch, Inc.	Driller:	Jim
Date Started:	30-Dec-02	Date Finished:	30-Dec-02
Location:	Wayland, Massachusetts	Drilling Method:	Drive and Wash Air Rotary
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Length:	133'
Boring Depth:	138'	Well Depth:	137.87'
Surface Elev.:	125.11'	MP:	PVC
		MP Elev.:	128.14'
		Slot Size:	0.010"
		Type:	PVC
		Boring Diam.:	8"
		Depth to GW:	10.25'

Notes: Depth to GW measured on 1/15/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
10					<p style="text-align: center;">Well Construction Details</p> <p>6 1/2" Steel Standpipe 0-108' Steel Casing 0'-129' Portland Cement-Bentonite Slurry Grout 129'-131' Bentonite Chip Seal 131'-138' Sand Filter Pack 133'-138' 0.010" Slotted PVC Well Screen</p> <p>Bottom of Boring at 138' bgs.</p>			
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								

Key to Well Construction

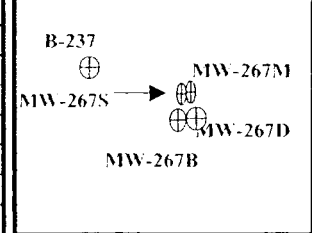
- Sandpack
- Well Screen
- Drill Cuttings
- Bentonite Seal
- Cement
- Grout

DRILLING LOG for Well #: MW-267S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP
N

Project: Raytheon-Wayland	Project Number: 143.68	
Client: Raytheon	Logged by: Michael Horesh	
Drilling Co: Geosearch, Inc.	Driller: Artie Cox	
Date Started: 9-Dec-02	Date Finished: 9-Dec-02	
Location: Wayland, MA	Drilling Method: 4.25" ID HSA Drive and Wash	
Screen Diam: 2"	Length: 5'	Slot Size: 0.010"
Casing Diam: 2"	Length: 72'	Type: PVC
Boring Depth: 77'	Well Depth: 77'	Boring Diam.: 8"
Surface Elev.: 123.22'	MP: PVC	Depth to GW: 8.31'
	MP Elev.: 125.30'	



Notes:
DTW measured on 1/06/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc (ppm) spoon HS	Lab Sample # & Analyses
4					Well Construction Details:			
8					4" Steel Standpipe			
12					0'-68' Portland Cement and Bentonite Slurry Grout			
16					68'-70' Bentonite Chip Seal			
20					70'-77' #1 Silica Sand Filter Pack			
24					72'-77' 0.010" Slotted PVC Well Screen			
28					77' Bottom of Borehole			
32								
36								
40								
44								
48								
52								
56								
60								
64								
68								
72								
76								
80					Bottom of Boring at 77' bgs			
					Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-267D			



DRILLING LOG for Well #: MW-267M

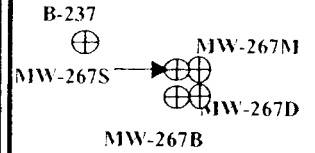


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399 Baylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Artie Cox		
Date Started:	2-Dec-02	Date Finished:	6-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA/Drive and Wash		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	85'	Type:	PVC
Boring Depth:	95'	Well Depth:	95'	Boring Diam.:	8"
Surface Elev.:	123.26'	MP:	PVC	Depth to GW:	8.18"
		MP Elev.:	125.40'		



Notes: DTW measured on 1/06/03

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
5					Well Construction Details: 4" Steel Standpipe 0'-81' Portland Cement and Bentonite Slurry Grout 81'-83' Bentonite Chip Seal 83'-95' #1 Silica Sand Filter Pack 85'-95' 0.010" Slotted PVC Well Screen 95' Bottom of Borehole			
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95					Bottom of Boring at 95' bgs Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-267D			

Key to Well Construction

- | | | | | | |
|--|----------------|--|-------------|--|-------------|
| | Sandpack | | Well Screen | | Grout |
| | Bentonite Seal | | Cement | | Native Fill |

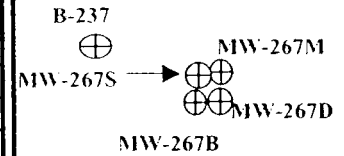
DRILLING LOG for Well #: MW-267D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Joe Keenan		
Date Started:	2-Dec-02	Date Finished:	6-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	116'	Type:	PVC
Boring Depth:	121'	Well Depth:	121'	Boring Diam.:	8"
Surface Elev.:	123.06'	MP:	PVC	Depth to GW:	8.46'
		MP Elev.:	125.88'		



Notes:
DTW measured on 1/06/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND	6, 8, 8, 10	18"	Top 10" orange-orange/brown coarse moderately sorted SAND, moist, bottom 8" orange/brown fine/med Sand, dry, well sorted, trace Clay, trace Silt.	S-1 5'-7'	1.8	
7								
8		SAND	7, 5, 7, 9	20"	Top 11" brown well sorted med SAND, wet, trace Gravel, bottom 9" poorly sorted brown & black coarse SAND, little Gravel, wet.	S-2 7'-9'	2.6	
9								
10		SILT	7, 8, 8, 8	17"	Brown/orange/gray well sorted SILT, some Clay interbeds (1/4"), some med Sand interbeds (1").	S-3 9'-11'	1.9	
11								
12		SAND & SILT	9, 7, 6, 8	25"	Top 7" brown/dark brown coarse/medium Sand, wet, bottom 18" brown well sorted fine SAND & SILT, some dark Clay interbeds (1/4").	S-4 11'-13'	2.3	
13								
14		SAND	7, 9, 9, 8	18"	Top 2" brown/orange poorly sorted coarse & med SAND, little Silt, bottom 16" orange/brown well sorted Silt, some fine Sand, little-trace Clay interbeds (2 1/4"), horizontal orange interbeds throughout.	S-5 13'-15'	2.7	
15								
16		SAND & SILT	5, 5, 6, 4	14"	Brown/gray well sorted fine SAND & SILT, little Clay interbeds (gray), wet, some dark brown Clay interbeds.	S-6 15'-17'	2.2	
17								
18		SAND & SILT	5, 5, 5, 7	17"	Gray/brown fine SAND & SILT, well sorted dark Clay interbeds.	S-7 17'-19'	2.5	
19								
20		SILT	6, 7, 7, 9	4"	Gray/dark gray well sorted SILT, some gray/dark gray Clay.	S-8 19'-21'	0.8	
21								
22		SILT	6, 8, 8, 7	13"	Gray/drk gray well sorted SILT, some Clay.	S-9 21'-23'	0.1	
23								
24		SILT	8, 7, 7, 7	14"	Gray/dark gray well sorted SILT, little to some Clay, some dark gray Clay interbeds.	S-10 23'-25'	2.7	
25								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Concrete		Native Material

DRILLING LOG for Well #: MW-267D



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Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc (ppm) spoon HS	Lab Sample # & Analyses	
94		SAND	4, 3, 4, 7	24"	Top 16" gray well sorted fine SAND, trace Silt, trace bedding, bottom 8" gray well sorted Silt, some to little fine Sand.	S-45 93'-95'	10.2		
95		SILT	4, 3, 4, 7	24"	Top 10" gray well sorted SILT, bottom 14" gray well sorted fine Sand little Silt.	S-46 95'-97'	N/A		
96									
97		SAND	71, 88, 120*	4"	Gray well sorted SAND, large chunks of rock recovered @ tip of spoon, cemented w/ tight Clay.	S-47 97'-99'	0.4		
98									
99									
100						* Recovered material may be TILL or GRAVEL, switch to roller bit. No samples from 99-103' because driller had to roller bit through interval, continued sampling at 5' intervals.			
101									
102									
103									
104		GRAVEL	68, 27, 40, 41	5"	Top 2" dark gray poorly sorted GRAVEL, angular, some to little Silt, bottom 2" gray-brown/gray fine Sand & Silt, trace Clay.	S-48 103'-105'	0.5		
105									
106									
107									
108									
109		SAND	17, 70, 68	24"	Top 2" Gravel, little Cobbles/Silt, next 11" black-tan poorly sorted coarse SAND, little Gravel/Silt, trace Clay, next 6" multicolored Sand & Gravel, some Silt & Clay, last 5" well sorted fine Sand.	S-49 108'-110'	8.4		
110									
111					Hole collapsed @ 110', continued drilling. * Drillers believe that upper 10" of GRAVEL collapsed from above.				
112									
113									
114		SILT	32, 55, 41, 82	22"	Top 10" poorly sorted Gravel, some to little Cobbles, little Silt, bottom 12" gray well sorted SILT, some fine/medium Sand, coarse Sand lens @ 18-20", trace dark gray Clay interbed @ 16".	S-50 113'-115'	0.0		
115									
116									
117									
118									
119		SILT & CLAY	8, 95, 130/3	16"	Top 4" Gravel (blow-in), bottom 12" gray-gray/brown well sorted fine Sand, some to little Clay, (basket broke @ top of interval).	S-51 118'-120'	0.0		
120									
121					Bottom of Boring of 121' bgs				
					Well Construction Details 4" Steel Standpipe 0-4' Native Material 4-112' Portland Cement-Bentonite Slurry Grout 112-114' Bentonite Chip Seal 114-121' Sand Filter Pack 116-121' 0.010" Slotted PVC Well Screen 121' Bottom of Borehole				

DRILLING LOG for Well #: MW-267B

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes: Depth to GW measured on 1/15/03

Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Jim		
Date Started:	23-Dec-02	Date Finished:	27-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	Drive and Wash/ Air Rotary		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	148'	Type:	PVC
Boring Depth:	153'	Well Depth:	153'	Boring Diam.:	8"
Surface Elev.:	122.88'	MP:	PVC	Depth to GW:	7.30'
		MP Elev.:	124.02'		

Depth	Well Log	Sonagraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
10					<p align="center">Well Construction Details</p> <p>6 1/2" Steel Standpipe</p> <p>0-122' Steel Casing</p> <p>0'-144' Portland Cement-Bentonite Slurry Grout</p> <p>144'-146' Bentonite Chip Seal</p> <p>146'-153' Sand Filter Pack</p> <p>148'-153' 0.010" Slotted PVC Well Screen</p> <p>153' Bottom of borehole</p>			
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160					Bottom of Boring at 153' bgs.			

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Steel Casing

DRILLING LOG for Well #: MW-268S

ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes:
DTW measured on 1/06/03

Project:	Raytheon-Wayland	Project Number:	143,68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Arnie Cox		
Date Started:	2-Dec-02	Date Finished:	9-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01"
Casing Diam:	2"	Length:	69'	Type:	PVC
Boring Depth:	74'	Well Depth:	74'	Boring Diam.:	8"
Surface Elev.:	121.36'	MP:	PVC	Depth to GW:	6.66'
		MP Elev.:	123.66'		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
4								
8								
12					Well Construction Details:			
16					4" Steel Standpipe			
20					0'-65' Portland Cement and Bentonite Slurry Grout			
24					65'-67' Bentonite Chip Seal			
28					67'-74' #1 Silica Sand Filter Pack			
32					69'-74' 0.010" Slotted PVC Well Screen			
36					74' Bottom of Borehole			
40								
44								
48								
52								
56								
60								
64								
68								
72					Bottom of Boring at 74' bgs			
76								
<p>Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-268D</p>								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-268M

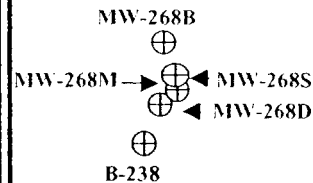


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Artie Cox		
Date Started:	9-Dec-02	Date Finished:	9-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA Drive and Wash		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	84'	Type:	PVC
Boring Depth:	94'	Well Depth:	94'	Boring Diam.:	8"
Surface Elev.:	121.48'	MP:	PVC	Depth to GW:	6.48'
	MP Elev.:	123.41'			



Notes:
DTW measured on 1/06/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
4								
8								
12								
16								
20								
24								
28								
32								
36								
40								
44								
48								
52								
56								
60								
64								
68								
72								
76								
80								
84								
88								
92								
96								
					<p>Well Construction Details:</p> <p>4" Steel Standpipe</p> <p>0'-80' Portland Cement and Bentonite Slurry Grout</p> <p>80'-82' Bentonite Chip Seal</p> <p>82'-94' #1 Silica Sand Filter Pack</p> <p>84'-94' 0.010" Slotted PVC Well Screen</p> <p>94' Bottom of Borehole</p>			
					<p>Bottom of Boring at 94' bgs</p> <p>Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-268D</p>			

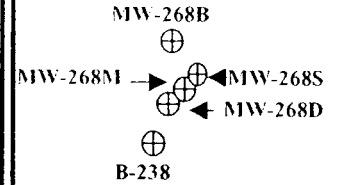
Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-268D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Notes:
DTW measured on 1/06/03

Project:	Raytheon - Wayland	Project Number:	143 68		
Client:	Raytheon	Logged by:	Corene Auer		
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amicis		
Date Started:	2-Dec-02	Date Finished:	6-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA Drive and Wash		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	122'	Type:	PVC
Boring Depth:	132'	Well Depth:	127'	Boring Diam.:	8"
Surface Elev.:	121.56'	MP:	PVC	Depth to GW:	7.73'
		MP Elev.:	124.86'		

Depth	Well Log	Stratigraphy	Blow counts per 8 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
0								
2								
4								
6		SAND & SILT	5,6,5,6	24"	Gray/brown, fine SAND & SILT, moist, trace staining.	S-1 4'-6'	0.0	
8		SAND & SILT	5,8,10,9	19"	Gray/brown, very fine SAND & SILT, moist, inelastic, trace staining.	S-2 6'-8'	0.0	
10		SAND & SILT	15,16,17,17	19"	Gray/brown, very fine SILTY SAND, dark staining, darker gray/black staining in bottom 6".	S-3 6'-8'	0.0	
12		SAND & SILT	13,14,15,15	19"	Gray/brown, very fine SILTY SAND, staining throughout.	S-4 10'-12'	0.0	
14		SILT	12,12,12,12	20"	Gray/brown, very fine SILT, some Sand, some orange staining throughout, darker gray sections (mm in height) in bottom of spoon.	S-5 12'-14'	0.0	
16		SILT	12,12,14,14	17"	Gray/brown very fine SILT, some Sand, orange staining.	S-6 14'-16'	0.0	
18		SILT	10,10,10,10	24"	Gray/brown, very fine SILT, some Sand, orange staining, @ 17' gray SILT starts.	S-7 16'-18'	0.0	
20		SILT	6,6,6,6	17"	Gray SILT, middle 6" - yellow/orange staining.	S-8 18'-20'	0.0	
22		SILT	7,7,7,8	20"	Gray SILT, bottom 2" darker gray/black staining.	S-9 20'-22'	0.0	
24		SILT	9,7,7,6	15"	Gray SILT.	S-10 22'-24'	0.0	
26		SILT	10,7,7,8	12"	Gray SILT.	S-11 24'-26'	0.0	
28		SILT	6,6,6,6	20"	Gray SILT.	S-12 26'-28'	0.0	
30		SILT	5,6,6,5	14"	Gray SILT, 1mm black Clay layer in top & bottom of spoon.	S-13 28'-30'	0.0	
32		SILT	6,6,5,5	19"	Gray SILT, thin Clay layers in top & bottom of spoon.	S-14 30'-32'	0.5	
34		SILT	10,8,8,9	17"	Gray SILT, thin black Clay layers in top, mid & bottom of spoon.	S-15 32'-34'	0.5	
36		SILT	9,7,7,5	24"	Gray SILT, black Clay layer 10" from bottom.	S-16 34'-36'	0.4	
38		SILT	8,8,8,8	24"	Gray SILT, black Clay layer 10" from bottom.	S-17 36'-38'	0.3	
40		SILT & CLAY	10,9,7,8	18"	Gray CLAYEY SILT, thin black Clay/varve layer @ bottom.	S-18 38'-40'	0.3	
42		CLAYEY SILT	6,5,7,7	24"	Gray CLAYEY SILT, Clay layers top, mid & bottom.	S-19 40'-42'	0.4	
44		CLAYEY SILT	10,8,8,8	17"	Gray CLAYEY SILT, black Clay layer @ bottom.	S-20 42'-44'	0.4	
46		CLAYEY SILT	8,9,10,8	24"	Gray CLAYEY SILT.	S-21 44'-46'	0.0	
48		CLAYEY SILT	10,10,9,9	24"	Gray CLAYEY SILT, black Clay interbeds.	S-22 46'-48'	0.3	

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Material

DRILLING LOG for Well #: MW-268D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
48								
50		CLAYEY SILT	5,5,5,5	15"	Gray CLAYEY SILT.	S-23 48'-50'	0.3	
52		CLAYEY SILT	6,6,7,8	24"	Gray CLAYEY SILT, thin black Clay layers in mid & bottom.	S-24 50'-52'	0.3	
54		SILT	10,12,13,10	20"	Gray SILT, some Clay.	S-25 52'-54'	0.2	
56		SILT	10,10,13,14	24"	Gray SILT, some Clay.	S-26 54'-56'	0.0	
58		SILT	10,10,13,14	24"	Gray SILT, some Clay, black Clay layers mid & bottom.	S-27 56'-58'	0.0	
60		SILT	8,8,9,8	12"	Gray SILT, little Clay, black varve Clay layer 2" from bottom.	S-28 58'-60'	0.0	
62		SILT	10,9,8,9	24"	Gray SILT, little Clay, black Clay layer diag. in middle.	S-29 60'-62'	0.0	
64		SILT	10,8,6,7	11"	Gray SILT, shiny particles, black varve layers 1" & 3" from bottom.	S-30 62'-64'	0.0	
66		SILT	9,7,6,9	23"	Gray SILT, multiple black Clay layers.	S-31 64'-66'	0.0	
68		SILT	9,7,7,9	24"	Gray fine SAND and SILT.	S-32 66'-68'	0.0	
70		SILT	8,8,9,9	14"	Gray SILT, little gray fine to medium Sand.	S-33 68'-70'	7.0	
72		SAND	10,10,6,7	24"	Top 7" gray med SAND, 2" of fine gray Silt, 7" from bottom black Clay layer.	S-34 70'-72'	6.3	
74		SILT	22,10,10,10	14"	Gray SILT, 2 black Clay layers @ mid & bottom.	S-35 72'-74'	27.0	
76		SILT	10,9,9,13	24"	Gray SILT, 3" thick black varve Clay layer @ 6" from bottom.	S-36 74'-76'	1.1	
78		SILT	10,9,9,6	24"	Gray SILT, some Sand, thin black Clay layer @ 3" from bottom.	S-37 76'-78'	6.2	
80		SILT	8,8,9,8	17"	Gray SILT, little very fine gray Sand	S-38 78'-80'	11.5	
82		SILT	7,7,7,7	20"	Gray very fine gray SAND and SILT.	S-39 80'-82'	7.2	
84		SILT	10,10,8,10	14"	Gray very fine gray SAND and SILT.	S-40 82'-84'	30.0	
86		SAND	6,6,7,7	22"	Gray, fine SAND, some Silt	S-41 84'-86'	25.1	
88		SAND	7,8,10,10	24"	Very fine gray SAND, some Silt	S-42 86'-88'	27.0	
90		SAND	6,6,8,10	7"	Very fine gray SAND, some Silt.	S-43 88'-90'	38.3	
92		SAND	10,10,13,15	24"	Very fine gray SAND, some Silt, trace Clay, 6"-10" from top.	S-44 90'-92'	16.6	
94		SAND	10,8,8,10	10"	Gray fine SAND, some Silt, trace to brown Sand, trace black Clay.	S-45 92'-94'	50.1	
96		SAND	8,9,8,6	23"	Gray fine SAND and SILT, little black Clay interbeds.	S-46 94'-96'	7.0	
98		SAND & SILT	10,9,10,12	24"	Fine gray SAND & SILT, little to trace Clay interbeds.	S-47 96'-98'	6.0	
100		SAND & SILT	10,12,5,5	12"	Fine gray SAND & SILT, @ 1" fr top black Clay layer	S-48 98'-100'	5.4	
102		SAND & SILT	5,6,9,9	20"	Fine gray SAND & SILT, trace Clay interbeds.	S-49 100'-102'	2.4	
104		SAND & SILT	10,8,10,12	10"	Fine gray SAND & SILT, @ 3" from bottom 2cm thick black Clay.	S-50 102'-104'	3.0	
106		SAND	10,12,14,14	14"	Fine gray SAND, some SILT, trace Clay interbeds, trace Sand & Silt.	S-51 104'-106'	2.5	
108		SAND	10,12,15,15	24"	Gray coarse SAND, some SILT, few interbedded diag gray SILTY layers.	S-52 106'-108'	1.0	
110		SAND	10,12,10,8	10"	Gray, medium to coarse SAND, some Silt, trace black Clay interbeds.	S-53 108'-110'	2.2	
112		SAND & SILT	8,8,12,10	22"	Fine gray SAND & SILT, trace black Clay interbeds.	S-54 110'-112'	NA	
113								
114					Changed to drive and wash with 5' sampling intervals.			

DRILLING LOG for Well #: MW-268D

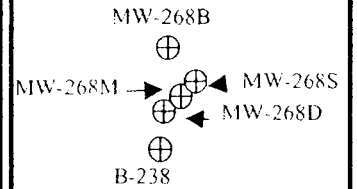
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Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc (ppm) spoon/HS	Lab Sample # & Analyses
115								
117		SAND & SILT	10,8,8,10	16"	Gray SAND & SILT. @ bottom 1.5" thick black CLAY layer	S-55 115'-117'	3.3	
120								
122		SILT & CLAY	10,11,12,14	20"	Gray SILT & CLAY, little Sand. Clay interbeds, trace Gravel. Boulder.	S-56 120'-122'		
125								
127		SAND & GRAV	30,40,50,55	10"	Fine to coarse SAND & GRAVEL, some Silt, little Clay.	S-57 125'-127'	NA	
<p>Well Construction Details</p> <p>4" Steel Standpipe 0-118' Portland cement-bentonite slurry grout 118-120' Bentonite chip seal 120-127' Sand filter pack 122-127' 0.010" slotted PVC well screen 127' Bottom of borehole</p>								

DRILLING LOG for Well #: MW-268B

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Jim		
Date Started:	30-Dec-02	Date Finished:	30-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	Drive and Wash/Air Rotary		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	148'	Type:	PVC
Boring Depth:	153'	Well Depth:	152.88'	Boring Diam.:	8"
Surface Elev.:	121.46'	MP:	PVC	Depth to GW:	6.20'
		MP Elev.:	122.34'		

Notes: Depth to GW measured on 1/15/03

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
10					Well Construction Details			
20					6 1/2" Steel Standpipe			
30					0-133' Steel Casing			
40					0'-144' Portland Cement-Bentonite Slurry			
50					Grout			
60					144'-146' Bentonite Chip Seal			
70					146'-153' Sand Filter Pack			
80					148'-153' 0.010" Slotted PVC Well Screen			
90					153' Bottom of borehole			
100								
110								
120								
130								
140								
150								
160					Bottom of Boring at 153' bgs.			

Key to Well Construction

- | | | | | | |
|--|----------------|--|-------------|--|--------------|
| | Sandpack | | Well Screen | | Grout |
| | Bentonite Seal | | Cement | | Steel Casing |

DRILLING LOG for Well #: MW-269S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Joe Keenan		
Date Started:	17-Dec-02	Date Finished:	17-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam.:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam.:	2"	Length:	10'	Type:	PVC
Boring Depth:	20'	Well Depth:	20'	Boring Diam.:	8"
Surface Elev.:	122.41'	MP:	PVC	Depth to GW:	7.06'
		MP Elev.:	125.54'		

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
2					Well Construction Details: 4" Steel Standpipe 0'-6' Portland Cement and Bentonite Slurry Grout 6'-8' Bentonite Chip Seal 8'-20' #1 Silica Sand Filter Pack 10'-20' 0.010" Slotted PVC Well Screen 20' Bottom of Borehole			
4								
6								
8								
10								
12								
14								
16								
18								
20						Bottom of Boring at 20' bgs Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-269D		

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-269Ma

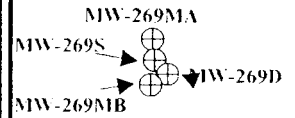


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Joe Keenan		
Date Started:	17-Dec-02	Date Finished:	17-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam.:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam.:	2"	Length:	27'	Type:	PVC
Boring Depth:	32'	Well Depth:	32'	Boring Diam.:	8"
Surface Elev.:	122.36'	MP:	PVC	Depth to GW:	7.30'
	MP Elev.:	124.96'			



Notes:
DTW measured on 1/07/03

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc (ppm) spoon HS	Lab Sample # & Analyses
2					Well Construction Details: 4" Steel Standpipe 0'-23' Portland Cement and Bentonite Slurry Grout 23'-25' Bentonite Chip Seal 25'-32' #1 Silica Sand Filter Pack 27'-32' 0.010" Slotted PVC Well Screen 32' Bottom of Borehole			
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26						Bottom of Boring at 32' bgs Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-269D		
28								
30								
32								

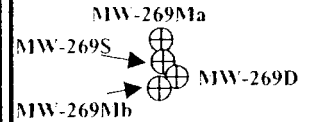
Key to Well Construction

- | | | | | | |
|--|----------------|--|-------------|--|-------------|
| | Sandpack | | Well Screen | | Grout |
| | Bentonite Seal | | Cement | | Native Fill |

DRILLING LOG for Well #: MW-269Mb

ERM
399 Baylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Notes:
DTW measured on 1/07/03

Project:	Raytheon-Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Joe Keenan		
Date Started:	17-Dec-02	Date Finished:	17-Dec-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA/Drive and Wash		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	74'	Type:	PVC
Boring Depth:	84'	Well Depth:	84'	Boring Diam.:	8"
Surface Elev.:	122.17'	MP:	PVC	Depth to GW:	9.43'
		MP Elev.:	125.42'		

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
4					Well Construction Details:			
8					4" Steel Standpipe			
12					0'-70' Portland Cement and Bentonite Slurry Grout			
16					70'-72' Bentonite Chip Seal			
20					72'-84' #1 Silica Sand Filter Pack			
24					74'-84' 0.010" Slotted PVC Well Screen			
28					84' Bottom of Borehole			
32								
36								
40								
44								
48								
52								
56								
60								
64								
68								
72								
76								
80								
84					Bottom of Boring at 84' bgs			
					Note: Screen interval based on PID readings and soil descriptions presented on drilling log MW-269D			

Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

DRILLING LOG for Well #: MW-269D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP

Notes:
DTW measured on 1/07/03

Project:	Raytheon - Wayland	Project Number:	143.68		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc	Driller:	Joe Keenan		
Date Started:	10-Dec-02	Date Finished:	17-Dec-02		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA Drive and Wash		
Screen Diam.:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam.:	2"	Length:	139'	Type:	PVC
Boring Depth:	144'	Well Depth:	144'	Boring Diam.:	8"
Surface Elev.:	122.14'	MP:	PVC	Depth to GW:	9.62'
		MP Elev.:	125.34		

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
2								
4								
5		SAND	4,4,5,6	19"	Top 0.2': brown/black Silt and Cobbles, bottom 1.4' brown-orange/brown fine to medium SAND, some coarse SAND interbeds, some orange-black horizontal bedding throughout, trace Cobbles, dry.	S-1 4'-6'	NA	
6								
7								
8								
9								
10		SILT	7,11,12,12	13"	Top 0.3': multi-colored poorly sorted Gravel, some to little coarse Sand, unconsolidated; bottom 0.8': gray & orange to brown SILT, little Clay, orange/brown banding throughout.	S-2 9'-11'	NA	
11								
12								
13								
14								
15		SILT	7,7,8,10	14"	Top 0.1': Black/multicolored unconsolidated Gravel; bottom 1.1': gray to orange/brown SILT, little to some Clay, very thin orange/brown/black horizontal bedding throughout.	S-3 14'-16'	NA	
16								
17								
18								
19								
20		SILT	7,7,6,9	12"	Top 0.3': Multi-colored unconsolidated Gravel; bottom 0.7': gray well sorted SILT, little Clay, some dark gray Clay interbeds (1/2").	S-4 19'-21'	1.9	
21								
22								
23								
24								
25		SILT	8,7,9,8	14"	Top 0.1': Gray SILT, some Gravel; bottom 1.1': gray-dark gray well sorted SILT, trace Clay, trace to little dark gray Clay interbeds.	S-5 24'-26'	1.1	
26								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Material

DRILLING LOG for Well #: MW-269D



ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon HS	Lab Sample # & Analyses
64	[Hatched Well Log Column]	SILT & CLAY	7.9, 8.7	12"	Gray gray brown SILT & CLAY, dark gray-brown Clay interbeds (1.4"), regularly spaced.	S-13 64'-66'	2.6	
65								
66								
67								
68								
69								
70		SILT	15.17, 13.11	8"	Gray well sorted SILT, some to little Clay, dark gray-gray brown Clay interbeds (1.4") throughout interval.	S-14 69'-71'	0.0	
71								
72								
73								
74								
75		SILT	9.7, 8.12	12"	Gray to brown-gray well sorted SILT, some to little Clay, trace dark gray Clay interbeds (1.2").	S-15 74'-76'	7.1	
76								
77								
78								
79								
80	SILT	17.16, 18.16	2"	Gray, well sorted SILT, some medium Sand, some medium Silt.	S-16 79'-81'	0.0		
81								
82								
83								
84								
85	SAND	17.25, 32.38	8"	Gray to brown-gray, well sorted fine to coarse SAND, spoon coarsens downward, little to some Silt.	S-17 84'-86'	1.2		
86								
87	SAND	19.22, 27.28	13"	Brown-gray, well sorted medium to coarse SAND, little to trace Silt.	S-18 86'-88'	1.1		
88								
89	SAND	25.22, 18.23	13"	Gray, well sorted medium to fine SAND, trace Silt, trace Clay.	S-19 88'-90'	1.4		
90								
91	SAND	27.34, 24.30	13"	Gray, well sorted coarse to fine SAND, fine interval at top half of spoon, coarser at bottom half, trace bedding of darker sediments, little to trace Clay.	S-20 90'-92'	0.8		
92								
93	SAND	19.30, 28.26	14"	Gray, well sorted, fine to medium SAND, little Silt.	S-21 92'-94'	0.8		
94								
95	SAND	24.28, 37.38	16"	Gray, well sorted fine to medium SAND, some Silt, little dark gray Clay interbeds.	S-22 94'-96'	1.0		
96								
97	SAND	27.26, 27.24	NR	Gray, well sorted fine to medium SAND, fining downwards, trace Clay interval (1/2").	S-23 96'-98'	0.3		
98								
99	SAND	24.29, 30.30	13"	Gray to gray-brown fine to medium SAND, little Silt, minor horizontal bedding of darker sediment.	S-24 98'-100'	0.6		
100								

DRILLING LOG for Well #: MW-269D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blow count per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
138								
139								
140								
141		SAND	22, 78, 102, 120	20"	Gray to brown to multicolored fine to medium SAND, some Silt, some Gravel, poorly sorted.	S-42 140'-142'	0.0	
142								
143								
144		BEDROCK	120.2"	2"	Large rock fragment, small black rock chips		0.0	
145					Bottom of Boring at 145' bgs.			
					<p align="center">Well Construction Details</p> <p>4" Steel Standpipe 0-135' Portland Cement-Bentonite Slurry Grout 135'-137' Bentonite Chip Seal 137'-144' Sand Filter Pack 139'-144' 0.010" Slotted PVC Well Screen 145' Bottom of Borehole</p>			