DRILLING LOG for Project: Raytheon-Wayland Client: Raytheon	Well #: MW-1S ERM 399 Bo ylston Street, 6th Floor Bos ton, MA 021 16 143.69 Logged by: Michael Horesh	SITE MAP
Drilling Co:Geosearch, Inc.Date Started:26-Jun-02Location:Wayland, MAScreen Diam:2"Casing Diam:2"	Driller: Joe Keenan Date Finished: 26-Jun-02 Drilling Method: 4.25" ID HSA Length: 10' Slot Size: 0.010" Length: 5' Type: PVC	Wastewater Treatement Area MW-44 Cluster
Boring Depth: 16' Surface Elev.: NA	Well Depth:15'Boring Diam.:4"MP:TOCDepth to GW:12.87'MP Elev.:NA	Notes: DTW measured on 7/10/2002
Depth Well Log Stratigraphy Blowcounts per 6 inches	Recovery Split Spoon Description/Soil Classification	Sample #PID Conc. (ppm)Lab Sample # && Depthspoon/HSAnalyses
1 2 3 4 5 6 7 6 7 8 9 10 11 11 12 12 13 5 H T &		S-1
■ 14 ■ SILT & 6-5-5-5 ■ 15 ■ CLAY	14" Medium to dark brown SILT and CLAY, well sorted, moist, Clay interbeds, dark gray coarse Sand lense 4" from bottom.	S-1 0.0 13'-15'
- 16	Bottom of Boring at 16' bgs	
- 17 - - 18 - - 19 -	Well Construction Details Protective Steel Standpipe	
- 20 - - 21 - - 22 -	 0'-1' Concrete Surface Seal 1'-2' Portland Cement and Bentonite Slurry Grout 2'-3' Bentonite Chip Seal 3'-16' #1 Silica Sand Filter Pack 	
23 - 24 - 25 - 25 - 25 - 27 - 27 - 27 - 27 - 27	5'-15'0.010" Slotted PVC Well Screen16'Bottom of boring	

Key to Well Construction

Sandpack

Well Screen E Ħ Bentonite Seal

Grout

Cement

DR	RILI	I	NG LO	G for W	ell #:	MW-1M	399	RM 9 Boylston Street, 6th Floor ston, MA 02116	SITE MA		≜
Projec			Raytheon-Wa				ERM Box 143.69	ston, MA 02110		4W-1S	Ň
Client			Raytheon	<i></i>			Michael Horesh				
Drillir	ig Co:		Geosearch, In	c.			Joe Keenan				Driveway
Date S	started:		26-Jun-02			Date Finished:	26-Jun-02		Waste		
Locati	on:		Wayland, MA	L		Drilling Method:	4.25" ID HSA		Ai	ea	
	n Diam:		2"		Length:	5'	Slot Size:	0.010"		MW	7-44 Cluster ⊕
	g Diam:	-	2" 41'		Length: Well Depth:	35' 40	Type:	PVC 8"			
	g Depth e Elev.:		41		MP:	40	Boring Diam.: Depth to GW:		Notes:	DTW measu	ured on
Surrac	C LICV.				MP Elev.:			10.20	110105.	7/10/2002	
Depth	Well	Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split S	Spoon Description/So	oil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
		$\overline{\mathcal{D}}$									
- 3 -						Well Constructi	ion Dotaila				7
- 6 -											
9						Protective Steel	Standpipe				_
12						0'-1' Co	oncrete Surface Seal				
						1'-30' Por	rtland Cement and B	entonite Slurry Grout			7
15						—	ntonite Chip Seal	entonice blurry Grout			_
- 18 -											-
- 21 -						33'-41' #1	Silica Sand Filter Pa	ck			
24						35'-40' 0.0	010" Slotted PVC We	ell Screen			_
						41' Bo	ttom of Borehole				
27											
30 -	///					-					
- 33 -	: • :					_					
36						_					_
- 39 -						-					_
42											
- 45 -						Bottom of Boring	g at 41' bgs				_
- 48 -						<u> </u>					_
- 51 -						-					_
- 54 -						<u> </u>					_
57						<u> </u>					_
60 -						<u> </u>					_
63						<u> </u>					_
66 -						-					_
69 -											
- 72 -						–					
- 75 -	•	•			Key to Well	Construction			I		
						Sandpack	Well Screen	Grout			
						Bentonite Seal	Cement	Native Fill			

DF Projec		LING Raytheo		OG for V	Well #	Project Number:	ERM 399 B Bosto 143.69	b ylston Stræt, 6th Floor on, MA 02116		E MA		T _N
Clien		Raytheo		5		Logged by:	Michael Horesh		MW-	M		
Drilli	ng Co:	Geosea	rch, 1	Inc.		Driller:	Joe Keenan		11			Driveway
Date	Started:	24-Jun	-02			Date Finished:	24-Jun-02		11		tewater tement	
Locat	tion:	Wayla	nd, N	ЛА		Drilling Method:	4.25" ID HSA		11		irea	
	n Diam:	2"			Length:	5'	Slot Size:	0.010"		-	MV	V-44 Cluster
Casin	g Diam:	2"			Length:	50'	Type:	PVC	11			Ð
	g Depth:	58'			Well Dep	oth: 55'	Boring Diam.:	4"				
Surfa	ce Elev.:				MP:	TOC	Depth to GW:	16.26'	Note	s:	DTW meas	ured on
					MP Elev		-				7/10/2002	
										1 //	PID Conc.	
Depth	Well L	.og Stratig	raphy	Blowcounts per 6 inches	Recovery	Split Spo	oon Description	/Soil Classification	Samj & D		(ppm) spoon/HS	Lab Sample # & Analyses
1		SAL	JD	6 11 9 6	12"	Medium to dark b	rown, coarse SA	AND, trace Gravel, trace	S	.1	0.0	
- 1 -		III SAN	ND	6-11-8-6	12.	Dahhlag day wall	antal anna da	nly hannya Gilt yy/ an ot file of	s. 0'-	21	0.0	-
2 -						Peobles dry, well s	sorted, some da	rk brown Silt w/ root fiber	s. 0·	Z		
2												
_ 3 _						-						-
- 4 -	-					–						-
-												
- 5 -							с с с с с х х	G'1(11 (1	0	~		
6 -		SAN	٨D	4-5-5-12	18"	Medium to dark bi	rown, fine SAN	D, some Silt, well sorted,	S	·2	0.0	-
_						moist; top two inc	hes dark brown	, coarse SAND, dry.	5'-	.7'		
- 7 -								· · ·				
8 -						_						-
- 9 -						-						-
10						_						
		SILT	Γ&	2256	1.7.1	Medium brown S	ILT and CLAY	well sorted, moist, dense,	S	.3	0.0	
- 11 -		CLA	٩Y	3-3-5-6-	15"	11 1/1	,		1.01	1.01	0.0	-
12 -						some black/brown	n staining.		10'-	-12		=
12										ļ		
- 13 -						-						-
14						–						_
										ļ		
- 15 -		OIL 7	Г Ø-			Modium hearen OI	IT and CLAY	well sorted, moist, dense	S	4		
- 16 -		SILT		2-3-3-5	16"	Medium brown SI	LT and CLAY,	, well softed, moist, dense,	5.	4	0.0	-
1.5		CLA	4 Y			coarse Sand lenses	s, dark gray Cla	y lenses.	15'-	-17'		
17 -						_						
18						-				ļ		_
10												
- 19 -						-						-
- 20 -						_						-
						Brown, fine SANI	D, trace Silt, we	ell sorted, saturated,	S	.5		
- 21 -		SAN	٧D	WOR-2-2-4	14"	-					0.0	-
22 -						orange horizontal	staining, little b	brown Silt and Clay.	20'-	-22'		
- 23 -						F						-
24 -						L						_
_ 25 _						-						-
					-	Vell Construction						
WOR	= Weight	t of Rod				Sandpack	Well Screen	Grout				

Sandpack Bentonite Seal

Well Screen Cement

Native Backfill

DR	RILLIN	NG LO)G for W	ell #:	MW-1D ERM S99 Bo ylst on Street, 6th Floor Boston, MA 021 16	Page	2	of 3
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 26 - 27 -		SAND	WOR-WOR- WOR+H-1	10"	Brown fine SAND, trace Silt, well sorted, saturated, some orange, layered staining.	S-6 25'-27'	N/A	_
- 28 - - 29 -					-			-
- 30 - 31 - 32		SAND	2-3-3-3	17"	Brown fine SAND, trace Silt, well sorted, saturated, minor layering of sediments.	S-7 30'-32'	0.0	_
- 33 - - 34 - - 35 -					-			
- 33 - 36 - 37		SAND	3-4-5-5	24"	Gray fine SAND well sorted, very moist to saturated, dark gray, thin Clay interbeds, orange-stained interbeds.	S-8 35'-37'	0.0	
- 38 - - 39 - - 40 -								-
- 41 - 42 -		SILT	wor-wor- 3-2	18"	Medium gray SILT, trace fine Sand, moist to saturated, minor bedding, dark gray Clay interbeds.	S-9 40'-42'	0.0	_
- 43 - - 44 - - 45 -					-			-
-43 -46 -47		SILT	3-7-9-14	18"	Brown/gray SILT, little Clay, moist to saturated, dark gray Clay interbed (1/2") at top of interval	S-10 45'-47'	0.0	
- 48 - - 49 -					-			-
- 50 - 51 - 52		SAND & GRAVEL	10-18-17-17	24"	Top 12": lt. brown fine SAND, some Silt, moist. Bottom 12": Blue-gray GRAVEL, some Sand, moist.	S-11 50'-52'	0.0	_
- 53 - 54 - 55 -					-			-

DRILLIN -	NG LO	OG for W	Vell #:	MW-1D ERM 399 Bo ylston Street, 6th Floor Boston, MA 021 16	Page	3	of 3
Depth Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 55 - - 56 -	TILL	27-25-29-22	22"	Gray/brown GRAVEL, trace Sand, trace Silt, saturated.	S-12 55'-57'	0.0	_
- 57 - 58 - 50	TILL	80-59-27-29	21"	Gray/brown gravel, little SAND, little clasts, round and angular, poorly sorted, moist to saturated.	S-13 56'-58'	0.0	-
- 59 - - 60 - - 61 -				Bottom of Boring at 58' bgs			_
- 62 - - 63 -				Well Construction Details			_
- 64 - - 65 -				Protective Steel Standpipe 0'-1' Concrete Surface Seal			_
-66 - -67 -				1'-45' Native Backfill45'-48' Portland Cement and Bentonite Slurry Grout			_
- 68 - - 69 -				48'-58'#1 Silica Sand Filter Pack50'-55'0.010" Slotted PVC Well Screen			_
- 70 - 71 -				58' Bottom of boring			_
-72 - 73 -							_
- 74 - - 75 -							_
-76 - -77 -							
- 78 -							_
- 80 -							
-81 - -82 -				-			
- 83 - - 84 - - 85 -				-			-

DRILLING LOG for Well #: Project: Raytheon-Wayland Client: Raytheon Drilling Co: Geosearch, Inc. Date Started: 20-Jul-02 Location: Wayland, MA Screen Diam: 2" Length: Casing Diam: 2" Length: Boring Depth: 22' Well Depth:	Driller:JoeDate Finished:20-Jul-02Drilling Method:4.25" ID HSA10'Slot Size:0.010"12'Type:PVC22'Boring Diam.:8"	SITE MAP N Parking Lot Main Driveway MW-2015 MW	
Surface Elev.: 132.5' MP: MP Elev.:	TOC Depth to GW: 19.47' 132.38'	Notes:	
Depth Well Log Stratigraphy Blowcounts per 6 inches Recovery	Split Spoon Description/Soil Classification	Sample # PID C Sample # (pp & Depth spoor	m) Lab Sample # &
- 1			
= 8 = = 9 =	Brown, medium SAND, trace coarse Sand, some fine Sand, dry.	S-1 8'-10' 0.	0
- 11 - 11 SAND 8-11-15-22 12"	Light brown fine-medium SAND, trace Silt, dry.	S-2 10'-12' 0.	0
= 12 =	Light brown fine-medium SAND, little Gravel, little coarse Sand, dry.	S-3 12'-14' 0.	0
= 14 =	Light brown fine-medium SAND, well sorted, moist.	S-4 0. 14'-16'	0
= 16 - SAND & SAND & GRAVEL 15-17-17-18 16"	Brown fine-medium SAND & GRAVEL, trace Silt, moist to wet.	S-5 0.	0 -
- 18 - SAND & 6-10-8-6 12"	Brown medium-coarse SAND & GRAVEL, wet.	S-6 18'-20'	0 -
= 20 = SAND & SAND & GRAVEL 15-16-16-11 10"	Brown medium-coarse SAND & GRAVEL, wet.	S-7 0. 20'-22'	0 -
- 22 - 23 - - 23 -	Bottom of Boring at 22' bgs.		-
- 24 - 25 -	Well Construction Details on Following Page		

Key to Well Construction Sandpack

Bentonite Seal

Well Screen

Cement

Native Fill

DF	RILLI	NG L	OG fo	or We	II #: MW-201S ERM Bos ton, MA 021 16	Page 2 of 2			
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # a Analyses	
					_				
					Well Construction Details:				
_					Protective Flushmount Roadbox			-	
_					0'-1' Concrete Surface Seal			-	
_					1'-9' Native Backfill			-	
_					9'-11' Bentonite Chip Seal			-	
_					11'-22' #1 Silica Sand Filter Pack				
_					12'-22' 0.010" Slotted PVC Well Screen				
_					22' Bottom of Boring				
_					_				
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חם)G for V	Voll #•	MW-201M	ERN 399 E	A Boylston Street, 6th Floor on, MA 02116	SITE MA	AP	Existing
Projec		aytheon-Waylar		vui #.	Project Number:	ERM Bost 143.69	011, IVIA 021 10	ŢΝ		Buiilding
Client		aytheon aytheon	lu		Logged by:	Mark Ciriello		-		
Drillin		eosearch, Inc.			Driller:	Joe Keenan		Parking Lot	MW-201D	
	started: 2				Date Finished:	20-Jul-02		Main	」 ↓	\vdash
Locati	on: V	Vayland, MA			Drilling Method:	4.25" ID HSA		Driveway		
	n Diam:	2"		Length:	5'	Slot Size:	0.010"	MW-	2015 MW-201M	
	g Diam:	2"		Length:	22'	Type:	PVC		MW-201M	
	g Depth:	27'		Well Depth:	27'	Boring Diam.:	8"	Notes:		
Surfac	e Elev.:	132.5'		MP: MP Elev.:	TOC 132.19'	Depth to GW:	18.27'	Notes:		
				WII Elev	132.19					
			Blowcounts per 6					Sample #	PID Conc. (ppm)	Lab Sample # &
Depth	Well Lo	g Stratigraphy	inches	Recovery	Split Spoo	on Description/So	oil Classification	& Depth	spoon/HS	Analyses
		ŧ								
┝╵┥	# ₿	ŧ								-
2	<u> </u>	Ħ			Soil samples coll	ected at MW-201	IS.			_
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- 7 -		0			 -					-
8	11 1									
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- 9 -					-					_
- 10 -	11 1				—					_
	11 1	0								
	11 1				Γ					
- 12 -	11 1	0			-					_
13					_					_
14	11 1									
- 14 -		0			Γ					1
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- 16 -		0			–					_
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_ 25 _					L					
- 20	<u> </u>	1		Key to Well	Construction					
					Sandpack	Well Screen	Grout			
				4 <u>1 4 1</u>	Bentonite Seal					
					Bentonne Seal	Cement	Native Fill			

DRILLI	NG L	OG fo	or We	II #: MW-201M ERM Boy Iston Street, 6th Floor Boston, MA 02116	Page	2 of	2
Depth Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
Depth Well Log 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Stratigraphy		Recovery 1.2"	Split Spoon Description/Soil Classification Gray fine SAND, wet. Soil oxidant demand sample collected. Bottom of boring at 30'. Well Construction Details: Protective Flushmount Roadbox 0'-2' Concrete Surface Seal 2'-18' Portland Cement & Bentonite Slurry Grout 18'-20' Bentonite Chip Seal		(ppm)	
 43 44 45 46 47 48 49 50 51 52 53 54 55 				 20'-32' #1 Silica Sand Filter Pack 22'-27' 0.010" Slotted PVC Well Screen 30' Bottom of Boring 			

				ERI	M	SITE MA	P	
DRILLI	NG LOG for W	ell #•	MW-201D	3991	Boylston Street, 6th Floor ton, MA 02116	N		Existing
Project:	Raytheon-Wayland		Project Number: 143.69		1011, 19174 021 10			Buiilding
Client:	Raytheon		Logged by: Matt D			Parking Lot		
Drilling Co:	Geosearch, Inc.		Driller: Joe Ke	•		a arking Lot	MW-201D	
Date Started:	20-Jul-02		Date Finished: 20-Jul-			Main	'↓ ↓	
Location:	Wayland, MA		Drilling Method: 4.25" I			Driveway		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"	MW-2		
Casing Diam:	2"	Length:	60'	Type:	PVC	_	MW-201M	
Boring Depth:	65'	Well Depth:	65'	Boring Diam.:	8"			
Surface Elev.:	132.5'	MP:	TOC	Depth to GW:	19.04'	Notes:		
		MP Elev.:	132.10'	_				
							PID Conc.	
Depth Well Log	Blowcounts per 6 Stratigraphy inches	Recovery	Split Spoor	Description/Soil	Classification	Sample # & Depth	(ppm) spoon/HS	Lab Sample # & Analyses
- Hen Bog		Recovery	Spin Spool	Description/Son	Classification	& Deptii	spoon/HS	Anaryses
3								
			Well Construction D	etails				
- 6 -								-
9 -			Protective Flushmoun	t Roadbox				_
12			0'-2' Concrete Su	rface Seal				
- 12 -			2'-15' Native Back					
- 15 -			—					-
- 18 -			15'-56' Portland Cer	ment & Bentonite	e Slurry Grout			_
			56'-58' Bentonite Cl	hip Seal				
- 21			_	nd Filter Pack				_
- 24 -			58'-65' #1 Silica Sar	nd Filter Pack				_
			60'-65' 0.010" Slotte	ed PVC Well Scr	een			_
			65' Bottom of B	oring				
- 30 -				onng				
- 33 -			-					_
- 36 -								
- 39 -			-					
- 42			_					_
45								
- 48 -								-
- 51 -			-					_
- 57 -			–					-
- 60 -								
- 63 -			-					
- 66 -	1 1		Bottom of Domine of (5' bas				-
69			Bottom of Boring at 6	o ogs.				
- 72 -								-
- 75 -								_
		Key to Well						
			Sandpack Entonite Seal	Well Screen	Grout			
			Bentonite Seal	Cement	Native Fill			

Discultation Construct and the second with the second									ERM	ylst on Street, 6th Floor	SITE M.	AP	▲
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	DR	RIL		NG LC)G for W	/ell #:	MW-202S		Bos ton	n, MA 02116			Ņ
Date State: 20-Jalo2 Definition 20-Jalo2 Marched Current allowed and the state and the stat	Projec	t:			nd						Lot		
Date State: 20-Jalo2 Definition 20-Jalo2 Marched Current allowed and the state and the stat			Ray	theon				Mark Cirie	ello		g		Fristing
Date State: 20-Juli2 20-Juli2 March March Server Dum: 2* Longht 10" Slet Size: 0.010" Six size: 0.010" Server Dum: 2* Longht 12" Type PVC Boring Dorph 22 Well Dept 22" Boring Darph 12" Depth 22" Boring Darph 17" Notes: Surface Lev: MP Elev: 10" Split Spoon Description/Soil Classification Sample # Indo server Analyses 1 4 5 6									Fluck		arki		-
Screen Dum 2" Length 10° Star Size 0.010° ww.sine 0000° Boring Dom 22' Well Depth: 22' Boring Dam: 9° Notes: Surface law: MP TOC Depth to GW: 17 Notes: Notes: Depth well Depth: 20' Split Spoon Description/Soil Classification Sample # $nnd point = 0$ 1 Sample # Notes: Notes: Notes: Notes: 1 Source point = 0 Source point = 0 Sample # $nnd point = 0$ Analyses 1 Sample # Notes: Sample # $nnd point = 0$ $nnd point = 0$ $nnd point = 0$ 2 Sample # Notes: Sample # $nnd point = 0$ $nnd point = 0$ $nnd point = 0$ 3 Sample # Notes: Sample # $nnd point = 0$ $nnd point = 0$ $nnd point = 0$ 4 Sample # Notes: Sample # $nnd point = 0$ $nnd point = 0$ $nnd point = 0$ 10 Sample # Sample # Notes: $nnd point = 0$ $nnd point = 0$	Date S	tarted:	20-J	Jul-02				20-Jul-02			<u>с</u> ,	MW-202M	Building
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Locati	on:	Way	yland, MA			Drilling Method:	4.25" ID H	ISA			↓	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Screen	Diam:	-			Length:		Slot Size:			MW	-202D 000	MW-202S
MP:	Casing	g Diam:		2"				• •					
MP Elev: Depth Well Log Soutgards Recovery Split Spoon Description/Soil Classification Sumple # $\frac{MDCover}{spoonTis}$ Lab Sample # A Analyses 1 2 3 4 5 6 5 6 7 8 9 SAND 9-10-13-12 12" Light brown, fine to medium SAND, trace Silt, dry. $\frac{5-1}{8-10^{\circ}}$ 6.0 - 11 5 5 6 -	Boring	g Depth	:	22'		Well Depth:	22'	Boring Dia	am.:	8"			
Josph Well Log Sample ff Buomagne ff Recovery Split Spoon Description/Soil Classification Sample ff PD Conc (pm) Lab Sample ff 1 2 3 4 5 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 8 9 9 14* 12* Light brown, fine to medium SAND, trace Silt, dry. 5-1 6 6 7 6 7 7 8 9 9 14* 12* Light brown, medium SAND, trace Silt, dry. 5-1 6 6 7 7 8 9 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* 10* 12* <td>Surfac</td> <td>e Elev.</td> <td>:</td> <td></td> <td></td> <td>MP:</td> <td>TOC</td> <td>Depth to G</td> <td>W:</td> <td>17'</td> <td>Notes:</td> <td></td> <td></td>	Surfac	e Elev.	:			MP:	TOC	Depth to G	W:	17'	Notes:		
Deph Well Log smarge μ Beacewayer h Split Spoon Description/Soil Classification Sumple μ (ppm) for Analyses Lab Sample μ Lab Sample μ (ppm) for Analyses						MP Elev.:							
Depth Well Log sampung weight is sample if second sport storway Split Spoon Description/Soil Classification Sumple if second sport (mm) Lab Sample if second sport Lab Sample if second sport (mm) Lab Lab Sample if second sport (mm) Lab												DID Cana	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					Blowcounts per 6						*	(ppm)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Depth	Well I	Log	Stratigraphy	inches	Recovery	Split Spo	on Description	n/Soil	Classification	& Depth	spoon/HS	Analyses
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19SAND7-8-10-1210"Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry.S-6 18'-20'0.020SAND5-9-9-910"Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry.S-7 20'-22'0.021SAND5-9-9-910"Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry.S-7 20'-22'0.0	- 17	8E		DIND	<i>y</i> -10- <i>y</i> - <i>i</i>	2	gray/brown fine	Sand and Silt,	, dry.		16'-18'	0.0	
19 SAND 7-8-10-12 10" gray/brown fine Sand and Silt, dry. 18'-20' 0.0 20 SAND 5-9-9-9 10" Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry. 8-7 20'-22' 0.0 21 SAND 5-9-9-9 10" Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry. 8-7 20'-22' 0.0 23 SAND Sand Sand Sand Sand Sand Sand	18	11 E					<u> </u>						_
20 gray/brown fine Sand and Silt, dry. 18'-20' 21 SAND 5-9-9-9 10" Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry. S-7 20'-22' 23 23 0.0 0.0	10	1		SAND	7 8 10 12	10"						0.0	
21 SAND 5-9-9-9 10" Light brown, fine to medium SAND, trace SILT, some gray/brown fine Sand and Silt, dry. S-7 20'-22' 0.0 22 23 - <t< td=""><td>19</td><td>::E</td><td></td><td>SAND</td><td>/-0-10-12</td><td>10</td><td>gray/brown fine</td><td>Sand and Silt,</td><td>, dry.</td><td></td><td>18'-20'</td><td>0.0</td><td> 7</td></t<>	19	::E		SAND	/-0-10-12	10	gray/brown fine	Sand and Silt,	, dry.		18'-20'	0.0	7
21 SAND 5-9-9-9 10" gray/brown fine Sand and Silt, dry. 20'-22' 0.0 22 23 - - - - - -	20	1					<u> </u>				_		
22 gray/brown fine Sand and Silt, dry. 20-22	21	!:≡		SAND	5000	10"					S-7	0.0	
- 23 -	21	∷⊟		SAND	5-7-7-7	10	gray/brown fine	Sand and Silt,	, dry.		20'-22'	0.0	7
	22						<u> </u>				_		
	22												
							Γ						7
	24 -						┣ ━						-
Well Construction Data on Following Page	25		1				Well Construction	on Data on Fo	llowi	ng Page			

Key to Well Construction

Sandpack

Bentonite Seal

Well Screen Cement

Native Fill

DF	RILLING L	Page	2 of	2			
Depth	Well Log Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
Depth	Well Log Stratigraphy Well Log Stratigraphy Image: Stratigraphy Image: Stratign Image: S		Recovery	Split Spoon Description/Soil Classification Well Construction Details: Protective Flushmount Roadbox 0-1' Cement Surface Seal 1'-9' Native Material 9'-11' Bentonite Chip Seal 11'-22' #1 Silica Sand Filter Pack 12'-22' 0.010" Slotted PVC Well Screen 22' Bottom of Borehole			

DRILLING LOG for W Project: Raytheon-Wayland Client: Raytheon Drilling Co: Geosearch, Inc. Date Started: 20-Jul-02 Location: Wayland, MA Screen Diam: 2" Casing Diam: 2" Boring Depth: 33' Surface Elev.:	ell #: Length: Length: Well Depth: MP: MP Elev.:	MW-202M Project Number: Logged by: Driller: Date Finished: Drilling Method: 5' 28' 33' TOC	ERM 399 Bo ylston Street, 6th Floor 399 Bo ylston Street, 6th Floor 399 Bo ylston Street, 6th Floor Boston, MA 02116 143.69 Mark Ciriello Jeremiah Fluck 20-Jul-02 4.25" ID HSA Slot Size: 0.010" PVC Boring Diam.: 8" Depth to GW: 17'	SITE MA	MW-202M	N Existing Building MW-2028
Depth Well Log Stratigraphy Blowcounts per 6 inches 3 - - - - 3 - - - - 9 - - - - 12 - - - - 15 - - - - 18 - - - - 21 - - - - 24 - - - - 30 - - - - 33 - - - - 36 - - - - 37 - - - - 38 - - - - 42 - - - - - 48 - - - - - 51 - - - - - 60 - - - - - <tr td=""> - - <</tr>	Recovery	Well Construct Protective Fluss 0-1' 1'-17' 17'-26' 26'-27' 27'-33' 28'-33' 33' Bottom of Born	Shmount Roadbox Concrete Surface Seal Native Fill Portland Cement and Bentonite Slurry Grout Bentonite Chip Seal #1 Silica Sand Filter Pack 0.010" Slotted PVC Well Screen Bottom of Borehole	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
		Sandpack Bentonite Seal	Well Screen Grout Cement Native Fill			

DRILI	LING LO	G for W	ell #:	MW-202D		ERM 399 I ERM Bost	M Boylston Stræt, 6th Floor ron, MA 02116	SITE MA	AP.	Å N
Project:	Raytheon-Wa			Project Number:	143.69			of .		
Client:	Raytheon			Logged by:	Mark Ciri	iello		Parking Lot		Existing
Drilling Co:	Geosearch, In	c.		Driller:	Jeremiah	Fluck		arki		Existing
Date Started:	20-Jul-02			Date Finished:	20-Jul-02			<u>с</u>	MW-202M	Building
Location:	Wayland, MA			Drilling Method:	4.25" ID	HSA			¥	
Screen Diam:			Length:	5'		Slot Size:	0.010"	MW-	202D OOO	MW-2028
Casing Diam:	2"		Length:	51'		Type:	PVC	_		
Boring Depth:			Well Depth:	-		Boring Diam .:	8"			
Surface Elev.:			MP:	TOC		Depth to GW:	17'	Notes:		
			MP Elev.:							
Depth Well I		Blowcounts per 6 inches	Recovery	Spli	t Spoon E	Description/Soi	l Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 3 - - 6 - - 9 - - 12 - - 15 - - 18 -				Well Construct Protective Flus 0-1' 1'-17'	shmount F	Roadbox te Surface Seal	l			
				17'-49'	Portland	d Cement and I	Bentonite Slurry Grout			
				49'-50'	Bentoni	ite Chip Seal				
- 24 -				50'-56'		a Sand Filter P	Dack			-
-27										_
- 30 -				51'-56'	0.010" \$	Slotted PVC W	ell Screen			_
- 33 -				56'	Bottom	of Borehole				_
- 36 -				-						_
- 39 -				_						_
42										
- 45 -										
- 48 -										
- 51 -				_						
- 54 -				_						
- 57 -				Bottom of Bor	ing at 56'	bgs.				_
- 60 -				-						_
- 63 -				–						_
- 66 -				_						_
- 69 -										
- 72 -										_
75 -			17 , 117 "							_
			Key to Well			Well Screen	Grout			
			-1-1	Sandpack Bentonite Seal		Cement	Native Fill			

DF	RILLI	NG L	OG for V	Vell #:	MW-203S		M Boylston Street, 6th Floor ton, MA 021 16	SITE M.	AP	N N
Projec	-	ytheon-Wayla	and		Project Number:	143.69		MW-2038		
Client		ytheon			Logged by:	Jessica Eckhardt		1		
	· _	eosearch, Inc.			Driller:	Dave Crawford		∲ ⊕₽₽▲́^^	1W-203M	
	Started:	20-Jul-02			Date Finished:	20-Jul-02		7		Existing
Locat		Wayland, M	A	T -1	Drilling Method:	4.25" ID HSA	0.010#	MW-203D		Building
	n Diam:	2"		Length:	5'	Slot Size:	0.010"			Dunung
	g Diam: g Depth:	2" 22'		Length: Well Depth:	17' 22'	Type: Boring Diam.:	PVC 8"			
	g Depui:	132.8'		MP:	TOC	Depth to GW:	8 19.98'	Notes:	L	
Sulla		1.52.0		MP. MP Elev.:	132.50'		17.70	110105.		
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spo	on Description/So	il Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 1 -	₩₩				-					-
2					-					_
- 3 -					-					-
- 4 -					-					
5										
~ ~					_					_
- 6 -					-					_
7					_					_
^]										
- 8 -					-					-
- 9 -					-					-
10										
10		SAND &			Ton 3". Brown	coarse GRAVEL,		S-1		
- 11 -		GRAVEL	11-20-20-17	7"		ht brown fine SAN			0.0	-
- 12 -		1					···= ; •··· ; •	10'-12'		_
		1	20 21 21 21	0				S-2	0.0	
- 13 -		1 -	20-21-21-21	0	-	NR		12'-14'	0.0	-
-14 -		<u> </u>								
- 15 -		SAND	9-11-10-21	16"		erval, fine to coar	rse SAND, trace of	S-3	0.0	
			7-11-10-21	10	Gravel, tan; dry.			14'-16'	0.0	
- 16 -		1					~			_
- 17 -		SAND	20-18-12-12	18"			race Gravel, dark brown	S-4	0.0	
		1			Sandy Silt to fine	e Sandy Silt; botto	om 4'' moist.	16'-18'		
- 18 -		-			Description of the second second	madium Cross 1	with CAND			
- 19 -		SAND	6-9-9-10	9"			with SAND, some	S-5	0.0	_
20					Cobbles, saturate	su.		18'-20'		
		1			Brown coarse to	med SAND w/ i	nterbeds of med. Gravel,	S-6		
21 -		SAND	9-10-21-11	19"	yellow coloration		nerocus or mea. Oraver,		0.0	-
- 22 -						., 014701.		20'-22'		
					Bottom of Boring	g at 22' bgs.				
- 23 -					- '					-
- 24 -					-					_
					Well Construction	on Details on Follo	owing Page			
- 25 -		1						1		

NR=No Recovery

Key to Well Construction

Bentonite Seal

Sandpack Well Screen Cement

Grout

Native Fill

DF	RILLI	NG L	OG fo	or Well #	: MW-203S ERM Boylston Street, 6th Floor Boston, MA 02116	Page	2 of	2
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					Well Construction Details:			-
					Well Construction Details: Protective Flushmount Roadbox 0'-1' Concrete Surface Seal 1'-9' Native Backfill 9'-11' Bentonite Chip Seal 11'-22' #1 Silica Sand Filter Pack 12'-22' 0.010" Slotted PVC Well Screen 22' Bottom of Boring			

DRILLI	NG LOG for W	ell #:	MW-203M	ERM 399 Bylston Street, 6th Floor ERM Boston, MA 02116	SITE MA	AP	↑ N
Project:	Raytheon-Wayland		Project Number:	143.69	1		
Client:	Raytheon		Logged by:	Jessica Eckhardt	MW-203S		
Drilling Co:	Geosearch, Inc.		Driller:	Dave Crawford	┙ ╓╋╋╋╲╷	1W-203M	
Date Started:	20-Jul-02		Date Finished:	20-Jul-02			E intim
Location:	Wayland, MA		Drilling Method:	4.25" ID HSA	MW-203D		Existing
Screen Diam:	2"	Length:	5'	Slot Size: 0.010"			Building
Casing Diam:	2"	Length:	67'	Type: PVC			
Boring Depth:	43'	Well Depth:	72'	Boring Diam.: 8"			
Surface Elev.:		MP:	TOC	Depth to GW: 19.52'	Notes:		
		MP Elev.:	132.39'				
Depth Well Log		Recovery	Spli	t Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
3 - 6 - 9 - 12 - 15 - 18 - 21 - 24 - 27 - 30 - 33 - 36 - 39 - 42 -			Well Constru Protective Flus 0-1' 1'-18' 18'-34' 34'-36' 36'-43' 38'-43' 43' Bottom of Bor	Shmount Roadbox Concrete Surface Seal Native Material Portland Cement & Bentonite Slurry Grout Bentonite Chip Seal #1 Silica Sand Filter Pack 0.010" Slotted PVC Well Screen Bottom of Borehole			
- 45 - - 48 -			Bottom of Bor	ing at 43' bgs.			_
- 51 -			—				_
- 54 -			-				-
- 57 -			-				-
- 60 -			-				-
- 63 -			-				-
- 66 -			-				
- 69 -			-				
- 72 -							-
75			_				
		Key to Well					
			Sandpack Bentonite Seal	Well Screen III Grout			

DRILLI	NG LOO	G for W	ell #:	MW-203D		3	ERM 99 Boylston Street, 6th Floor loston, MA 02116	SITE MA	Р	↑ N
Project:	Raytheon-Wayl	and		Project Number:	143.69			MW-203S		
Client:	Raytheon			Logged by:	Jessica Eckha	ardt		1		
Drilling Co:	Geosearch, Inc.			Driller:	Dave Crawfo	ord		─ ¥ ⊕₽₽▲́^ ^M	W-203M	
Date Started:	20-Jul-02			Date Finished:	20-Jul-02			- \ -		Existing
Location:	Wayland, MA			Drilling Method:	4.25" ID HSA	A		MW-203D		Building
Screen Diam:	2"		Length:	5'		lot Size:	0.010"	_11		Building
Casing Diam:	2"		Length:	58'		ype:	PVC			
Boring Depth:	63'		Well Depth:	63'		oring Diam				
Surface Elev.:	132.8'		MP:	TOC	D	epth to GW	: 18.52'	Notes:		
			MP Elev.:	132.14'						
Depth Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Spli	t Spoon Dese	cription/S	oil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 3 - - 6 -				Well Construe Protective Flus						-
12				0-1'	Concrete S	Surface Se	eal			
- 15 -				1'-18'	Native Ma					_
- 18 -				18'-54'			Bentonite Slurry Grout			
- 21 -				54'-56'	Bentonite					
- 24 -				56'-63'	#1 Silica S	and Filte	r Pack			_
-27 -				58'-63'	0.010" Slo	tted PVC	Well Screen			_
- 30 -				63'	Bottom of	Borehole	:			_
- 33 -				_						_
- 36 -				-						_
- 39 -				-						_
- 42 -				_						_
- 45 -				_						-
- 48 -										-
- 51 -				_						_
- 54	8			_						-
- 57 -				-						_
- 60 -				-						_
63										
- 66 -				Bottom of Bor	ing at 63' bg	S.				_
- 69 -				-						_
— 72 —				—						_
75										
			Key to Well	Construction						
				Sandpack Bentonite Seal		/ell Screen ement	Grout Image: Matrix Relation			

DRILI	LING LO)G for V	Vell #:	MW-204S ERM 399 Boylston Street, 6th Floor Boston, MA 021 16	SITE M.	AP	↑ N
Project:	Raytheon-Waylar Raytheon			Project Number: 143.69 Logged by: Jessica Eckhardt			
	Geosearch, Inc.			Driller: Artie Cox			
Date Started:	20-Jul-02			Date Finished: 20-Jul-02	MW-2048		
Location:	Wayland, MA	ł		Drilling Method: 4.25" ID HSA	L	MW-204M	
Screen Diam:	2"		Length:	10' Slot Size: 0.010"	⊕⊕⊕▲∕		
Casing Diam:			Length:	12' Type: PVC	٦		
Boring Depth:			Well Depth:		MW-204E		
Surface Elev.:	132.6'		MP:	TOC Depth to GW: 19.63'	Notes:		
			MP Elev.:	132.23'			
Depth Well I	LOg Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
##							
- 1 -				–			_
- 2 -				_			
- 3 -				–			_
- 4 -				-			
5							
				Γ			
- 6 -				-			_
- 7 -				_			
				Light brown-orange med. SAND, well sorted, light orange	S-1		_
- 9 -	SAND	6-6-7-9	18"			1.4	_
- 10 -				stained interbeds; dry to moist.	8'-10'		
_ 11 _	SAND	5-7-10-11	18"	Light brown-orange med. SAND, orange-stained horizontal	S-2	1.9	_
- 11 -	SAND	5-7-10-11	18	beds, fine Sand lens (2"); dry to moist.	10'-12'	1.9	
- ¹²				Tan-brown fine SAND, well sorted, subtle banding, trace	S-3		
- 13 -	SAND	13-15-17-18	18"		5-5	1.6	_
- 14 -				coarse Sand; moist.	12'-14'		
	C AND	5 6 0 11	1.7"	Tan fine SAND, well sorted, some brown coarse Sand, trace	S-4	1.0	
- 15 -	SAND	5-6-9-11	17"	fine Sand; moist.	14'-16'	1.2	_
- 16 -							
- 17 -	SAND	9-10-10-11	15"	Medium-fine brown SAND, well sorted, horizontal bedding	S-5	2.0	_
- 18 -				moist.	16'-18'		
				Light brown medcoarse SAND, trace Gravel, moderate to	S-6		
- 19 -	SAND	9-9-11-13	15"			0.7	
- 20 -				well sorted; saturated.	18'-20'		
- 21 -	SAND &	10-16-14-16	24"	Brown, medcoarse SAND & GRAVEL, moderate to well	S-7	0.7	_
	GRAVEL	10 10 11 10		sorted, trace Cobbles, orange-staining; saturated.	20'-22'	0.7	
22				Bottom of Boring at 22' bgs.			_
- 23 -							-
- 24 -				–			_
_ 25 _							_

Key to Well Construction

Sandpack

Bentonite Seal

Well Screen

Native Fill

DF	RILLI	NG L	OG fo	or We	II #: MW-204S ERM ERM 399 Bo ylston Street, 6th Floor Boston, MA 02116	Page	2 of	2
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # Analyses
	1				Well Construction Details:			
	I				=			,
	I				Protective Flushmount Roadbox			,
	I				0-1' Concrete Surface Seal			
	I				1'-9' Native Material			
_	I				9'-11' Bentonite Chip Seal			
	I				11'-22' #1 Silica Sand Filter Pack			
_	I				12'-22' 0.010" Slotted PVC Well Screen			
_	I				22' Bottom of Borehole			
_	I				_			
_	I				_			
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	1							
					<u> </u>			
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DRILLI	NG LOG for W	ell #:	MW-204M	ERM 399 Bo ylston Street, 6th Floor Boston, MA 021 l6	SITE MA	AP	↑ N-
Project: Client:	Raytheon-Wayland Raytheon		Project Number: Logged by:	143.69 Jessica Eckhardt]		
Drilling Co:	Geosearch, Inc.		Driller:	Artie Cox			
Date Started:	20-Jul-02		Date Finished:	20-Jul-02	MW-204S	MW-204M	
Location:	Wayland, MA		Drilling Method:	4.25" ID HSA		WIW-204WI	
Screen Diam:	2"	Length:	5'	Slot Size: 0.010"	⊕⊕⊕≰∕		
Casing Diam:	2"	Length:	41'	Type: PVC	۲		
Boring Depth:	46'	Well Depth:	46'	Boring Diam.: 8"	MW-204D		
Surface Elev.:	132.6'	MP:	TOC	Depth to GW: 19.31'	Notes:		
		MP Elev.:	132.02'				
Depth Well Log		Recovery	Spli	t Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 3 - - 6 -			Well Constru	ction Details:			-
- 9 - - 12 -			Protective Flue	shmount Roadbox			
- 15 -			0-1'	Concrete Surface Seal			_
- 18 -			1'-18'	Native Material			_
- 21 -			18'-37'	Portland Cement and Bentonite Slurry Grout			
- 24 -			37'-39'	Bentonite Chip Seal			_
-27			39'-46'	#1 Silica Sand Filter Pack			_
_ 30			41'-46'	0.010" Slotted PVC Well Screen			_
33			46'	Bottom of Borehole			_
36			_				_
- 39 -			-				_
- 42			-				_
- 45 -			_				
- 48 -			Bottom of Bor	ing at 46' bos			-
51 -				ing ut 10 055.			_
- 54 -			-				_
5 7 -			-				_
- 60 -			-				_
- 63 -			-				_
66 -			–				-
- 69 -			–				-
- 72 -			 _				_
75							
		Key to Well	Construction				
			Sandpack Bentonite Seal	Well Screen Grout Cement Mative Fill			

DR Projec Client:	t:	NG LO Raytheon-Wa Raytheon	G for W	ell #:	MW-204D Project Number: Logged by:	ERM 143.69 Jessica Eckhardt	ERM 399 Boylst on Street, 6th Floor Boston, MA 021 I6	SITE MA	AP	×Z-
Drillin		Geosearch, In	C		Driller:	Artie Cox				
Date S		20-Jul-02	с.		Date Finished:	20-Jul-02				
Locati		Wayland, MA			Drilling Method:	4.25" ID HSA		MW-204S	MW-204M	
	Diam:	2"		Length:	5'	Slot Size:	0.010"	♥		
	g Diam:	2"		Length:	67'	Туре:	PVC			
	g Depth:	72'		Well Depth:	72'	Boring Di		MW-204D		
	e Elev.:	132.6'		MP:	TOC	Depth to		Notes:		
Surrae	C Elev	152.0		MP Elev.:	132.30'		Gw. <u>18.07</u>	110105.		
				IVII LICV	132.30					
Depth	Well Log		Blowcounts per 6 inches	Recovery	Spli	t Spoon Descriptio	n/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 3 - - 6 - - 9 -					Well Constru					-
- 12 -					0-1'	shmount Roadbox Concrete Surface	Seel			-
— 15 —					1'-18'	Native Material	seal			-
- 18 -					18'-63'		and Bentonite Slurry Gro	nf		_
- 21 -					63'-65'	Bentonite Chip S				-
- 24 -					65'-72'	#1 Silica Sand Fi				-
-27 -					67'-72'	0.010" Slotted P				-
- 30 -					72'	Bottom of Boreh				_
- 33 -					12	Dottom of Doten				-
- 36 -					_					-
- 39 -					_					-
- 42 -					_					-
- 45 -					_					-
- 48 -					-					-
- 51 -					-					-
- 54 -					-					-
- 57 -										-
- 60 -					 					-
- 63 -		2			–					-
- 66 -		-			-					-
- 69 -										-
72		:								
- 75 -					Bottom of Bor	ring at 72' bgs.				_
				Key to Well						
				<u> </u>	Sandpack Bentonite Seal	Well Scree Cement	en 🚧 Grout Mative Fill			

DR	RILL	ING LO)G for V	Vell #	: MW-2	05S ERM 399 Boylston Street, 6th Floor Boston, MA 021 16		SITE MA	AP	↑ N
Projec		aytheon-Waylar			Project Number:	143.69 Boston, MA 02116	-			
Client		aytheon			Logged by:	Mark Ciriello				
		eosearch, Inc.			Driller:	Pat Hines				
	Started:	20-Jul-02			Date Finished:	20-Jul-02				Existing
Locati		Wayland, MA	4		Drilling Method:	4.25" ID HSA		MW-2058	MW 205M	Building
Screer	n Diam:	2"		Length:	10'	Slot Size: 0.010"		1	WI W -2031WI	_
Casing	g Diam:	2"		Length:	12'	Type: PVC		⊕⊕⊕≰∕		
Boring	g Depth:	22'		Well Dep	th: 22'	Boring Diam.: 8"		MW-2	205D	
Surfac	e Elev.:	132.4'		MP:	TOC	Depth to GW: 19.31'		Notes:		
				MP Elev.:	131.98'					
Depth	Well Lo	g Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoo	on Description/Soil Classification		Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1										
2					_					
- 3 -					-					
					Γ					
- 5 -					-					_
- 6 -										
Ŭ										
- 7 -					-					_
- 8 -				-						
_		SAND &	(770	1 51	T 1 / 1 C		1	S-1	0.0	
- 9 -		CDAVEL	6-7-7-8	1.5'	-Light brown line	-med. SAND & GRAVEL, trace Silt	ary.	8'-10'	0.0	
10		GRAVEL		-	<u> </u>			8-10		
_ 11 _		SAND &	7-8-9-9	1.0'	I ight brown fine	-med. SAND & GRAVEL, trace Silt	dry	S-2	0.0	
- 11 -		GRAVEL	7-0-9-9	1.0		-Incu. SAIND & ORAVEL, trace Shi	ury.	10'-12'	0.0	
1 2		GIGTVEE								
- 13 -		SAND	10-10-11-12	1.3'	Light brown well	sorted fine SAND, some Silt; dry.		S-3	0.0	
- ¹³ -		SILIND	10 10 11 12	1.5		solice file Stard, solice She, ary.		12'-14'	0.0	
-14 -										
- 15 -		SAND	12-11-12-11	1.8'	Brown-vellow fir	ne SAND, well sorted, moist.		S-4	0.0	
					<i>j j j j</i>	· · · · · · · · · · · · · · · · · · ·		14'-16'		
- 16 -		1			<u> </u>			S-5		
- 17 -		SAND	10-10-12-11	2'	Brown fine SAN	D, some Silt; wet.			0.0	-
- 18 -								16'-18'		
								S-6		
- 19 -		SAND	10-10-11-12	1.8'	Brown fine SAN	D, some Silt; wet.			0.0	_
20								18'-20'		
Ē		C A D T	11 11 10 10	• •				S-7	0.0	
21		SAND	11-11-13-12	2.0'	Brown fine SAN	D, some Silt; wet.			0.0	_
22	::==:	1			<u> </u>			20'-22'		_
					Bottom of Boring	g at 22' bgs.				
- 23 -										
24 -					 					_
- 25 -					Well Constructio	n Details on Following Page				
- 23				Key to W	ell Construction					
					Sandpack	Well Screen Grout				
				· · · ·	Junupack					

Cement

Bentonite Seal

DF	RILLI	NG L	OG fo	or We	II #: MW-205S ERM ERM 399 Bo ylston Street, 6th Floor Boston, MA 02116	Page	2 of	2
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # Analyses
	n				Well Construction Details:			
	1				_			
	1				Protective Flushmount Roadbox			
	1				0-1' Concrete Surface Seal			
	1				1'-9' Native Material			
_	1				9'-11' Bentonite Chip Seal			
_					11'-22' #1 Silica Sand Filter Pack			
_					12'-22' 0.010" Slotted PVC Well Screen			
_					22' Bottom of Borehole			
_	1				_			
	1				_			
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DRILLI	NG LOG for W	ell #:	MW-205M	erm		lston Street, 6th Floor MA 021 16	SITE MA	AP	↑ N
Project:	Raytheon-Wayland		Project Number: 143.69						
Client:	Raytheon		Logged by:						
Drilling Co:	Geosearch, Inc.		Driller:	Pat Hines					Existing
Date Started:	20-Jul-02		Date Finished:	20-Jul-02					-
Location:	Wayland, MA		Drilling Method:	4.25" ID HSA			MW-205S	MW-205M	Building
Screen Diam:	2"	Length:	5'	Slot Size:		010"			
Casing Diam:	2"	Length:	42'	Type:		VC	€₽₽		
Boring Depth:	47'	Well Depth:		Boring Di			/ MW-2	205D	
Surface Elev.:	132.4'	MP:	TOC	Depth to C	GW: 19	9.45'	Notes:		
		MP Elev.:	132.12'						
Depth Well Log	Blowcounts per 6 Stratigraphy inches	Recovery	Spli	t Spoon Description	n/Soil Cl	assification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
- 3 - - 6 -			Well Constru	ction Details:					
- 12 -				shmount Roadbox					_
- 15 -			0-1'	Concrete Surface	e Seal				_
- 18 -			1'-18'	Native Material					_
- 21 -			18'-38'	Portland Cement	and Ben	tonite Slurry Grout			_
- 24 -			38'-40'	Bentonite Chip S	Seal				_
-27			40'-47'	#1 Silica Sand Fi	ilter Pack				_
30			42'-47'	0.010" Slotted PV	VC Well	Screen			_
33			47'	Bottom of Boreh	ole				
36			_						_
- 39			_						_
42									_
- 45 -			_						_
- 48 -			-						
- 51 -			Bottom of Bor	ing at 47' bgs.					_
- 54 -			 _						_
- 57 -			 -						_
- 60 -			┝						-
- 63 -			┝						-
- 66 -			-						_
- 69 -			-						_
- 72 -			┝						-
75									
•	•	Key to Well	Construction						
			Sandpack Bentonite Seal	Well Scre Cement	een	Grout Mative Fill			

	//	ERM 399 Boylston Street, 6th Floor	SITE MA	AP	
DRILLING LOG for Well		ERM Boston, MA 02116			
Project: Raytheon-Wayland	Project Number:	143.69			
Client: Raytheon	Logged by:	Mark Ciriello			
Drilling Co: Geosearch, Inc.	Driller:	Pat Hines			Existing
Date Started: 20-Jul-02	Date Finished:	20-Jul-02			Building
Location: Wayland, MA Screen Diam: 2" Length	Drilling Method:	4.25" ID HSA	MW-2058	MW-205M	Dunung
		Slot Size: 0.010" Type: PVC	∳ ⊕⊕⊕≜∕		
Casing Diam: 2" Length Boring Depth: 70' Well I		Type: PVC Boring Diam.: 8"	MW-2	205D	
Surface Elev.: 132.4' MP:	TOC	Depth to GW: 18.38'	Notes:	203D	
MP EI		Depuir to G w. 10.50	10005.		
			G 1 //	PID Conc.	
Depth Well Log Stratigraphy Blowcounts per 6 inches Recov	Split Spoo	n Description/Soil Classification	Sample # & Depth	(ppm) spoon/HS	Lab Sample # & Analyses
- 3 -	-				
	Г				_
• 9 •	–				-
-12 -					
	Γ				
- 15 -	-				_
18 -777					_
	Well Construction	on Details:			
21 -	-				
- 24 -					_
	Protective Flushm	nount Roadbox			
27	0-1' Cond	crete Surface Seal			_
- 30 -	0-1° Conc	crete Surface Seal			
	1'-18' Nativ	ve Material			
- 33 -	18'-60' Portl	and Cement and Bentonite Slurry Grout			_
a 36 b	-	-			
- 39	60'-62.5' Bent	onite Chip Seal			_
	62.5'-70' #1 S	ilica Sand Filter Pack			
	-				-
45	65'-70' 0.01	0" Slotted PVC Well Screen			_
	70' Botte	om of Borehole			
					-
51 -	-				-
	Γ				
- 57 -	–				-
60					
- 63 -	-				-
	–				_
- 69 - :: : : : : : : : : : : : : : : : : : 	D offeren (D	at 701 has			
- 72 -	Bottom of Boring	at /0 bgs.			
	L				
F 75 F Key to	Well Construction		1		
	Sandpack	Well Screen Grout			
	Bentonite Seal	Cement Native Fill			