

Well Location Sketch:



Compliance - Engineering - Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

See MW01

## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <b>MW01</b>	Project: <b>88-0003 - 519313"</b>
Date: <b>5/12/20</b>	Project Number: <b>014220009</b>
Logged By: <b>David Stainback, P.G.</b>	Drilled By: <b>Drill Pro</b>
Elevation: <b>N/A</b>	Detector: <b>MinirAE 3000</b>
Drilling Method: <b>Direct Push/Geoprobe</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>Washed silica sand</b>	Seal: <b>Bentonite</b>
Casing Type: <b>PVC</b>	Grout: <b>N/A</b>
Screen Type: <b>PVC</b>	Diameter: <b>1"</b>
Slot: <b>0.01</b>	Length: <b>2'</b>
Diameter: <b>1"</b>	Hole Diameter: <b>2.25"</b>
Length: <b>10'</b>	Depth to Liquid: <b>-</b>
Total Depth: <b>12'</b>	Depth to Water: <b>-</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
					2				0-6' Cleared of utilities, not logged	
					4					
					6					
	N/A	2.8	N/A		8		0%	N/A	6-8', lost recovery, screen soil in shoe	
	wet	1.4	No		10		100%	SC	8-11' clayey fg-mg sands, very saturated, no sand/bdr.	
	less wet	0.5			12			CL	11-12' clay w/ fg sands, less wet, low plasticity, cohesive, no sand/bdr	
					14				TD @ 12', set w/ FM cover	
					16					
					18					

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See mw04

## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **MW02** Project: **38-0000-SL 43-30**  
 Date: **5/2/20** Project Number: **014220009**  
 Logged By: **David Stainback, P.G.** Drilled By: **Drill Pro**

Elevation: **N/A** Detector: **MinirAE 3000** Drilling Method: **Direct Push/Geoprobe/HA** Sampling Method: **Continuous**

Gravel Pack: **Washed silica sand** Seal: **Bentonite** Grout: **N/A**

Casing Type: **PVC** Diameter: **1"** Length: **2'** Hole Diameter: **-** Depth to Liquid: **-**

Screen Type: **PVC** Slot: **0.01** Diameter: **1"** Length: **10'** Total Depth: **-** Depth to Water: **~3.5'**

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0				0-2' Clay w/ Sands	
					2			CL	Fg, grey, Septic odor, no stain/low plasticity, moist	
					4			SC	2-6' Clayey Fg-Mg Sands, moist, wet @ 3.5', no stain/odor, tan/golden in color	
					6					
					8			sil	6-8' Fg-Mg clayey sands, iron mottling, increase in clays w/ depth, moist, no stain/odor	
					10			CLS	9.5-12' Claystone w/ few Fg-Mg Sands, iron mottling, very moist, no stain/odor	
					12				TD @ 12', Set w/ FM GWR	
					14					
					16					
					18					

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Sec MW04



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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <b>MW03</b>	Project: <b>38-2000-SL-143-3"</b>
Date: <b>5/12/20</b>	Project Number: <b>014220009</b>
Logged By: <b>David Stainback, P.G.</b>	Drilled By: <b>Drill Pro</b>
Drilling Method: <b>Direct Push/Geoprobe/HA</b>	Sampling Method: <b>Continuous</b>
Seal: <b>Bentonite</b>	Grout: <b>N/A</b>

Elevation: **N/A** Detector: **MinirAE 3000**

Gravel Pack:  
**Washed silica sand**

Casing Type:

PVC

Diameter:

1"

Length:

2'

Hole Diameter:

Depth to Liquid:

-

Screen Type:

PVC

Slot:

0.01

Diameter:

1"

Length:

10'

Total Depth:

12'

Depth to Water:

~3'

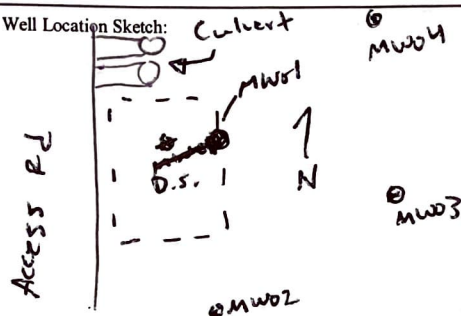
Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	moist	0.0	NO		2			CL	0-1' clay w/ Fg Sands, low plasticity, no stain/odor	
	moist	0.0			4			SC	2-5' Clayey Sands, Fg w/ some My, increasing sands w/ depth, wet @ 3', no stain/odor	
	wet	0.0			6			CL	5-6' clay w/ Fg Sands, wet, low plasticity, grey, no odor	
		0.0			8			CL	6-8' clay w/ Fg Sands, wet, low plasticity, grey @ 7'	
		0.1	grey		10			SC	8-10.5' Fg-My Sands, little Fg Sands, wet, no stain/odor	
		0.0	NO		12			CL	10.5'-12' clay w/ te-little Fg Sands, med plasticity, less wet, no stain/odor, stiff	
	moist	0.0			14				TD @ 12', set w/ FM	
					16					
					18					

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## BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <b>MW04</b>	Project: <b>58-0000-5193-31</b>
Date: <b>5/12/20</b>	Project Number: <b>01422009</b>
Logged By: <b>David Stainback, P.G.</b>	Drilled By: <b>Drill Pro</b>
Drilling Method: <b>Direct Push/Geoprobe/HA</b>	Sampling Method: <b>Continuous</b>
Gravel Pack: <b>Washed silica sand</b>	Seal: <b>Bentonite</b>
Casing Type: <b>PVC</b>	Hole Diameter: <b>2"</b>
Screen Type: <b>PVC</b>	Depth to Liquid: <b>-</b>
Slot: <b>0.01</b>	Depth to Water: <b>23'</b>
Diameter: <b>1"</b>	Total Depth: <b>12'</b>

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	0.0				2			CL	0-1 Clay w/ Fg Sands, moist, low plasticity, no stain/odor	
	0.0				4			CL	1-4' Fg - my clayey sands, moist, no stain/odor, trace cg sands @ 3', wet @ 3'	
	0.0				6			CL	4-5.5' Clay w/ Fg Sands, increasing clay w/ depth, wet, no stain/odor, low plasticity	
	1.0				8			SC	6-7' Same as above, low plasticity, no stain/odor	
	0.2				10			CLS	7-8' Fg my Sands w/ little cg Sands, clayey, wet, no stain/odor	
	0.4				12				8-12' claystone w/ little Fg Sands, very stiff, blocky structure, iron nodules, no stain/odor, moist	
	0.6				14				TD @ 12', set w/ FM cover	
					16					
					18					

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