

☐ ★ft	Project UNC Airpo	ort Road/Chem Site	Well MW-34
₩ LAND SURFACE	Town/City	Chapel Hill	
- 11	County	Orange	State NC
6 inch diameter	Permit No.		
drīlled hole	Land-Surface Elevation	on and Datum:	
		feet	Surveyed
Well casing,			Estimated
2 inch diameter,	Installation Date(s)	7/6/04	ш
Schedule 40 PVC	Drilling Method	air hammer	
Backfill	Diffilling Method	an nammer	
X Grout neat cement	Drilling Contractor	Geologic Explor	ation
	Drilling Fluid	air	
64.00			
64 ft*			
Bentonite slurry	Development Technic	que(s) and Date(s)	
68 ft* X pellets	-	air and disposal	ole bailer
	Fluid Loss During Dril	lling	gallons
ft*	Water Removed Duri	ng Development	gallons
Well Screen.	Static Depth to Wate	<u> </u>	feet below M.P.
2 inch diameter Sch 40 PVC , 10 slot	Pumping Depth to W	/ater	feet below M.P.
3CT 40 FVC , 10 SIOL	Pumping Duration	hours	
	Yield	gpm	Date
□□□			
Gravel Pack	Specific Capacity	gpm/ft	
Sand Pack			
Formation Collaspse	Well Purpose	monitor well	
as the			
85 ft*	Remarks		
<u>85</u> ft*			
Measuring Point is			
Top of Well Casing Unless Otherwise Noted.			
* Depth Below Land Surface			
Depart Delow Land Surface	Prepared by	Jason Namey	





Boring/Wel	lMW	-34		Project/No.	. NC000239.0012 Page 1 of 1
Site Location	UNC Airpo	ort Road/Cl	nem Site		Drilling Drilling Started 7/6/2004 Completed 7/6/2004
Drilling Contractor	Geologic E	xploration			Driller Jason Helper Brady/Brendenn
Drilling Flu	id Used	air			Drilling Method Air Hammer
Length and of Coring D	Diameter Device	NA			Sampling Interval NA feet
Land-Surfa	ce Elev.			feet	Surveyed Estimated Datum
Total Depth	Drilled	85		Feet	Hole Diameter Coring Device 6" hammer bit
Prepared By Jason Namey					Hammer Hammer Weight NA Drop NA ins.
Sampling	Data:				
De	pth	Grab/Co	mposite	Time	Laboratory Analysis
	acterizati				
Sample/Cor (Fee	re Depth et bls)	Core Recovery	OVM Reading	Blow Counts	Sample/Core Description
From	То	(Feet)		per 6 Inches	
0.0	10.0				Orange-brown moist fine sandy CLAY.
10.0	35.0				Light brown moist clayey fine SAND.
35.0	50.0				Fractured Bedrock.
					became saturated at 48 feet bls
50.0	85.0				Bedrock.
					small fracture at 51 feet bls
					small fracture at 58 feet bls
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☐ ★ft	Project UNC Airport	Road/Chem Site	Well MW-35
↓ LAND SURFACE	Town/CityC	hapel Hill	
	CountyC	range	State NC
6 inch diameter	Permit No.		
drilled hole	Land-Surface Elevation	and Datum:	
		feet	Surveyed
Well casing,			Estimated
2 inch diameter,	Installation Date(s)	7/6/04	<u> </u>
Schedule 40 PVC	Drilling Method	air hammer	
Backfill		dii Hallillel	
X Grout neat cement	Drilling Contractor	Geologic Explor	ation
	Drilling Fluid	air	
F4.6*	<u> </u>		
<u>54</u> ft*			
Bentonite slurry	Development Techniqu	ie(s) and Date(s)	
58 ft* X pellets		air and disposab	ole bailer
	-		
	Fluid Loss During Drillin	ng	gallons
60 ft*		'	
60 ft*	Water Removed During	g Development	gallons
60 ft* Well Screen.	Water Removed During	g Development	gallonsfeet below M.P.
Well Screen. 2 inch diameter	Water Removed During	g Development	gallonsfeet below M.P.
Well Screen.	Water Removed During	g Development ter	gallonsfeet below M.P.
Well Screen. 2 inch diameter	Water Removed During Static Depth to Water Pumping Depth to Wa	g Development ter hours	gallonsfeet below M.P.
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield	g Development terhoursgpm	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield	g Development ter hours	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield	g Development terhoursgpm	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity	g Development terhoursgpm	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack X Sand Pack	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack Sand Pack Formation Collaspse	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack X Sand Pack Formation Collaspse	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack Sand Pack Formation Collaspse	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity Well Purpose m	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack Sand Pack Formation Collaspse 75 ft*	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity Well Purpose m	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC, 10 slot Gravel Pack X Sand Pack Formation Collaspse	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity Well Purpose m	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date
Well Screen. 2 inch diameter Sch 40 PVC , 10 slot Gravel Pack Sand Pack Formation Collaspse 75 ft* Measuring Point is Top of Well Casing	Water Removed During Static Depth to Water Pumping Depth to Wa Pumping Duration Yield Specific Capacity Well Purpose m	g Development terhoursgpmgpm/ft	gallons feet below M.P. feet below M.P. Date





Boring/Wel	MW	7-35		Project/No.	NC000239.0012				Page	1 of	1
Site Location	UNC Airpo	ort Road/Ch	nem Site			Drilling Started	7/6/2004	Drilling Completed	7/6/20	004	
Drilling Contractor	Geologic E	xploration				Dri]	ller Jason		Helper]	Brady/Brenc	denn
Drilling Flu	id Used	air				Dril	ling Method	Air Hammer			
Length and of Coring D		NA				Samp	ling Interval	NA	1	feet	
Land-Surfa	ce Elev.			feet	Surveyed	Estimated	Datum				
Total Depth	Drilled	75		Feet	Hole Diameter	Co	oring Device	6" hammer	bit		
Prepared By	Jason Name	ey				Hamr Wei	ner ght <u>NA</u>		Hammer Drop_	NA	_ins.
Sampling											
De	pth	Grab/Co	mposite	Time			Laboratory	Analysis			
	acterizati		LOVIM	Dlam							
	t bls)	Core Recovery				S	ample/Core	Description			
From	То	(Feet)	(ppm)	per 6 Inches	Oranga brausa maist fi	no condu C	1.47/				
0.0	5.0				Orange-brown moist fi		LAY.				
5.0	10.0				Fractured/Weathered B	earock.					
10.0	75.0				Bedrock.						
					small fracture at 13 f						
					small fracture at 28 f						
					small fracture at 37 f						
					small fracture at 46 f						
					small fracture at 68 f	eet bis					
	-										
	-										
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☐ Āft	Project UNC Airpo	rt Road/Chem Site	Well MW-36
₩ LAND SURFACE	Town/City	Chapel Hill	
- 11	County	Orange	State NC
6 inch diameter	Permit No.		
drīlled hole	Land-Surface Elevation	on and Datum:	
		feet	Surveyed
Well casing,			Estimated
2 inch diameter,	Installation Date(s)	7/7/04	Estimated
Schedule 40 PVC			
Backfill	Drilling Method	air hammer	
X Grout neat cement	Drilling Contractor	Geologic Explor	ation
	Drilling Fluid	air	
62.64	Drining Haid	un .	
63 ft*			
Bentonite slurry	Development Technic	que(s) and Date(s)	
67 ft* X pellets		air and disposal	ole bailer
	Fluid Loss During Dril	ling	gallons
69 ft*	Water Removed Duri	na Development	gallons
	Static Depth to Wate		
Well Screen.	•		
2 inch diameter Sch 40 PVC , 10 slot	Pumping Depth to W	ater	feet below M.P.
	Pumping Duration	hours	
	Yield	gpm	Date
Gravel Pack	Specific Capacity	gpm/ft	
	specific cupacity	gpii#it	
▼ X Sand Pack			
Formation Collaspse	Well Purpose	monitor well	
94 ##			
84 ft* 85 ft*	Remarks		
Measuring Point is			
Top of Well Casing Unless Otherwise Noted.			
* Depth Below Land Surface			
Sepa. Selow Land Sarrace	Prepared by	Jason Namey	





Boring/Wel	MW	7-36		Project/No.	NC000239.0012 Page <u>1</u> of <u>1</u>
Site Location	UNC Airpo	ort Road/Cl	nem Site		Drilling Drilling Started 7/6/2004 Completed 7/6/2004
Drilling Contractor	Geologic E	xploration			Driller Jason Helper Brady/Brendenn
Drilling Flu	id Used	air			Drilling Method Air Hammer
Length and of Coring D	Diameter evice	NA			Sampling Interval NA feet
Land-Surfa	ce Elev.			feet	Surveyed Estimated Datum
Total Depth Drilled 85				Feet	Hole Diameter Coring Device 6" hammer bit
Prepared By	Jason Name	ey			Hammer Hammer Weight NA Drop NA ins.
Sampling	Data:				
De	pth	Grab/Co	mposite	Time	Laboratory Analysis
Soil Char	acterizatio	on:			
Sample/Cor (Fee From	re Depth t bls) To	Core Recovery (Feet)		Blow Counts per 6 Inches	Sample/Core Description
0.0	5.0	(1 cct)	(ррш)	per o menes	Orange-brown moist CLAY.
5.0	20.0				Orange-brown moist fine and coarse sandy CLAY.
20.0	23.0				Brown moist slighlty clayey fine to coarser SAND.
23.0	30.0				Fractured/weathered bedrock.
30.0	85.0				Bedrock.
					small fracture at 32 feet bls
					became saturated at 33 feet bls
					small fracture at 80 feet bls
		-			
		-			



		↑ ft	Project UNC Airp	ort Road/Chem Site	Well MW-37
	ш	V LAND SURFACE	Town/City	Chapel Hill	
	ш	10 inch diameter	County	Orange	State NC
	ш	drilled hole	Permit No.		
	П	Outer well casing,	Land-Surface Elevation	and Datum:	
	ш	6 inch diameter,		feet	Surveyed
	ш	galvanized steel			Estimated
	ш	Backfill	Installation Date(s)	7/1/2004 - 7/6/	2004
	ш	X Grout neat cement	Drilling Method	air hammer	
	Ш	100ft*			
		Inner Well casing	Drilling Contractor	Geologic Explo	ration
	Ш	_	Drilling Fluid	air	
	ш	2 inch diameter, Schedule 40 PVC			
		99 ft*	Development Techniqu	ue(s) and Date(s)	
		slurry Bentonite		air and disposa	ble bailer
		113 ft* X pellets			
			Fluid Loss During Drillin	ng	gallons
		115_ft*	Water Removed During	g Development	gallons
		Well Screen.	Static Depth to Water		feet below M.P.
		inch diameter	Pumping Depth to Wa	ter	feet below M.P.
		Sch 40 PVC_,10_slot	Pumping Duration	hours	
	=		Yield	gpm	Date
		Gravel Pack	Specific Capacity	gpm/f	t
	=	X Sand Pack			
		Formation Collaspse	Well Purpose	monitor well	
		Tornation Collaspse	wen ruipose	monitor wen	
		175 6.4			
	=	125_ft* 125_ft*	Remarks		
l	possidititi	<u></u>			
		Measuring Point is			
		Top of Well Casing Unless Otherwise Noted.			
		* Depth Below Land Surface			
			Prepared by	Jason Namey	





Boring/Wel	MW	7-37		Project/No.	NC000239.0012			Page	1	of	1
Site Location UNC Airport Road/Chem Site		Drilling Drilling Started 7/1/2004 Completed				7/6/2004					
Drilling Contractor	Geologic E	xploration				Driller Jason		Helper I	Brady/B	renden	ın
Drilling Flu	id Used	air				Drilling Meth	od Air Hamme	r			
Length and of Coring D		NA				Sampling Interv			eet		
Land-Surfac	ce Elev.			feet	Surveyed	stimated Datu	m				
Total Depth	Drilled	125		Feet	Hole Diameter	Coring Devi	ce <u>6" and 10"</u>		t		
Prepared By	Jason Name	ey				Hammer Weight <u>NA</u>		Hammer Drop	NA	::	ins.
Sampling	Data:										
De	pth	Grab/Co	mposite	Time		Laborator	ry Analysis				
	acterizati										
Sample/Cor (Fee From	re Depth t bls) To	Core Recovery (Feet)	OVM Reading (ppm)	Blow Counts per 6 Inches		Sample/Cor	e Description				
0.0	3.0	(111)	41 /	<u>r</u>	Light brown dry to mois	t fine to medium S	AND.				
3.0	10.0				Orange-brown moist fin	ne sandy CLAY.					
10.0	15.0				Light orange-brown mo	ist slightly clay fine	SAND.				
15.0	20.0				Light orange-brown dry	to moist fine sandy	CLAY.				
20.0	30.0				Fractured rock.						
30.0	125.0				Bedrock.						
					small fracture at 32 fe	eet bls					
				small fracture at 51 feet bls							
					small fracture at 63 fe	eet bls					
					small fracture at 118	feet bls					