

MW-40B

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**MWH****Drilling Log**

Monitoring Well

MW-40B

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Project Chemical Commodities, Inc. SiteOwner The Boeing CompanyLocation Olathe, KSProject Number 1007630.0201Surface Elev. NANorth NAEast NATop of Casing NAWater Level Initial NAStatic 6.01Hole Depth 16.0 ftScreen: Diameter 4 inLength 5.0 ftType/Size Sch. 40 PVC 0.010 slotHole Diameter 8.0 inCasing: Diameter 4 inLength 10.0 ftType Sch. 40 PVCDrill Co. WDC Exploration and WellsDrilling Method RotasonicSand Pack 12/20 Silica SandDriller Ross KightDriller Reg. # KS License 811Log By Tim WinelandStart Date 10/6/2009Completion Date 10/6/2009Checked By Kevin Armstrong

Bentonite Grout



Bentonite Granules



Grout



Portland Cement



Sand Pack



Sand Pack

COMMENTS

5-7/8" sonic boring with 8" overshot casing

Depth (ft)	PID (ppm)	% Recovery	Blow Count Recovery	Graphic Log	USCS	Description (Color, Moisture, Texture, Structure, Odor) Geologic Descriptions are Based on the USCS.	Well Completion
0	0.0	100%			CH	TOPSOIL, black loam, moist, vegetation present, low/medium plasticity, blocky structure. Silty CLAY, dark grayish brown (10YR4/2), moist, stiff, high plasticity, some 10YR5/6 mottling, no odor/no visual impact.	
5	0.0	100%			CH	Silty CLAY, yellowish brown (10YR5/4), moist, stiff, high plasticity, some 10YR5/6 mottling, no odor/no visual impact.	
10	0.5	100%			CL	Silty CLAY w/gravel, mix of 10YR hues (4/3 through 6/6) mottled, gravels are rounded to angular oxidized fragments (possibly concretions of manganese/iron oxides), moist, stiff, low plasticity, no odor/no visual impact.	
	2.1	100%			CL	LIMESTONE, carbonate bedrock, strong HCl reaction, grayish brown (10YR5/2), hard, medium crystal structure with fossils. South Bend Limestone.	
15	5.7	100%			CL	CLAY w/trace silt and sand, very dark grayish brown (10YR3/2), moist, medium stiff, high plasticity, no odor/no visual impact.	
		100%				LIMESTONE, thinly bedded carbonate bedrock, strong HCl reaction, variable weathering from 10YR4/1 (competent) to 10YR6/3 (weathered). Interbedded silty clays, moist, medium stiff, moderate plasticity, no odor/no visual impact. South Bend Limestone.	
						Silty CLAY, yellowish brown (10YR5/4) (weak HCl reaction), moist, stiff, low plasticity, no odor/no visual impact.	
20						LIMESTONE, thinly bedded carbonate bedrock, strong HCl reaction, variable weathering from 10YR4/1 (competent) to 10YR6/3 (weathered). Interbedded silty clays, moist, medium stiff, moderate plasticity, no odor/no visual impact. South Bend Limestone.	
						LIMESTONE, thinly bedded carbonate bedrock, strong HCl reaction, variable weathering from 10YR4/1 (competent) to 10YR6/3 (weathered). Interbedded silty clays, moist, medium stiff, low plasticity, trace odor/no visual impact. South Bend Limestone.	
25						End of boring = 16'.	

