

MW-37B

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MWH

Drilling Log

Monitoring Well MW-37B

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Project Chemical Commodities, Inc. SiteOwner The Boeing CompanyLocation Olathe, KSProject Number 1007630.0201Surface Elev. NA North NAEast NATop of Casing NA Water Level Initial NAStatic 9.89Hole Depth 25.5 ft Screen: Diameter 4 in Length 10.0 ft Type/Size Sch. 40 PVC/0.010 slotHole Diameter 8.0 in Casing: Diameter 4 in Length 15.0 ft Type Sch. 40 PVCDrill Co. WDC Exploration and Wells Drilling Method Rotasonic Sand Pack 12/20 Silica SandDriller Ross Kight Driller Reg. # KS License 811 Log By Tim WinelandStart Date 10/7/2009Completion Date 10/9/2009Checked By Kevin Armstrong

Bentonite Grout
 Bentonite Granules
 Grout
 Portland Cement
 Sand Pack
 Sand Pack

COMMENTS

5-7/8" sonic boring with 8"
 overshot casing.
 MW037B_SSWCOSTR_1501
 Composite sample collected over
 length of overburden (0-14.5'
 bgs).

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%				Asphalt.	
					CH	FILL, carbonate gravel.	
	0.0	100%			CH	Silty CLAY, black (10YR2/1), stiff, moist, high plasticity, no odor/no visual impacts.	
						Silty CLAY, dark yellowish brown (10YR4/4), stiff, moist, high plasticity, no odor/no visual impacts.	
5	0.5	100%					
	0.8	100%					
10	5.3	100%			CH	Silty CLAY, yellowish brown (10YR5/4), stiff, moist, high plasticity, black concretions of iron/manganese, no odor/no visual impacts.	
	6.5	100%					
15	15.7	100%			CH	Silty CLAY, yellowish brown (10YR5/4) with ~30% carbonate gravels (LS-10YR6/4), stiff, moist, high plasticity, black concretions of iron/manganese, no odor/no visual impacts.	
	178	100%				LIMESTONE, carbonate bedrock (LS) (strong HCl reaction), grayish brown (10YR5/2), fossiliferous, thinly bedded, hard, slight odor, no visual impacts. South Bend Limestone.	
20	41.9	100%				LIMESTONE, carbonate bedrock (LS) (strong HCl reaction), grayish brown (10YR5/2), fossiliferous, thinly bedded with interbedded clays - light yellowish brown (10YR6/4) silty clay, low plasticity, nearly dry (possibly desiccated during drilling), very slight odor, no visual impacts. South Bend Limestone.	
	2.1	100%				LIMESTONE, mechanically fractured carbonate bedrock (LS) (mild HCl reaction), light yellowish brown (10YR6/4), with interbedded clays, mild odor/no visual impacts. South Bend Limestone.	
25					CH	SHALE, low grade (mild HCl reaction) grading from 10YR6/4 at 23' to 10YR5/2 at 24' to 10YR5/1 at 24.5'. No odor/no visual impacts. Rock Lake Shale.	
						Silty CLAY, gray (10YR5/1), high plasticity, very stiff, moist/dry, no odor/no visual impacts.	
						LIMESTONE, carbonate bedrock (strong HCl reaction), gray (10YR5/1),	

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Drilling Log CCH-LOGS.GPJ MWH IA.GDT 10/30/09



MWH

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Monitoring Well

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Project Chemical Commodities, Inc. Site

Owner The Boeing Company

Location Olathe, KS

Project Number 1007630.0201

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
						<i>Continued</i>	
30						fossiliferous, coarsely crystalline, no odor/no visual impacts. End of boring = 25.5'	
35							
40							
45							
50							
55							
60							
65							

