

Client: Westinghouse Electric Company
 Location: Hematite, MO
 Project: Hematite Remedial Investigation
 Date Started: 07/19/04
 Date Finished: 07/28/04
 Geologist: T. Calhoun
 Drilling Contractor: Geotechnology

Boring: BR-9-JC

Drilling Method: Rotary
 Surf. Elev.: 420.39
 Northing: 865335.21
 Easting: 828731.74
 Total Depth of Boring: 88.1 feet
 Top of Casing: 423.02
 Total Depth of Well: 89.2 feet

Elevation (ft)	Depth (ft)	Core Recovery (Pen/Rec)	RQD	Fracture Frequency	Lithology	Lithology Description	Well Construction	Well Construction Desc.
370	50	5.1/5.1	78	1				
	55	4.9/4.9	60	0				High Solids Bentonite Grout (Tremied)
365	60	5.0/5.0	98	0				
360	65	5.1/5.1	90	0		SANDSTONE: gray, med. grained, crystalline, calcareous DOLOMITE: gray, very hard, micritic, w/gray shale stringers shaley 73.6-74.2'		
355	70	5.0/5.0	100	0				0.25" Bentonite Pellets
350	75	4.9/4.9	96	0		DOLOMITE: gray, hard, sandy, turbid		Secondary Filter Pack (100 Mesh)
345	80	5.0/5.0	74	1				Primary Filter Pack (10/20 Mesh)
340	85	5.0/5.0	72	0		DOLOMITE: gray, very hard, micritic, w/gray shale stringers shaley 77.8-78.2' vertical fractures 82.6-82.9' chert band 85.0-86.0, '86.4-86.5' slightly weathered 86.5-87.3'		2" Sch. 80 PVC Screen, 0.010" Slot
335	90					NO SAMPLE: 6" air rotary		
330	90					Bottom of Hole 89.2'		Bottom of Well 89.2'
325	95							
100								



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 Hematite Facility
 3300 State Road P
 Festus, MO 63028



SAIC
 8421 St. John Industrial Drive
 St. Louis, Missouri

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 Location: Hematite, MO
 Borehole: BR-9-JC
 Sheet: 2 of 2

Client: Westinghouse Electric Company
 Location: Hematite, MO
 Project: Hematite Remedial Investigation
 Date Started: 07/21/04
 Date Finished: 08/03/04
 Geologist: J. Upcraft
 Drilling Contractor: Geotechnology

Boring: BR-10-JC

Drilling Method: Rotary
 Surf. Elev.: 418.80
 Northing: 864348.15
 Easting: 828685.52
 Total Depth of Boring: 60.0 feet
 Top of Casing: 421.75
 Total Depth of Well: 50.0 feet

Elevation (ft)	Depth (ft)	Core Recovery (Pen/Rec)	RQD	Fracture Frequency	Lithology	Lithology Description	Well Construction	Well Construction Desc.
420	0				DGA			Protective Casing (4") 2.0' x 2.0' x 0.5' Concrete Pad 2" Sch 80 PVC Riser
415	5	4.0/3.1			SILTY CLAY: brown, damp, w/slight limonite mottling			6" Steel Isolation Casing
410	10	4.0/3.3			SANDY CLAY: brown, damp to moist, sand w/ fine grained sand			Portland Cement
405	15	2.0/1.7			SANDY CLAY: brown, moist to wet, w/small gravels			
400	20	6.0/4.0			SANDY GRAVEL: brown, wet, 1/4" to 1.0" in diameter			High Solids Bentonite Grout (Tremied)
395	25	2.0/1.7			CLAY: gray, plastic, wet			
390	30	2.0/1.6			SILTY SAND: gray, wet w/gravel			0.25" Bentonite Pellets
385	35	2.0/1.8			SANDY GRAVEL: gray, wet			Secondary Filter Pack (100 Mesh)
380	40	1.5/1.5			SANDY GRAVEL: brown, wet			Primary Filter Pack (10/20 Mesh)
375	45	3.3/2.8	20	1	DOLOMITE: gray/brown, hard, sandy, weathered	Top of Bedrock 24.5'		2" Sch. 80 PVC Screen, 0.010" Slot
370	50	5.0/4.8	53	0	SANDSTONE: brown, hard, medium grained, weathered, friable			
		6.2/6.1	66	1	DOLOMITE: brown/gray, hard, fine grained, w/wavy black shale laminae, weathered along bedding planes to 33.6'			
		9.0/7.7	58	2	DOLOMITE: brown, hard, micritic, weathered styolitic 37.7-38.3'			
		1.5/1.5		1	DOLOMITE: gray, very hard, silty, w/wavy black shale laminae and lenses, weathered (water stained) 42.5-44.5' sandy 44.6-45.1'			
					DOLOMITE: gray, very hard, micritic, w/wavy green shale laminae			Bottom of Well 50.0'



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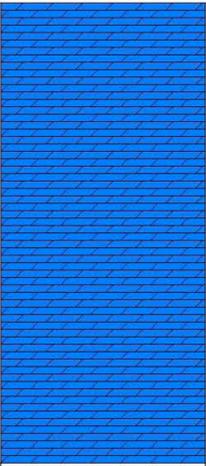
SAIC
 8421 St. John Industrial Drive
 St. Louis, Missouri

Client: Westinghouse Electric Company
 Project: Hematite Remedial Investigation
 Location: Hematite, MO
 Borehole: BR-10-JC
 Sheet: 1 of 2

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Elevation (ft)	Depth (ft)	Core Recovery (Pen/Rec)	RQD	Fracture Frequency	Lithology	Lithology Description	Well Construction	Well Construction Desc.
50						DOLOMITE: gray, very hard, sandy, pitted/vuggy		
	3.0/2.8	81	1					
365								
	55							
	4.0/4.0	94	1					
360								
	60							
	3.0/2.8	89	1					
60								
						Bottom of Hole 60.0'		
355								
	65							
350								
	70							
345								
	75							
340								
	80							
335								
	85							
330								
	90							
325								
	95							
320								
	100							



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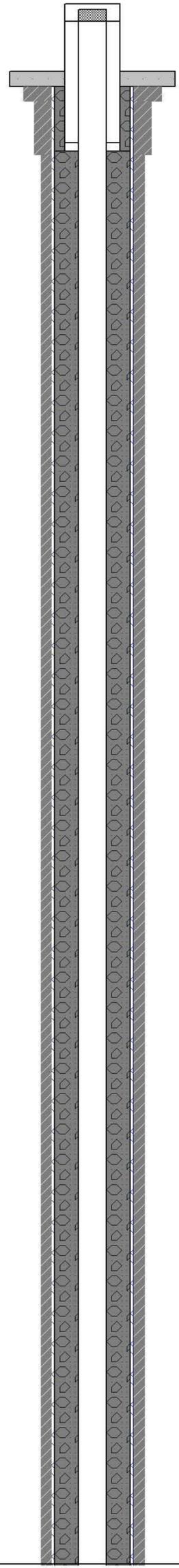
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Client: Westinghouse Electric Company
 Location: Hematite, MO
 Project: Hematite Remedial Investigation
 Date Started: 08/03/04
 Date Finished: 08/09/04
 Geologist: J. Upcraft
 Drilling Contractor: Geotechnology

Boring: BR-11-JC

Drilling Method: Rotary
 Surf. Elev.: 430.59
 Northing: 865466.99
 Easting: 829711.69
 Total Depth of Boring: 189.2 feet
 Top of Casing: 433.23
 Total Depth of Well: 151.4 feet

Elevation (ft)	Depth (ft)	Core Recovery (Pen/Rec)	RQD	Fracture Frequency	Lithology	Lithology Description	Well Construction	Well Construction Desc.
430	0					OVERBURDEN: Drilled without sampling		Protective Casing (4") 2.0' x 2.0' x 0.5' Concrete Pad 2" Sch 80 PVC Riser 6" Steel Isolation Casing Portland Cement High Solids Bentonite Grout (Tremied)
425	5							
420	10							
415	15							
410	20							
405	25							
400	30							
395	35							
390	40	4.1/4.1	70	0		Top of Bedrock 39.1' DOLOMITE: gray, hard to very hard, micritic wavy gray shale laminae 41.4-41.8' slightly weathered to weathered 47.6-49.7' vertical fracture 49.1-49.7'		
385	45	5.0/5.0	46	0				
50	50							



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 Sheet: 1 of 4

Client: Westinghouse Electric Company
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 Date Started: 08/03/04
 Date Finished: 08/09/04
 Geologist: J. Upcraft
 Drilling Contractor: Geotechnology

Boring: BR-11-JC

Drilling Method: Rotary
 Surf. Elev.: 430.59
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Elevation (ft)	Depth (ft)	Core Recovery (Pen/Rec)	RQD	Fracture Frequency	Lithology	Lithology Description	Well Construction	Well Construction Desc.
380	50	5.0/4.6	6	2	SANDSTONE	SANDSTONE: light brown, moderately hard, slightly friable, weathered		6" Steel Isolation Casing
375	55	5.0/0.4	68	3	DOLOMITE	DOLOMITE: brown/gray, hard, micritic, slightly weathered		
370	60	7.8/7.8	94	1	DOLOMITE	DOLOMITE: brown/gray, hard, w/wavy green/gray shale laminae, sandy pitted 66.4-67.4'		
365	65	3.0/3.0	83	1	DOLOMITE	DOLOMITE: gray, very hard, sandy, pitted, crystalline		
360	70	10.0/10.0	93	0	DOLOMITE	DOLOMITE: gray, very hard, micritic, w/wavy green shale laminae		
355	75	10.0/10.0	73	1	DOLOMITE	DOLOMITE: gray, very hard, sandy, pitted, crystalline cherty 94.2-95.3'		
350	80	10.0/10.0	81	1	SANDSTONE	SANDSTONE: buff, very hard, fine-grained, crystalline		
345	85	10.0/10.0	81	1	DOLOMITE	DOLOMITE: gray, very hard, silty to sandy green shale laminae 96.3-97.5'		
340	90							
335	95							
330	100							



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