

## Appendix 2.5DD Boring Logs, Monitoring Well Logs, Piezometer Logs, and Test Pit Logs

This appendix contains geotechnical boring logs that are the basis for discussion in [Section 2.5](#). The logs are of soil and rock borings and represent a record of subsurface conditions at the Fermi 3 site.

### Log Terminology and Symbols

See ASTM D2487 & D2488 for details on standard practice for description and identification of soils.

#### General

Date Started	- Date boring was started
Date Finished	- Date boring was completed to depth
SPT	- Split Spoon Sample / Standard Penetration Test
TW	- Thin Wall Sample
CA	- California Sample
S	- Sonic Sample
GP	- Geoprobe Sample
NSF	- National Sanitation Foundation
PP	- Pocket Penetrometer Readings
TV	- Torvane Readings
NQ	- Wireline Diamond Core Drill Bit Size
HQ	- Wireline Diamond Core Drill Bit Size
PQ	- Wireline Diamond Core Drill Bit Size
N Value	- Number of blows to drive a standard split spoon sampler 12 inches with a 140-pound weight falling 30 inches
RQD Recovery	- A modified core run recovery in which all pieces of sound core over 4 inches in length are summed
RQD	- The RQD Recovery expressed as a percentage of the total length of the core run
-----	- Approximate or gradational material change in classification column
@	- At
w/	- With
&	- And
WOR	- Weight of rods

WOH	- Weight of hammer
ID	- Inside diameter
OD	- Outside diameter
NR	- Not Recorded
Indurated	- Rock hardened by heat, pressure, or cementation
Healed	- Rock cemented by mineral precipitation, can be either induration or filling of fractures
Poorly Indurated	- Rock that is not hardened into solid rock
Broken	- Rock that is fractured and not recemented, sandy/gravelly in recovered core

#### Weathering

Fresh	- Rock shows no dissolution, loss of strength, or other effects due to weathering (unweathered rock).
Slightly Weathered	- Rock is slightly discolored with a slightly lower strength than unweathered rock.
Moderately Weathered	- Rock is considerably discolored with a slightly lower strength than unweathered rock.
Highly Weathered	- Rock is discolored and weakened so intensely that 2-inch diameter rock cores can be broken readily by hand. Wet strength is usually much lower than dry strength.








#### Bedding

Laminated	- Less than 0.02 feet (0.25 inch)
Thin Bedded	- 0.21 to 0.5 feet (2.5 to 6 inches) in rock
Medium Bedded	- 0.5 to 1.0 foot (6 to 12 inches) in rock
Thick Bedded	- 1.0 to 2.0 feet (12 to 24 inches) in rock
Massive	- Greater than 2.0 feet (24 inches) in rock
Parting	- Less than 0.021 feet (less than 0.25 inch) in rock
Band(ed)	- 0.021 to 0.21 feet (0.25 to 2.5 inches) in rock
Intermingled	- Two lithologies or material types that are mixed in a non-layered manner
Convolute	- Bedding that is wavy
Contorted	- Bedding that is wavy and/or twisted
Nodule	- Small rounded mass or lump of a mineral within a sedimentary sequence

Discontinuity

Angle in degrees	- Represents the angle in degrees measured from a plane perpendicular to the longitudinal axis of the sample
J, V, B	- Represents the type of the discontinuity [J = Joint, V = Vein, B = Bedding]
W, MW, N, VN, T	- Represents the aperture of the discontinuity [W = Wide (0.5 to 2.0 inches), MW = Moderately Wide (0.1 to 0.5 inches), N = Narrow (0.05 to 0.1 inches), VN = Very Narrow (<0.05 inches), T = Tight (0 inches)]
Cl, Ca, Ch, Fe, Gy, H, No, Qz, Sd, UK	- Represents the type of infilling in the discontinuity [Cl = Clay, Ca = Calcite, Ch = Chlorite, Fe = Iron Oxide, Gy = Gypsum/Talc, H = Healed, No = None, Qz = Quartz, Sd = Sand, UK = Unknown]
Su, Sp, Pa, Fi, No	- Represents the amount of infilling in the discontinuity [Su = Surface Stain, Sp = Spotty, Pa = Partially Filled, Fi = Filled, No = None]
WA, PI, St, Ir	- Represents the planarity of the discontinuity [WA = Wavy, PI = Planar, St = Stepped, Ir = Irregular]
Slk, S, SR, R, VR	- Represents the roughness of the surface of the discontinuity [Slk = Slickensided (surface has smooth, glassy finish with visual evidence of striations), S = Smooth (surface appears and feels smooth to the touch), SR = Slightly Rough (asperities on the discontinuity surfaces are distinguishable and can be felt), R = Rough (some ridges and side-angle steps are evident; asperities are clearly visible, and discontinuity surface feels very abrasive), VR = Very Rough (near-vertical steps and ridges occur on the discontinuity surface)]
Solutioned	- A chemical weathering process in which soluble minerals have been dissolved along a discontinuity. The fracture surface has rounded mineral particles and can be pitted. The rock surface may have a porous appearance. The walls of the fracture no longer match. The surface is discolored and may have evidence of water movement such as small rounded channels and grooves. The fracture surface and the rock mass are discolored and the degree of discoloration decreases away from the fracture. The discolored rock mass is softer than the fresh rock mass. The fracture opening may have clay infilling.

Symbols Legend

	Sonic Sampler
	Bulk/Discrete sample
	Standard penetration test
	Undisturbed thin walled tube
	Rock core
	Geoprobe
	California sampler

The appendix contains the following logs:

Boring Logs

MW-381D  
MW-381S  
MW-383D  
MW-383S  
MW-384D  
MW-384S  
MW-386D  
MW-386S  
MW-387D  
MW-387S  
MW-388S  
MW-390S  
MW-391D  
MW-391S  
MW-391Sa  
MW-393D  
MW-393S  
MW-395D  
MW-395S  
P-382S  
P-385D  
P-385S  
P-389S  
P-392S  
P-396S  
P-397S  
P-398D  
P-398S  
P-399D  
P-399P  
CB-C1  
CB-C2  
CB-C3  
CB-C4  
CB-C5  
CST-AB1  
CT-E1  
EB/TSC-C2  
EB/TSC-E3  
FO-E1  
FWS/ACB-C1  
FWS/ACB-C1a  
HM-E1  
PS-E1

RB-C1  
RB-C2  
RB-C3  
RB-C4  
RB-C4a  
RB-C5  
RB-C6  
RB-C7  
RB-C8  
RB-C9  
RB-C10  
RB-C11  
RB-C12  
RW-C1  
RW-C2  
RW-C3  
RW-C4  
TB-C1  
TB-C2  
TB-C3  
TB-C4  
TB-C5  
TB-C6  
WT-E1

Monitoring Wells Logs

MW-381D  
MW-381S  
MW-383D  
MW-383S  
MW-384D  
MW-384S  
MW-386D  
MW-386S  
MW-387D  
MW-387S  
MW-388S  
MW-390S  
MW-391D  
MW-391S  
MW-393D  
MW-393S  
MW-395D  
MW-395S

Piezometers Logs

P-382S  
P-385D  
P-385S  
P-389S  
P-392S  
P-396S  
P-397S  
P-398D  
P-398S  
P-399D  
CB-C5  
EB/TSC-C2

Test Pit Logs

TP-1



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# BORING LOG

BORING NO. MW-381D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>Granger/Deekery</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0					TOPSOIL	Boring advanced w/vacuum excavation.
							1					Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subangular to rounded, hard sand; yellowish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
							2						
							3						
							4						
							5						Water encountered @ 5.5'
							6						Below 6.0' continued w/4 1/4" ID, 8" OD hollow stem auger. SPT performed w/D-50 automatic hammer.
SPT	1	3	9	15	24	1.3	7						
							8						
TW	2					0.3	9					grades w/some gravel, maximum size 2" @ 8.5'	
							10					grades very hard, high toughness @ 9.5'	
SPT	3	10	22	22	44	1.4	10						
							11						
SPT	4	16	17	10/0	27	0.5	11						
							12						Auger refusal @ 11.5'. Core box #1 starts @ 12.0' Below 12' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.
			12				12						
PQ	1	2.0	2.0	1.2	100	60	13					90°, J, N, Cl, Pa, Ir @ 12.0-12.8', 13.4-13.6'	
							14					2" clay band @ 13.4' joints healed from 12.6-13.6'	
			14.0				14					0°, B, N, Cl, Pa, Pl, SR @ 12.5', 13.4', 13.5', 13.6', 14.3'	
							15					argillaceous @ 14.5-15.5'	

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# BORING LOG

BORING NO. MW-381D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>Geo for Grainger/Deeken JD</i>		CHECKED BY <i>Em for Dogbey/Meyer Em</i>	APPROVED BY <i>Em Meyer Em</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	2	5.0	5.0	3.4	100	68	15		564		90°, J, VN, No, PI, R @ 15.4-16.0'		
							16		563		fractured @ 16.8-17.3'		
							17		562		0°, B, N, CI, Pa, PI, SR @ 15.9', 16.8', 17.3', 17.6'	No drill water return @ 17.8'	
							18		561		90°, J, VN, No, PI, R @ 18.4-19.6'		
			19.0				19		560		0°, B, N, CI, Pa, PI, SR @ 19.4', 19.9'		
PQ	3	5.0	5.0	2.3	100	46	20		559		90°, J, VN, No, PI, R @ 20.2-21.2'		
							21		558		0°, B, N, CI, Pa, PI, SR @ 20.6', 20.8', 21.0'		
							22		557		80°, J, N, CI, Pa, PI, SR @ 21.3'		
							23		556		0°, B, N, CI, Pa, PI, SR @ 21.7'	Core box #2 starts @ 21.7'	
							24		555		0°, B, N, CI, Pa, PI, SR @ 23.5'		
			24.0				25		554		0°, B, N, CI, Pa, PI, SR @ 24.0'		
							26		553		30°, J, N, CI, Pa, PI, SR @ 24.8', 25.2', 25.8'		
PQ	4	5.0	5.0	2.1	100	42	27		552		DOLOMITE; argillaceous; very fine grained; moderately weathered; strong; moderately hard; thin bedded; (Bass Islands Group). highly fractured @ 25.8-26.4'		
							28		551		30°, J, N, CI, Pa, PI, SR @ 26.4', 27.0', 27.5'		
							29		550		0°, B, N, CI, Pa, PI, SR @ 28.2'		
			29.0				30				vugs to 3/4" @ 29.5'		
											30°, J, N, CI, Pa, PI, SR @ 30.0'		

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# BORING LOG

BORING NO. MW-381D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

SAMPLING		LOGGED BY <i>Granger/Deeker</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	5	5.0	5.0	3.3	100	66	30				0°, J, N, Cl, Pa, Pl, SR @ 30.0' 30°, J, N, Cl, Pa, Pl, SR @ 30.7'	Core box #3 starts @ 30.0'	
							31				0°, J, N, Cl, Pa, Pl, SR @ 31.2' 30°, J, N, Cl, Pa, Pl, SR @ 31.4' 0°, J, N, Cl, Pa, Pl, SR @ 31.6' 30°, J, N, Cl, Pa, Pl, SR @ 31.9'		
							32				DOLOMITE; brecciated; gray/brown; very fine grained; moderately weathered; strong; hard; vugs to 1/2"; weak reaction w/HCl; (Bass Islands Group). 1/4" thick black shale band @ 32.0'		
							33						
							34				0°, J, N, Cl, Pa, Pl, SR @ 33.5' 30°, J, N, Cl, Pa, Pl, SR @ 33.7'		
PQ	6	5.0	5.0	2.9	100	58	34.0				DOLOMITE; light gray; very fine grained; moderately weathered; strong; hard; (Bass Islands Group). 90°, J, N, Cl, Sp, R @ 34.8-35.5'		
							35						
							36				30°, J, N, Cl, Pa, SR @ 35.5'		
							37				0°, B, N, Cl, Pa, SR @ 36.8'		
							38				90°, J, N, Cl, Sp, R @ 37.6-38.2' 30°, J, N, Cl, Pa, SR @ 38.1'		
							39				0°, B, N, Cl, Pa, SR @ 38.8' 30°, J, N, Cl, Pa, SR @ 39.0'	Core box #4 starts @ 39.0'	
							40				argillaceous @ 39.5' 0°, B, N, Cl, Pa, SR @ 39.8'		
PQ	7	5.0	5.0	3.5	100	70	39.0				2" thick black shale band @ 41.0' 0°, B, N, Cl, Pa, SR @ 41.1' 30°, J, N, Cl, Pa, SR @ 41.2'		
							41						
							42				DOLOMITE; oolitic; brown; fine grained; slightly weathered; strong; hard; (Bass Islands Group). 90°, J, N, Cl, Pa, Pl, SR @ 41.2-43.1'		
							43						
							44				90°, J, N, Cl, Pa, Pl, SR @ 43.8-44.1'		
							44.0						
							45				DOLOMITE; argillaceous; light gray; highly		

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# BORING LOG

BORING NO. MW-381D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>Geo. Deeken</i> Grainger/Deeken		CHECKED BY <i>Em Meyer</i> Dogbey/Meyer	APPROVED BY <i>Em Meyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	8	5.0	5.0	2.6	100	52	45				weathered; moderately strong; moderately hard; (Bass Islands Group). 0°,J,N,Ci,Pa,PI @ 44.9'		
							46				2" black shale band @ 45.1' 0°,J,N,Ci,Pa,PI @ 45.5', 45.6', 45.7', 46.1', 46.5', 46.7'		
							47				90°,J,N,Qz,Pa,PI @ 46.7-48.1'(healed)		
							48				<u>DOLOMITE</u> ; gray; very fine grained; slightly weathered; strong; hard; (Bass Islands Group). 0°,J,N,Ci,Pa,PI @ 48.0'		
			49.0				49				0°,B,N,Ci,Pa,PI @ 49.1'	Core box #5 starts @ 49.0'	
							50				10°,J,N,Ci,Pa,PI @ 49.9'		
PQ	9	5.0	5.0	2.4	100	48	51				10°,J,N,Ci,Pa,PI @ 50.7' 0°,B,N,Ci,Pa,PI @ 51.1' vugs to 1/2" @ 51.3-52.8'		
							52				10°,J,N,Ci,Pa,PI @ 51.3' 0°,B,N,Ci,Pa,PI @ 52.0'		
							53				0°,B,N,Ci,Pa,PI @ 52.5' 1/4" black shale band @ 52.7' highly fractured @ 53.0-54.1'		
							54				10°,J,N,Ci,Pa,PI @ 53.3', 53.4'		
			54.0				55				90°,J,N,Ci,Pa,PI @ 54.5-55.8'		
							56				10°,B,N,Ci,Sp,PI @ 55.7'		
PQ	10	5.0	5.0	2.6	100	52	57				10°,B,N,Ci,Sp,PI @ 56.2', 56.4', 56.7'		
							58				10°,B,N,Ci,Sp,PI @ 57.7'		
							59				80°,J,N,H,Pa @ 59.2-60.2' 0°,B,N,No,No,PI,R @ 59.5', 59.8'	Core box #6 starts @ 59.0'	
			59.0				60				highly fractured @ 59.5-59.9'		

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# BORING LOG

BORING NO. MW-381D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>Grainger/Deeken</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	11	5.0	5.0	2.1	100	42	60		519		0°,B,N,No,No,PI,R @ 60.4', 60.9'		
							61		518		0°,B,N,No,No,PI,R @ 61.2' 80°,J,N,H,Pa @ 61.5-62.0'		
							62		517		0°,B,N,No,No,PI,R @ 62.0'		
							63		516		80°,J,N,H,Pa @ 62.3-63.0'		
			64.0				64		515		highly fractured @ 63.4-63.9' 0°,B,N,No,No,PI,R @ 63.4'-63.9' ½" black shale band @ 63.9' 90°,J,N,Ci,Sp,PI @ 64.1-66.0'		
							65		514		5°,B,N,Ci,Sp,PI @ 64.5'		
PQ	12	5.0	5.0	1.7	100	34	66		513		5°,B,N,Ci,Sp,PI @ 65.3'		
							67		512		2" black shale band @ 67.5'		
							68		511		grades brown, pitted to ¼" @ 67.0' 5°,B,N,Ci,Sp,PI @ 67.2', 67.5' highly fractured @ 67.5'-69.0' 90°,J,N,Ci,Sp,PI @ 67.7-69.0'		
			69.0				69		510		5°,B,N,Ci,Su,PI/Ir,Sr @ 69.5', 69.7'		
							70		509		65°,J,N,No,No,PI @ 69.9' 5°,B,N,Ci,Su,PI/Ir,Sr @ 70.2', 70.6'		
PQ	13	5.0	4.7	0.0	94	0	71		508		1/8" black shale parting @ 71.1' 5°,B,N,Ci,Su,PI/Ir,Sr @ 71.1' highly fractured @ 71.2-73.0'		
							72		507		1/8" black shale parting @ 72.2'		
							73		506		5°,B,N,Ci,Su,PI/Ir,Sr @ 73.6'		
			74.0				74		505		grades brown, brecciated @ 74.0' 75°,J,N,Ci,Su,PI @ 74.3-75.4' grades oolitic @ 74.5'		
							75						

Core box #7 starts @ 69.0'



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# BORING LOG

BORING NO. MW-381D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>JD</i> Grainger/Deeker		CHECKED BY <i>EM</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	14	5.0	5.0	1.0	100	20	75		504	highly fractured @ 75.9-78.4'			
							76		503	DOLOMITE; argillaceous; light to dark gray; very fine grained; moderately weathered; moderately strong; moderately hard; (Bass Islands Group). 90° J,N,Ci,Su,PI @ 76.1-77.5' gray clay band @ 77.0-77.4'			
							77		502				
							78		501				
							79		500	0° B,N,Ci,Sp,PI @ 79.3' fissile @ 79.7-80.6' 0° B,N,Ci,Sp,PI @ 79.8' 0° B,N,Ci,Sp,PI @ 80.3', 80.6'		Core box #8 starts @ 79.0'	
PQ	15	5.0	5.0	3.1	100	62	80		499	0° B,N,Ci,Sp,PI @ 81.3', 81.4'			
							81		498	60° J,N,Ci,Sp,PI @ 81.8'			
							82		497	0° B,N,Ci,Sp,PI @ 82.8'			
							83		496				
							84		495	DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; (Bass Islands Group). 0° B,N,Ci,Sp,PI,SR @ 84.6' 0° B,N,Ci,Sp,PI,SR @ 85.2', 85.8'			
PQ	16	5.0	5.0	2.8	100	56	85		494	0° B,N,Ci,Sp,PI,SR @ 86.2'			
							86		493	0° B,N,Ci,Sp,PI,SR @ 86.9'			
							87		492	0° B,N,Ci,Sp,PI,SR @ 88.0', 88.1'			
							88		491	90° J,VN,Ci,Su,PI/r,Sr @ 88.7-88.9' 0° B,N,Ci,Sp,PI,SR @ 88.9'			
							89		490	0° B,N,Ci,Sp,PI,SR @ 89.6'		Core box #9 starts @ 89.0'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-381D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5304.6'	GROUND ELEVATION (DATUM) E 1843.0'	TOTAL DEPTH 579.8 ft (NAVD 88) 99.0 (feet)
SURFACE CONDITIONS Grass covered area adjacent to woods		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/21/07

LOGGED BY <i>EM</i> Grainger/Deekery		CHECKED BY <i>EM</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	17	5.0	5.0	2.7	100	54	90		90.0		90° J,N,No,No,PI,R @ 89.7-90.8' 0° B,N,Cl,Sp,PI,SR @ 90.2', 90.7'		
							91		489		0° B,N,Cl,Sp,PI,SR @ 91.3'		
							92		488		90° J,N,No,No,PI,R @ 92.3-93.1'		
							93		487		highly fractured @ 92.8-93.1' 0° B,N,Cl,Sp,PI,SR @ 92.8', 92.9' 0° B,N,Cl,Sp,PI,SR @ 93.3'		
			94.0				94		486		0° J,MW,Qz Pa,PI,R @ 94.0' 0° B,N,Cl,Sp,PI,SR @ 94.3'		
							95		485		grades vuggy to 1/2" @ 95.0'		
PQ	18	5.0	5.0	4.6	100	92	96		484				
							97		483				
							98		482		0° J,MW,Qz Pa,PI,R @ 97.5'		
							99		481		0° J,MW,Qz Pa,PI,R @ 98.6'		
							100		480			Bottom of boring @ 99.0'. Water level not recorded @ completion of drilling. Monitoring well installed 06/04/07.	
							101		479				
							102		478				
							103		477				
							104		476				
							105		475				

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-381S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5306.7'	GROUND ELEVATION (DATUM) E 1838.4'	TOTAL DEPTH 9.5 (feet)
SURFACE CONDITIONS Grassy area next to Fermi Drive		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/29/07

LOGGED BY <i>Ohlmacher/Deeken</i>		CHECKED BY <i>Emfa Dogbey</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0					Undifferentiated Overburden (see log for MW-381D)	Boring advanced w/vacuum excavation.
							1			579			
							2			578			
							3			577			
							4			576			
							5			575			
							6			574			
							7			573			Below 6.0' continued w/4 1/4" ID, 8" OD hollow stem augers.
							8			572			
							9			571			
							10			570			Bottom of boring @ 9.5'. Water level not recorded. Monitoring well installed on 05/29/07.
							11			569			
							12			568			
							13			567			
							14			566			
							15			565			



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-383D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

SAMPLING		LOGGED BY <i>GCO</i> Grainger/Ohlmacher	CHECKED BY <i>GCO</i> Dobbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	1					3.0	0		582		Lean CLAY (CL) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; olive black; very soft; moist; no reaction w/HCl; homogeneous; (Topsoil-Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							1		581		Lean CLAY (CL) - About 95% low plasticity, medium toughness; no dilatancy, medium to high dry strength fines; about 5% fine to coarse, subrounded, hard sand; dark yellowish brown; firm; moist; strong reaction w/ HCl; homogeneous; (Fill).	
							2		580			
							3		579			
							4		578			
			5.0				5		577		Discrete sample collected from S1 @ 4.6-5.0'.	
S	2					4.3	6		576			
							7		575			
							8		574			Discrete sample collected from S2 @ 7.8-8.2'.
							9		573			
			10.0				10		572			
							11		571		1/4" thick layer of wood @ 11.6'	
S	3					5	12		570		Lean CLAY (CL) - About 90% high plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine, rounded, hard sand; medium gray; firm; moist; swampy odor; strong reaction w/HCl; homogeneous.	
							13		569		PEAT (PT) - Grayish black; wet; fibrous, organic material.	
							14		568		Lean CLAY (CL) - About 100% medium plasticity, low toughness, no dilatancy, high dry strength fines; dark gray; firm; moist; swampy odor; strong reaction w/HCl;	Discrete sample collected from S3 @ 14.7-15.0'.
							15		568			

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# BORING LOG

BORING NO. MW-383D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

SAMPLING			LOGGED BY <i>600</i> Grainger/Ohlmacher	CHECKED BY <i>600</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD						
S	4		15.0			5.0	15		567		homogeneous; (Lacustrine Deposit).	
							16		566			
							17		565			
							18	X	564			Discrete sample collected from S4 @ 17.7-18.1'.
							19		563		Lean CLAY with Gravel (CL) - About 85% low plasticity, high toughness, no dilatancy, medium to high dry strength fines; about 10% fine to coarse, subrounded, hard gravel; about 5% fine to coarse sand; yellowish brown & brownish yellow mottled; firm; moist; strong reaction w/HCl; lensed/ laminated; (Glacial Till).	
							20		562			
							21		561			
S	5		20.0			5.0	22		560		Lean CLAY with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 10% fine to coarse, subrounded to angular, hard gravel; about 10% fine to coarse, rounded to angular sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
							23	X	559			Discrete sample collected from S5 @ 22.8-23.2'.
							24		558			
							25		557		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 15% fine to coarse, subrounded to angular, hard gravel; about 10% fine to coarse, rounded to angular sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
							26		556			
S	6		25.0			NR	27		555		DOLOMITE; vuggy; gray; micritic; slightly weathered; strong; moderately hard; banded; 10% vugs; close joints; (Bass Islands Group).	Sampling from 28.0-29.0' is unknown
							28		554			Set nominal 6" temporary steel casing to 28'. Below 29' continued w/triple tube wire line core barrel w/
							29		553		highly fractured @ 29.0-29.4'	
							30		553		15°, J, VN, T, No, No, St, R @ 29.7'	

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# BORING LOG

BORING NO. MW-383D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

LOGGED BY <i>GEO</i> Grainger/Ohlmacher		CHECKED BY <i>GEO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	1	2.0	1.8	0.7	90	35	30		552		highly fractured @ 30.0-30.1'	diamond bit using water as drilling fluid. Core box #1 starts @ 29.0'
			31.0				31		551		0°,J,W,No,No,PI,R @ 31.3'	
							32		550		calcite in vugs, partial filling @ 31.4-31.6'	
							33		550		0°,J,VN,No,No,PI,SR @ 32.6'	
PQ	2	5	5	4.8	100	96	34		549			about 35% drill water return around 35'
							35		548			
							36		547		0°,J,VN,No,No,PI,SR @ 35.1'	
							37		547		0°,J,VN,No,No,PI,R @ 35.4'	
			36.0				38		546		brown weathering of dolomite near joint	Core box #2 starts @ 38.5'
							39		545		grades brownish gray @ 37.6'	
PQ	3	5	4.2	3.9	84	78	40		544		25°,J,VN,No,No,St,R @ 38.4-38.6'	
							41		543		grades gray @ 39.1'	
							42		542		35°,J,VN,No,No,PI,R @ 40.0-40.2'	No drill water return @ 40.0'
							43		542		60°,J,VN,Ca,Pa,PI,SR @ 40.3-40.5'	
			41.0				44		541		dark gray shale partings @ 41.0-41.4'	
							45		541		highly fractured @ 41.1-41.4'	
							46		540		highly fractured @ 41.8-41.9'	
							47		539			
PQ	4	5	5	2.4	100	48	48		538		0°,J,T,No,No,St,SR @ 43.0'	
							49		538		90°,J,T,No,No,PI,SR @ 43.1-46.0'	
							50		537		0°,B,VN,No,No,PI,S @ 43.7'	highly fractured @ 44.1-44.7'
							51		537		grades mottled light gray-dark gray; dark gray is staining along tight fractures, no vugs @ 44.4'	

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# BORING LOG

BORING NO. MW-383D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7' 582.3 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

SAMPLING		LOGGED BY <i>GLO for Grainger/Ohlmacher</i>	CHECKED BY <i>GLO for Dogbey/Ohlmacher</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							45		537			
			46.0				46		536			Mechanically broken @ 45.5-46.0' when removed from the barrel
							47		535		0°, B, VN, No, No, PI, SR @ 46.5' fractured @ 46.9-47.0' grades banded gray, 10% vugs @ 47.0' 60°, J, T, No, No, PI, SR @ 47.0-47.2'	
PQ	5	5	5	4.6	100	92	48		534		0°, J, VN, No, No, PI, SR @ 47.9' shale parting - 0°, B, VN, PI, SR @ 48.5'	Core box #3 starts @ 47.9'
							49		533		10°, J, VN, No, No, PI, SR @ 49.3' 90°, V, VN, Ca, Fi, PI, SR @ 49.4-49.8	
							50		532		highly fractured @ 50.2-50.4'	Drill water return <25% @ about 50'
			51.0				51		531		highly fractured, loose fragments, no cementing @ 51.0-52.2'	
PQ	6	4	3.1	0	78	0	52		530		90°, J, VN, No, No, PI, SR @ 52.1-54.1', 52.1-53.0' (2 parallel joints)	
							53		529		grades brownish gray, some fossil fragments & oolites @ 53.3'	
							54		528		highly fractured w/calcite infill up to 0.5" thick @ 54.0-54.5'	
							55		527		highly fractured; not cemented @ 54.5-54.8' grades gray, 10% vugs, no fossils, no oolites @ 54.8'	
PQ	7	1	1	1	100	100	56		526		10°, J, VN, No, No, PI, SR @ 56.2'	
			56.0				57		525			
							58		524		10°, J, VN, No, No, PI, SR @ 58.2' 90°, J, T, No, No, PI, SR @ 58.5-59.8'	Core box #4 starts @ 58.0'
PQ	8	5	4.9	3.3	98	66	59		523		highly fractured @ 58.7-59.1'	
							60		523		DOLOMITE; oolitic; brownish gray; very fine grained; slightly weathered; strong; moderately hard; banded;	



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# BORING LOG

BORING NO. MW-383D

SHEET 5 OF 7

CLIENT		PROJECT		PROJECT NO.								
Detroit Edison		Fermi 3 COL Application		147483								
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)								
Monroe, Michigan		N 5805.4'		E 3435.7'								
				582.3 ft (NAVD 88)								
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START								
Grassy field		Plant		05/09/07								
DATE FINISHED				05/15/07								
SAMPLING		LOGGED BY		CHECKED BY								
		Grainger/Ohlmacher		Dogbey/Ohlmacher								
				APPROVED BY Meyer								
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							60		522		30% vugs; porous; (Bass Islands Group). J,T,No,No,PI,SR @ 60.5-61.0'	
			61.0				61		521		60°,J,T,No,No,PI,SR @ 61.0-61.5'	
							62		520		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; 10% vugs; (Bass Islands Group). highly fractured @ 62.0-62.3' grades 0% vugs @ 62.3'	
PQ	9	5	5	3.3	100	66	63		519		25°,J,VN,No,No,PI,SR @ 62.6' 20°,J,VN,No,No,WA,SR @ 63.3'	
							64		518		highly fractured @ 64.0-64.2'	
							65		517		10°,J,T,No,No,PI,S @ 64.6 J,T,No,No,PI,SR @ 64.9-65.6'	
							66		516		40°,J,T,No,No,PI,SR @ 65.3-65.7' (2 joints)	
			66.0				67		515		highly fractured @ 66.7-66.9'	Core box #5 starts @ 66.9'
							68		514		0°,B,VN,No,No,PI,SR @ 67.3' 0°,B,VN,No,No,PI,SR @ 67.7' highly fractured, loose gravel @ 67.8-69.9'	
PQ	10	5	4.0	1.5	80	30	69		513			Driller reported soft (clay) material
							70		512		80°,J,T,No,No,PI,SR @ 69.7-70.5' 80°,J,T,No,No,PI,SR @ 70.2-70.5'	
							71		511		highly fractured @ 71.0-71.1' highly fractured, loose gravel @ 71.3-71.6'	
			71.0				72		510		15°,J,T,No,No,PI,R @ 72.1' 80°,J,T,No,No,PI,SR @ 72.3-73.0' highly fractured: loose gravel @ 72.4-72.5'	
							73		509		grades about 10% vugs @ 73.1' grades brecciated, indurated, tan-gray, strong, lots of stylolites @ 73.3' highly fractured, loose gravel @ 73.4-73.6'	
PQ	11	5	4.8	3.7	96	74	74		508		25°,J,T,No,PI,SR @ 74.3'	
							75		508			

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# BORING LOG

BORING NO. MW-383D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

LOGGED BY <i>GLO</i> Grainger/Ohlmacher		CHECKED BY <i>GLO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							75		507		0°, J, T, No, No, PI, R, joint along stylolite @ 75.1'		
			76.0				76		506				
							77		505				
PQ	12	5	5.0	5	100	100	78		504		highly fractured, loose @ 78.5-78.6'	Core box #6 starts @ 77.3'	
							79		503				
			81.0				80		502		15°, J, T, No, No, PI, SR, joint along stylolite @ 79.6' grades gray, no breccia, no vugs @ 79.9' 20°, J, VN, No, No, PI, R @ 80.0' 0°, B, T, No, No, PI, S @ 80.4', 80.8', 81.3', 81.5'		
							81		501				
							82		500		highly fractured, very close spacing, loose; @ 81.8-85.6' 90°, J, T, No, No, PI, SR @ 82.6-84.0', 84.4-85.3'		
PQ	13	5	4.4	0.0	88	0	83		499				
							84		498				
							85		497				
			86.0				86		496		SHALE; dark gray to black; slightly weathered; weak; moderately hard; (Bass Islands Group). DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; (Bass Islands Group).		
							87		495		90°, J, T, No, No, PI, SR @ 85.6-86.0, 86.0-86.6' highly fractured, very close spacing to gravel like @ 86.0-87.9'		
							88		494		20°, J, T, No, No, PI, S @ 86.9' 50°, J, T, No, No, PI, SR @ 87.0-87.3', 87.7-88.0' 10°, J, VN, PI, SR @ 87.7'	Core box #7 starts @ 87.7'	
PQ	14	5	5.0	2.0	100	40	89		493		30°, J, T, No, No, Ir, R @ 88.4-88.6' 30°, J, T, No, No, Ir, R @ 89.0-89.3'		
							90		493		15°, J, T, Cl, Pa, PI, S @ 89.8'		

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# BORING LOG

BORING NO. MW-383D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5805.4'	GROUND ELEVATION (DATUM) E 3435.7'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/15/07

LOGGED BY <i>GLO</i> Grainger/Ohlmacher		CHECKED BY <i>GLO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								90		492		15°, J, T, Cl, Pa, Pl, S @ 90.1' highly fractured, very close spacing; loose @ 90.4-91.0'	
			91.0					91		491		50°, J, T, No, No, Pl, SR @ 91.1-91.6' highly fractured, very close spacing @ 91.3-91.6'	
								92		490		90°, J, T, No, No, Pl, SR @ 91.6-91.9' 0°, B, VN, No, No, Pl, S @ 91.9' grades gradual increase to 10% vugs @ 91.9-92.2' grades 0% vugs @ 92.2'	
PQ	15	5	5.0	2.2	100	44		93		489		0°, B, VN, No, No, Pl, S @ 92.3' 90°, J, T, No, No, Pl, SR @ 92.6-93.0' 10°, J, VN, No, No, Pl, SR @ 93.0' 0°, B, No, No, Pl, SR @ 93.3', 93.4' fractured @ 93.3-93.4'	
								94		488		10°, J, T, No, No, Pl, SR @ 93.8'	
								95		487		highly fractured, loose @ 94.9-95.1' 0°, B, No, No, Pl, SR @ 95.3', 95.6' (2 parallel joints), 95.8'	
			96.0					96		486		0°, B, No, No, Pl, SR @ 96.3', 96.5'	
PQ	16	2.5	2.5	1.3	100	52		97		485		90°, J, T, No, No, Pl, SR @ 96.5-98.2' highly fractured, loose @ 96.8-97.0' highly fractured, very close spacing, loose @ 97.2-97.6'	Core box #8 starts @ 96.8'
								98		484			
			98.5					99		483		90°, J, T, No, No, Pl, SR @ 98.2-98.5' highly fractured, gravel like @ 98.5-98.8' 90°, J, T, No, No, Pl, SR @ 98.8-100.2'	
PQ	17	2.5	2.0	0.0	80	0		100		482		fractured, loose @ 100.2-100.4'	
								101		481			Bottom of boring @ 101'. Water level @ 15.6' @ completion of drilling. Monitoring well installed on 05/31/07.
								102		480			
								103		479			
								104		478			
								105		478			

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**BLACK & VEATCH**

**BORING LOG**

BORING NO. MW-383S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5809.1'	GROUND ELEVATION (DATUM) E 3432.7'	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/16/07

SAMPLING		LOGGED BY Ohlmacher <i>GO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
SPT	1	3	3	3	6	1	0		582		Sandy Lean Clay (CL) - About 70% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 20% fine to coarse, subrounded to angular sand; about 10% fine to coarse, subrounded to angular gravel, fractured w/1 hammer blow; brown; firm; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.
SPT	2	3	4	3	7	0	1	579	578			
SPT	3	5	4	4	8	0.2	2	577	576			
SPT	4	2	3	3	6	0.3	3	575	574			
SPT	5	WOH	3	3	6	1.5	4	573	572			
							5	571	570			
							6	570	569			
							7	569	568			
							8	568	568			
							9	568	568			
							10	568	568			
							11	568	568			
							12	568	568			
							13	568	568			
							14	568	568			
							15	568	568			

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Gravel blocked split-spoon for SPT-3.

Gravel blocked split-spoon for SPT-4.

Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; gray to brown; firm; moist; no reaction w/HCl; homogeneous; (Glacial Till).



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-383S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5809.1'	GROUND ELEVATION (DATUM) E 3432.7'	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Grassy field		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/16/07

SAMPLING		LOGGED BY Ohlmacher <i>GO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
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TW	6					1.7	15		567		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded to angular sand; gray to brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP=2.7 TSF TV=0.75 TSF
							16		566			Bottom of boring @ 16.5'. Water level not recorded. Monitoring well installed on 05/16/07.
							17		565			
							18		564			
							19		563			
							20		562			
							21		561			
							22		560			
							23		559			
							24		558			
							25		557			
							26		556			
							27		555			
							28		554			
							29		553			
							30					



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5537.6'	GROUND ELEVATION (DATUM) E 4402.8'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad tracks		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>GLO</i> Grainger/Ohlmacher	CHECKED BY <i>GLO</i> Dobey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
S	1	0 - 3.8		581 - 578		<p>ORGANIC Soil (OL/OH) - About 90% fines; about 10% fine organics; very dark brown; (Fill).</p> <p>Poorly graded SAND with Silt (SP-SM) - About 90% fine sand; about 10% non-plastic, low toughness, no dilatancy, no dry strength fines; very dark brown; very soft; moist; strong reaction w/HCl; laminated; (Fill).</p> <p>Poorly graded GRAVEL with Sand (GP) - About 80% fine to coarse, angular, hard gravel; about 20% fine to coarse, angular, hard sand; light brownish gray; moist; strong reaction w/HCl; homogeneous; (Fill).</p>	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	2	5.0 - 4.4		576 - 574		<p>Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded sand; about 5% fine to coarse, rounded gravel; dark grayish brown; firm; moist; homogeneous; (Fill).</p>	
S	3	10.0 - 3.0		571 - 567			





# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5537.6'	GROUND ELEVATION (DATUM) E 4402.8'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad tracks		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/17/07

SAMPLING			LOGGED BY <i>GLE</i> Grainger/Ohlmacher	CHECKED BY <i>GLE</i> Dogbey/Ohlmacher	APPROVED BY <i>SM</i> Meyer
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	4		15.0			4.7	15	566		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; very dark gray; very soft; moist; no reaction w/ HCl; homogeneous; (Lacustrine Deposit).	15.0	
							16	565			16.0	
							17	564		Lean CLAY with Sand (CL) - About 80% medium plasticity, low toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 5% fine to coarse, rounded to subrounded, hard gravel; dark grayish brown & gray; mottled; hard; moist; laminated; (Glacial Till).		
							18	563				
							19	562				
			20.0				20	561				
							21	560				
S	5					5.0	22	559		Elastic SILT with Sand (MH) - About 75% medium plasticity, low toughness, no to slow dilatancy, medium dry strength fines; about 15% fine to coarse, angular, hard sand; about 10% fine to coarse, angular, hard gravel; dark gray ; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	21.3	
							23	558				
							24	557				
			25.0				25	556				
							26	555				
							27	554		Elastic SILT with Gravel (MH) - About 75% medium plasticity, low toughness, no to slow dilatancy, medium dry strength fines; about 20% fine to coarse, angular, hard gravel; about 5% fine to coarse, angular, hard sand; w/cobbles; dark gray ; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till). 4" cobble @ 27.0'	27.0	
S	6					5.0	28	553				
							29	552				
							30	552		DOLOMITE; gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).	29.0	

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# BORING LOG

BORING NO. MW-384D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5537.6'	GROUND ELEVATION (DATUM) E 4402.8' 581.3 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad tracks		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Geo</i> Grainger/Ohlmacher	CHECKED BY <i>Geo</i> Dobbey/Ohlmacher	APPROVED BY <i>Em</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
			46.0				45		536		45° J,T,No,No,PI,SR @ 44.2-44.4' 0° B,VN,No,No,PI,S @ 44.6', 44.9', 45.3', 45.4', 45.7', 46.5' grades interbedded w/shale bands, about 0.2' spacing @ 44.7' 70° J,No,No,PI,SR @ 46.0-46.3'	
PQ	4	5.0	5.0	4.3	100	86	46		535		0° B,VN,No,No,PI,S @ 47.8', 48.0' grades w/shale partings @ 48.2' 0° B,VN,No,No,PI,S @ 48.6', 48.9', 49.3'	Core box #2 starts @ 48.0'
			51.0				47		534			
							48		533		highly fractured, very closely spaced, irregular joints @ 50.0-50.4' 20° J,VN,No,No,PI,SR @ 50.1' bedding dips 30° @ 50.3' 50° J,T,No,No,PI,SR @ 50.5-51.0' (3 parallel joints) grades 20% vugs @ 51.2' highly fractured, very closely spaced joints @ 51.2-51.5' highly fractured, gravelly @ 52.1-52.3'	
PQ	5	5.0	5.0	4.1	100	82	49		532		highly fractured, very closely spaced joints @ 52.9-53.1' 75° J,VN,No,No,PI,SR @ 53.5-54.0'	
			56.0				50		531		grades 10% vugs @ 54.0' 10° J,VN,PI,SR @ 54.0'	
							51		530		70° J,VN,No,No,PI,SR @ 55.0-55.3' 40° J,VN,No,No,PI,SR @ 55.2-55.4'	
							52		529		grades brecciated, indurated, w/stylolites @ 56.2'	
							53		528			
							54		527		70° J,VN,Ca,Pa,PI,SR @ 57.4-58.1' highly fractured, very closely spaced joints @ 57.6-58.1' grades w/no brecciation, bedding dips 0° @ 58.0'	Core box #3 starts @ 58.1'
PQ	6	5.0	4.6	3.5	92	70	55		526		0° B,VN,No,No,PI,S @ 58.7', 59.8'	
							56		525		45° J,T,No,No,PI,SR @ 59.3-59.7' fractured, very closely spaced joints @ 59.4-59.7'	Drill stem dropped about 0.5' @ 59'
							57		524			
							58		523			
							59		522			
							60					

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 5 OF 7

CLIENT										PROJECT										PROJECT NO.				
Detroit Edison										Fermi 3 COL Application										147483				
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH									
Monroe, Michigan					N 5537.6'					E 4402.8'					581.3 ft (NAVD 88)					101.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED				
Grassy area behind berm from railroad tracks										Plant					05/09/07					05/17/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY				
										Grainger/Ohlmacher					Dogbey/Ohlmacher					Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
							60		521		highly fractured, very closely spaced joints to gravelly @ 60.3-61.0'													
			61.0				61		520															
							62		519		70° J,T,No,No,PI,SR @ 62.1-63.1'													
							63		518		fractured, very closely spaced joints @ 62.4-63.0'													
PQ	7	5.0	5.0	3.4	100	68	63		518		0° J,VN,Ir,R @ 63.0'	Core box #4 starts @ 62.7'.												
							64		517		0° B,VN,No,No,PI,S @ 63.7', 64.3', 64.7'													
							64		517		90° J,T,No,No,PI,SR @ 63.7-64.3'													
							65		517		highly fractured @ 64.1-64.3', 67.8-68.1'													
							65		516		50° J,T,No,No,PI,SR @ 64.8-65.1'													
							66		516		0° B,VN,No,No,PI,S @ 65.4', 65.6'													
			66.0				66		515		90° J,T,No,No,PI,SR @ 66.0-66.9'													
							67		515															
							67		514		20° J,VN,No,No,PI,SR @ 67.0', 67.4'													
							68		514		SHALE; black; slightly weathered; weak; low hardness; (Bass Islands Group).													
PQ	8	5.0	4.4	2.6	88	52	68		513		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; 15% vugs; (Bass Islands Group).													
							69		513		80° J,VN,No,No,PI,R @ 67.5-68.2'													
							69		512		highly fractured @ 67.8-68.1'													
							70		512		highly fractured, very closely spaced joints @ 68.6-69.3'													
							70		511		50° V,N,Ca,Fi,Ir,R @ 69.6-69.9'													
							70		511		0° B,VN,No,No,PI,S @ 70.3'													
			71.0				71		510		grades no vugs @ 71.0'													
							71		510		0° B,VN,No,No,PI,S @ 71.3', 72.1', 73.0'													
							72		509		highly fractured, very closely spaced joints @ 72.1-73.0'													
							73		509		90° J,T,No,No,PI,SR @ 72.3-73.0', 74.8-75.9'													
PQ	9	5.0	4.9	2.2	98	44	73		508		highly fractured @ 73.1-74.0'	Core box #5 starts @ 73.1'.												
							74		508		zone w/20% vugs @ 73.7-74.1'													
							74		507		25° J,VN,Ca,Fi,PI,S @ 73.9'													
							75		507		highly fractured, very closely spaced joints to gravelly @ 74.3-74.7'													

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5537.6'	GROUND ELEVATION (DATUM) E 4402.8' 581.3 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad tracks		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/17/07

LOGGED BY <i>GOB</i> Grainger/Ohlmacher		CHECKED BY <i>GOB</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								75		506		highly fractured, very closely spaced joints @ 75.4-75.7'	
			76.0					76		505		15°, J, VN, No, No, PI, SR @ 76.4'	
								77		504		0°, B, VN, No, No, PI, S @ 76.7', 76.9'	
PQ	10	5.0	4.4	1.4	88	28		78		503		highly fractured, very closely spaced joints @ 77.5-77.9'	
								79		502		90°, J, T, No, No, PI, SR @ 77.8-78.5'	
								79		502		0°, B, VN, No, No, PI, S @ 78.6'(2 parallel joints), 78.9', 79.6'	
								80		501		fractured, closely spaced joints @ 79.2-79.4'	
								80		501		70°, J, T, No, No, PI, SR @ 79.9-80.6'	
								81		500		0°, B, VN, No, No, PI, S @ 80.1'	
			81.0					81		500		highly fractured, very closely spaced joints @ 80.3-80.7'	
								82		499		highly fractured, very closely spaced joints, @ 81.2-82.2'	Some core loss @ 81.2-82.2'
								83		498		highly fractured, very closely spaced joints @ 82.4-82.7'	
PQ	11	5.0	4.4	1.0	88	20		83		498		0°, B, VN, No, No, PI, S @ 82.9', 83.5'	
								84		497		0°, B, VN, No, No, PI, S @ 84.0', 84.3'	
								85		496		highly fractured, very closely spaced joints @ 84.4-84.7'	
								85		496		90°, J, T, No, No, PI, SR @ 84.7-85.6'	
								86		495		highly fractured, closely spaced joints @ 85.0-85.4'	
								86		495		fractures, very closely spaced joints @ 85.7-86.0'	
			86.0					87		494		50°, J, T, No, No, PI, SR @ 85.7-86.6'	
								87		494		highly fractured, very closely spaced joints, some clay fill @ 86.9-87.1'	
								88		493		80°, J, T, No, No, PI, SR @ 87.2-87.6'	
								88		493		highly fractured, very closely spaced joints @ 87.6-88.1'	
PQ	12	5.0	4.2	0.7	84	14		88		493		50°, J, T, No, No, PI, SR @ 87.8-88.1'	
								89		492		25°, J, T, No, No, PI, SR @ 88.2', 90.5'	
								89		492		0°, B, T, No, No, PI, S @ 88.6'	
								89		492		85°, J, T, No, No, WA, SR @ 88.6-89.7'	
								90		492		highly fractured, very closely spaced joints @ 89.1-89.7'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5537.6'	GROUND ELEVATION (DATUM) E 4402.8'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad tracks		COORDINATE SYSTEM Plant	DATE START 05/09/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Granger/Ohlmacher</i>	CHECKED BY <i>Dogbey/Ohlmacher</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								90		491		75°, J, T, No, No, PI, SR @ 89.7-90.4'	
			91.0					91		490		90°, J, T, Ca, Sp, PI, SR @ 91.0-96.0'	
								92		489		grades slightly brownish gray @ 92.0'	
PQ	13	5.0	5.0	4.6	100	92		93		488			
								94		487			
								95		486			
			96.0					96		485		gravel-size fragments @ 96.0-98.2'	
								97		484			
PQ	14	5.0	2.9	0.6	58	12		98		483		90°, J, No, No, PI, SR @ 98.2-99.4'	
								99		482		40°, J, T, No, No, PI, R @ 99.2-99.5'	
								100		481		90°, J, T, No, No, PI, SR @ 99.5-99.9'	
								101		480			Bottom of boring @ 101.0'. Water level @ 15.8' @ completion of drilling. Monitoring well installed on 05/31/07.
								102		479			
								103		478			
								104		477			
								105		477			

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5532.6'	GROUND ELEVATION (DATUM) E 4403.9'	TOTAL DEPTH 17.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad track		COORDINATE SYSTEM Plant	DATE START 05/18/07	DATE FINISHED 05/18/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	WOH	2	5	7	1.5	0 - 1.5		581 - 579		Fat CLAY with Sand (CH)-About 70% high plasticity, high toughness, slow dilatancy fines; about 20% fine sand; about 10% organics; very dark gray; soft; moist; strong reaction w/HCl; homogeneous; (Topsoil-Fill).	Boring advanced w/1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer. PP=0.75 TSF	
SPT	2	7	5	4	9	1.0	1.5 - 5.0		579 - 575		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded to angular sand; about 5% fine to coarse rounded gravel; dark yellowish brown; firm; moist; homogeneous; (Fill).	PP=3.0 TSF	
SPT	3	WOH	1	1	2	0.2	5.0 - 11.5		575 - 570				
							11.5 - 15		570 - 567				



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-384S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5532.6'	GROUND ELEVATION (DATUM) E 4403.9'	TOTAL DEPTH 17.0 (feet)
SURFACE CONDITIONS Grassy area behind berm from railroad track		COORDINATE SYSTEM Plant	DATE START 05/18/07	DATE FINISHED 05/18/07

SAMPLING		LOGGED BY Ohlmacher <i>600</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	4					1.4	15		566			Lean CLAY (CH)-About 100% LL=43, PL=19, no dilatancy fines; brown to black; soft; moist; weak reaction w/HCl; lensed; (Peat & Lacustrine Deposit).	PP=0.5 TSF TV=0.35 TSF
							16		565				
							17		564				Bottom of boring @ 17.0'. Water level @ 9.3' @ completion of drilling. Monitoring well installed on 05/18/07.
							18		563				
							19		562				
							20		561				
							21		560				
							22		559				
							23		558				
							24		557				
							25		556				
							26		555				
							27		554				
							28		553				
							29		552				
							30						





# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8'	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							0		582		TOPSOIL;	Boring advanced w/vacuum excavation.
							1		581		Silty GRAVEL with Sand (GM) - About 65% coarse, angular, hard gravel w/max. size 3"; about 20% fine to coarse, angular, hard sand; about 15% fines; yellowish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	
							2		580			
							3		579			
							4		578			
			5.0				5		577		Lean CLAY with Sand (CL)-About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% coarse, subrounded to rounded, hard sand; trace gravel; yellowish brown & gray; (Fill).	Refusal to vacuum excavation @ 5.2'. Continued below 5.2' w/2 1/4" OD geoprobe continuous barrel sampler. Grab sample @ 7.0'.
GP	1					5.0	7		575			
							8		574			
							9		573			
			10.0				10		572			
							11		571			
							12		570			
GP	2					5.0	13		569			Grab sample @ 12.5'.
							14		568			
							15		567			

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8'	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

SAMPLING		LOGGED BY <i>JD</i> Grainger/Deeken	CHECKED BY <i>EM</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER							
GP	3	15.0		567		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; very soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	Grab sample @ 18.0'.	
		20.0		566			Lean CLAY with Sand (CL) - About 80% medium plasticity, low toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; trace gravel; dark gray; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till). 0.1' fine to coarse sand seam; wet @ 21.0'	Set 1" temporary PVC screen from 18 to 22' to collect water samples, then removed PVC casing.
GP	4	22.0		565				Grab sample @ 22.0'.
		24.0		564				
		25.0		563				
		26.5		562				
		28.5		561				
S	5	3.5		560		Lean CLAY with Sand (CH) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, angular to rounded, hard sand; about 10% fine to coarse angular to subrounded hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Refusal to geoprobe @ 25.0'. Below 25' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Grab sample @ 23.5'	
				559			grades w/ gravel w/max. size 3" @ 26.5'	
				558			DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group). highly fractured @ 26.5-28.5'	
				557			0°, B, N, Cl, Pa, Pl, SR @ 29.8', 30.4', 31.5', 31.8', 31.9', 32.9';	Set nominal 6" temporary steel casing to 28.5'. Below 28.5' continued w/ triple tube wire line core barrel
				556				
				555				
				554				
				553				

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8' 582.3 ft (NAVD 88)	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

LOGGED BY <i>EM for</i> Grainger/Deeken		CHECKED BY <i>EM for</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	1	5	5.0	2.1	100	42	30		552	85° J,N,Ci,Pa,PI,SR @ 30.6-31.1',31.4-32.0',32.9-33.0'	w/diamond bit using water as drilling fluid. Core box #1 starts @ 28.5'. 70% drill water return. Drill chatter @ 31.0'.		
			33.5				31		551				
							32		550				
PQ	2	5	5.0	0.4	100	8	33		549	60° J,N,Ca,Pa,PI,SR @ 34.3',34.8',35.1',35.6',36.5',37.0',38.5'	Drill chatter throughout Run 2.		
							34		548				
							35		547				
PQ	3	5	5.0	2.8	100	56	36		546	5° J,N,Ci,Pa,PI,SR @ 35.5',35.8',36.1',36.4',36.9'	Core box #2 starts @ 38.5'.		
							37		545				
							38		544				
			38.5				39		543	80° J,N,Ca,Pa,PI,SR @ 38.1-39.8'	Core box #2 starts @ 38.5'.		
							40		542				
							41		541				
PQ	3	5	5.0	2.8	100	56	42		540	2" black clay band @ 39.9'	Core box #2 starts @ 38.5'.		
							43		539				
							44		538				
			43.5				45		538	DOLOMITE; argillaceous; light gray; micritic; moderately weathered; strong; moderately hard; (Bass Islands Group).	Core box #2 starts @ 38.5'.		
							46		537				
							47		536				
							48		535	DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; vugs to 1/2"; (Bass Islands Group).	Core box #2 starts @ 38.5'.		
							49		534				
							50		533				
							51		532	5° B,N,Ci,Pa,PI,SR @ 40.6',40.9',42.0',42.4',42.7'	Core box #2 starts @ 38.5'.		
							52		531				
							53		530				
							54		529	30° J,N,Ci,Pa,PI,SR @ 41.6',42.2',43.0'	Core box #2 starts @ 38.5'.		
							55		528				
							56		527				
							57		526	80° J,N,Ci,Pa,PI,SR @ 42.0-42.3'	Core box #2 starts @ 38.5'.		
							58		525				
							59		524				

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# BORING LOG

BORING NO. MW-386D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8' 582.3 ft (NAVD 88)	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

LOGGED BY <i>Grainef/Decker</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	4	5	5.0	3.3	100	66	45		537		15°, J, MW, CI, Sp, PI, VR @ 45.2', 46.1'		
							46		536		vugs to 1/2" @ 46.1-48.0' 3" argillaceous inclusion @ 46.6'	Core box #3 starts @ 46.3'	
							47		535				
							48		534		1" voids infilled w/calcite @ 47.7-48.3'		
			48.5				49		533		70°, J, MW, CI, Sp, PI, VR @ 48.3' 80°, J, N, No, No, PI, R @ 49.1', 49.2', 49.8', 51.6', 51.9', 52.6', 52.7'		
							50		532		75°, J, N, CI, Pa, PI, Slk @ 50.0' 15°, J, N, CI, Sp, PI, SR @ 50.7' black shale seam @ 50.0' brecciated; healed @ 50.2-50.8'		
PQ	5	5	4.9	1.2	98	24	51		531		60°, J, N, CI, Pa, PI, SR @ 54.3', 55.2', 55.3', 55.4', 56.4', 56.8', 57.2', 57.3', 57.4', 58.4'		
							52		530				
							53		529				
			53.5				54		528				
							55		527		variable brecciation; healed @ 54.4-58.4'	25% drill water return @ 54.0'	
							56		526		highly fractured @ 55.2-55.7'	Core box #4 starts @ 54.8'	
PQ	6	5	5.0	2.9	100	58	57		525		highly fractured @ 56.3-56.9'		
							58		524				
			58.5				59		523		70-80°, B @ 59.1-60.5' (intact bedding planes)		
							60		523		60°, J, N, No, No, PI, S @ 58.8', 59.0', 60.3'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8' 582.3 ft (NAVD 88)	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

LOGGED BY <i>500 for Grainger/Deeken</i>		CHECKED BY <i>for Dogbey/Meyer</i>	APPROVED BY <i>for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	7	5	5.0	1.6	100	32	60		522				
							61		521			DOLOMITE; oolitic; brown; fine grained; slightly weathered; strong; hard; brecciated; healed; occasional vugs to 1/8"; weak reaction w/HCl; (Bass Islands Group). 60°, J, N, No, No, PI, S @ 60.6', 61.5', 62.2', 62.9', 63.4' 80°, J, N, Cl, Sp, PI, SR @ 62.5', 63.3'	
			63.5				62		520				
							63		519			brecciation grades out @ 63.0'	
							64		518			brecciated @ 64.0-65.7' w/calcite inclusions	Core box #5 starts @ 63.5'
PQ	8	5	5.0	2.5	100	50	65		517				
							66		516			60°, J, N, Cl, Sp, PI, SR @ 63.6', 64.1', 65.1', 65.7', 65.9', 66.3', 68.3' 1/4" thick black shale parting @ 66.0' grades w/ occasional white bands	
							67		515				
							68		514				
			68.5				69		513				
							70		512			DOLOMITE; argillaceous; brown; micritic; slightly weathered; strong; hard; brecciated; healed; (Bass Islands Group).	
PQ	9	5	5.0	3.8	100	76	71		511			5°, B, N, Cl, Pa, PI, SR @ 69.1', 69.4', 71.1', 71.5', 71.6', 72.0', 72.8', 73.3'	
							72		510				
							73		509				
			73.5				74		508				
							75		508				

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8' 582.3 ft (NAVD 88)	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

LOGGED BY <i>Grainger/Deeken</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	10	5	5.0	5.0	100	100	75		507				
							76		506				
							77		505				
							78		504				
			78.5				79		503				
PQ	11	5	5.0	3.2	100	64	81		501				
							82		500				
							83		499				
			83.5				84		498				
							85		497				
PQ	12	5	5.0	4.5	100	90	86		496				
							87		495				
							88		494				
			88.5				89		493				
							90						

DOLOMITE; gray; very fine grained; slightly weathered; strong; hard; brecciated; healed; (Bass Islands Group).  
 occasional vugs to 1/4" @ 79.0'  
 35°, J, N, CI, Pa, PI, SR @ 77.8'  
 0°, B, MW, CI, Pa, PI, VR @ 79.7'  
 60°, J, N, CI, Sp, PI, R @ 80.0'  
 60°, J, N, CI, Sp, PI, R @ 80.7'  
 85°, J, N, CI, Sp, R @ 81.0-81.7'  
 60°, J, N, CI, Sp, PI, R @ 82.6'  
 60°, J, N, CI, Sp, PI, R @ 84.0'  
 0°, B, MW, CI, Pa, PI, VR @ 86.4'  
 85°, J, N, H, Sp, R @ 86.5-88.0'  
 1/8" black shale parting @ 86.5'  
 grades argillaceous @ 87'  
 brecciation grades out @ 88.0'  
 0°, B, MW, CI, Pa, PI, VR @ 88.0'  
 2" black shale band @ 89.0'  
 30°, J, N, CI, Pa, SR @ 88.6', 89.7'

Core box #7 starts @ 82.5'

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6336.7'	GROUND ELEVATION (DATUM) E 5203.8'	TOTAL DEPTH 91.5 (feet)
SURFACE CONDITIONS Level, grassy		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 06/06/07

LOGGED BY <i>Granger/Deeken</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	13	3	2.5	2.0	83	66	90		492			91.5' Bit sheared off core barrel	
							91		491				
							92		490			Bottom of boring @ 91.5'. Water level @ 15.0' one hour after drilling completion. Monitoring well installed on 06/06/07.	
							93		489				
							94		488				
							95		487				
							96		486				
							97		485				
							98		484				
							99		483				
							100		482				
							101		481				
							102		480				
							103		479				
							104		478				
							105						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6343.9'	GROUND ELEVATION (DATUM) E 5203.6'	TOTAL DEPTH 22.0 (feet)
SURFACE CONDITIONS Grassy area next to parking lot		COORDINATE SYSTEM Plant	DATE START 05/19/07	DATE FINISHED 05/23/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	1	1	3	4	0.2	0 - 5.3		582 - 577		Silty GRAVEL with Sand (GM) - About 65% coarse, angular, hard gravel, w/max size 3"; about 20% fine to coarse, angular, hard sand; about 15% fines; yellowish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							5.3 - 10.3		577 - 572		Lean CLAY (CL) - About 86% LL=34, PL=16, no dilatancy fines; about 14% fine to coarse, angular sand; brown; soft; moist; strong reaction w/HCl; (Fill).	Refusal to vacuum excavation @ 5.0'. Below 5.0', continued w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.	
TW	2	-	-	-	-	2.0	10.3 - 14.3		572 - 568		Fat CLAY (CH) - About 95% high plasticity, medium toughness, no dilatancy, high dry strength fines;	PP = 1.0 TSF TV = 0.6 TSF	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-386S

SHEET 2 OF 2

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan			COORDINATES N 6343.9'		GROUND ELEVATION (DATUM) E 5203.6'		TOTAL DEPTH 22.0 (feet)					
SURFACE CONDITIONS Grassy area next to parking lot				COORDINATE SYSTEM Plant		DATE START 05/19/07	DATE FINISHED 05/23/07					
SAMPLING				LOGGED BY <i>J.D. Grainger/Deeken</i>		CHECKED BY <i>EM Dogbey/Meyer</i>		APPROVED BY <i>EM Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SPT	3	WOH	2	2	4	1.5	15		567		about 5% fine to coarse, subangular sand; gray; moist; weak reaction w/HCl.	PP = 2.0 TSF
							16		566			
							17		565			
							18		564			
							19		563		Lean CLAY (CL) - About 85% low plasticity, high toughness, no dilatancy fines; about 15% fine to coarse, subangular sand; dark yellowish brown; hard; moist; strong reaction w/HCl.	
SPT	4	3	8	9	17	1.5	20		562			
							21		561			
							22		560			Bottom of boring @ 22.0'. Water level @ 15.2' @ completion of drilling. Monitoring well installed on 05/23/07.
							23		559			
							24		558			
							25		557			
							26		556			
							27		555			
							28		554			
							29		553			
							30					

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1'	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
S	1		5.0			3.8	0		579		<p><b>BOULDERS</b> - About 50% angular, elongated, very hard boulders; about 25% angular, elongated, very hard cobbles; about 20% fine to coarse subrounded, elongated, hard sand; about 5% fines; pinkish gray; loose; strong reaction w/HCl; homogeneous; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p>
							1	578				
							2	577				
							3	576				
							4	575				
							5	574				
							6	573				
							7	572				
							8	571				
							9	570				
							10	569			<p>Refusal to vacuum excavation @ 5.0'. Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p>	
							11	568				
S	2		10.0			4.6	12	567	<p><b>ORGANIC Soil (OL) s</b> - About 100% low plasticity, low toughness, slow dilatancy, low dry strength fines; dark gray; soft; wet; no reaction w/HCl; w/ peat</p>			
							13	566	<p><b>Lean CLAY (CL)</b> - About 95% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fine rounded sand; medium dark gray; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).</p>			
							14	565				

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PP = 0.75 TSF @ 14.5'



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1'	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
S	3		15.0			5.0	15		564				
							16		563			grades very soft @ 16.0'	
							17		562			Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% fine; rounded; hard sand; light olive gray & dark yellowish brown; firm; moist; strong reaction w/HCl; laminated; (Glacial Till).	
							18		561			fine sand layer 18.0' - 18.2'	
							19		560			grades dark yellowish brown @ 18.2'	
			20.0				20		559			Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, slow dilatancy, very high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 10% fine to coarse, rounded to angular hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
S	4					5	21		558				
							22		557			dark gray & dark yellowish brown, laminated @ 22.0-23.0'	
							23		556				
							24		555				
			25.0				25		554				
							26		553			grades w/ gravel lenses & cobbles; angular	
							27		552				
							28		551				
							29		550				
S	5					5	30						Below 26' to 30.7' description based on photo review

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1'	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

LOGGED BY <i>Granger/Deeken</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
			30.7					30		549				
PQ	1	2.3	2.3	0.0	100	0		31		548		DOLOMITE; medium light gray; blocky; very fine grained; slightly weathered; strong; moderately hard; thin bedded; slightly pitted; (Bass Islands Group). 90°, J, N, No, No, PI, SR @ 30.2'-33.8' 60°, J, MW, No, No, PI, R @ 31.0'	Set nominal 6" temporary steel casing to 30.0'. Below 30.7' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.7'. About 10% drill water return @ 33'. About 90% return thereafter.	
			33.0					32		547				
PQ	2	5.0	5.0	2.0	100	40		33		546		5°, J, N, CI, Sp, PI, SR @ 33.2', 33.8'		
								34		545				
								35		544		90°, J, N, No, No, PI, SR @ 35.3-36.0' 5°, J, N, CI, Sp, PI, SR @ 35.4', 36.1'		
								36		543				
								37		542		5°, J, N, CI, Sp, PI, SR @ 37.2' grades thick bedded @ 37.5'		
			38.0					38		541		90°, J, N, No, No, PI, SR @ 39.4-40.0', 40.2-42.5'		
								39		540		5°, J, N, CI, Sp, PI, SR @ 38.5' grades light brown @ 38.5' 5°, J, N, CI, Sp, PI, SR @ 38.9'		
								40		539		90°, J, N, No, No, PI, SR @ 39.4-40.0'		
PQ	3	5.5	5.2	1.4	95	25		41		538		1" black shale band @ 40.0' 5°, J, N, CI, Sp, PI, SR @ 40.0' 90°, J, N, No, No, PI, SR @ 40.2-42.5'	Core box #2 starts @ 40.7'.	
								42		537		5°, J, N, CI, Sp, PI, SR @ 41.0' 0°, B, N, CI, Pa, PI, SR @ 40.0', 41.0'		
			43.5					43		536		90°, J, N, No, No, PI, SR @ 43.0-44.1' 0°, B, N, CI, Pa, PI, SR @ 43.1', 43.3', 43.6', 43.9', 44.1', 44.3', 44.5'		
								44		535				
								45						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1'	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

SAMPLING		LOGGED BY <i>Geo. for Grainger/Deeken</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	4	5.0	5.0	3.1	100	62	45		534		35°, J, VN, No, No, St, R @ 45.4' 0°, B, N, Cl, Pa, PI, SR @ 45.7', 45.9' 90°, J, N, No, No, PI, SR @ 45.7-45.9'		
							46		533		0°, B, N, Cl, Pa, PI, SR @ 47.4', 47.6'		
							47		532		0°, B, N, Cl, Pa, PI, SR @ 48.7', 49.2'		
							48		531		0°, B, N, Cl, Pa, PI, SR @ 48.7', 49.2'		
							49		530		35°, J, VN, No, No, St, R @ 50.0'		
PQ	5	5.0	5.0	2.8	100	56	50		529		0°, B, N, Cl, Pa, PI, SR @ 51.0', 51.2', 51.3' 35°, J, VN, No, No, St, R @ 51.4', 51.9'	Core box #3 starts @ 50.0'	
							51		528		DOLOMITE; dark gray/brown; vuggy; very fine grained; moderately weathered; moderately hard; medium bedded; w/ calcite inclusions at 53.4'; (Bass Islands Group).		
							52		527		35°, J, VN, No, No, St, R @ 52.1', 52.5' 0°, B, N, Cl, Pa, PI, SR @ 53.0'		
							53		526		2" black shale band @ 53.9'		
							54		525		DOLOMITE; medium light gray; vuggy; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group).		
PQ	6	5.0	5.0	2.5	100	50	55		524		0°, B, MW, Cl, Pa, PI, R @ 55.9', 56.1', 56.4', 56.6', 56.8', 56.9'		
							56		523		highly fractured @ 56.6-57.0'		
							57		522		0°, B, MW, Cl, Pa, PI, R @ 57.1'		
							58		521		0°, B, MW, Cl, Pa, PI, R @ 58.0'		
							59		520		highly fractured w/ black shale & calcite fragments @ 58.7-60.0'		
							60						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1' 579.7 ft (NAVD 88)	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

LOGGED BY <i>Grainder/Deeken</i>		CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD						
PQ	7	5.0	5.0	3.3	100	66	60				DOLOMITE; light gray; very fine grained; slightly weathered; very strong; moderately hard; (Bass Islands Group). vuggy up to 1/4" @ 60.4-60.9' 90°, J, N, No, No, Ir, R @ 60.2-61.5'	Core box #4 starts @ 60.0'.
							61					
							62					
							63				90°, J, N, No, No, Ir, R @ 62.7-62.9' 50°, J, MW, Cl, Sp, Pl, SR @ 63.0', 65.0' 0°, B, N, Cl, Pa, Pl, SR @ 64.4', 64.5', 64.6'	
			63.5				64				highly fractured w/ calcite fragments @ 63.8-64.4'	
							65					
PQ	8	5.0	5.0	0.9	100	18	66				0°, B, N, Cl, Pa, Pl, SR @ 65.2', 65.5', 65.8'	
							67				90°, J, N, No, No, Ir, R @ 66.0-66.9' 50°, J, MW, Cl, Sp, Pl, SR @ 66.1', 66.8' 0°, B, N, Cl, Pa, Pl, SR @ 66.4', 66.5' 1/2" clay band @ 66.5'	
							68				DOLOMITE; oolitic; brown; very fine grained; moderately weathered; strong; moderately hard; (Bass Islands Group). 90°, J, N, No, No, Ir, R @ 67.7-68.5'	
			68.5				69				DOLOMITE; light gray; very fine grained; slightly weathered; strong; moderately hard; thin bedded; brecciated, indurated, & argillaceous @ 68.8-70.5' 50°, J, MW, Cl, Sp, Pl, SR @ 68.1' 0°, B, N, Cl, Pa, Pl, SR @ 68.0', 68.5', 68.7', 69.0', 69.9', 70.4', 70.5', 70.8'	Core box #5 starts @ 69.0'.
							70					
PQ	9	5.0	5.0	2.0	100	40	71				60°, J, N, Cl, Pa, Pl, R @ 69.9'	
							72				90°, J, VN, No, No, Pl @ 72.0-73.0', 72.8'-73.5' 0°, B, N, Cl, Pa, Pl, SR @ 72.1'	
							73				0°, B, N, Cl, Pa, Pl, SR @ 73.1', 73.2'	
			73.5				74				30°, J, N, Cl, Pa, Pl, R @ 73.8' 0°, B, N, Cl, Pa, Pl, SR @ 74.3'	
							75					

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1' 579.7 ft (NAVD 88)	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	10	5.0	4.8	0.9	96	18	75		504		0°,B,N,CI,Pa,PI,SR @ 75.1' highly fractured @ 75.3-76.0'		
							76		503		30°,J,N,CI,Pa,PI,R @ 76.4' 90°,J,N,CI,Pa,PI,R @ 75.1-75.3', 76.0-79.8'		
							77		502		30°,J,N,CI,Pa,PI,R @ 77.5', 77.9' 0°,B,N,CI,Pa,PI,SR @ 77.6'		
			78.5				78		501				
							79		500		0°,B,N,CI,Pa,PI,SR @ 78.8' 0°,B,N,CI,Pa,PI,SR @ 79.3'	Core box #6 starts @ 78.5'	
							80		499		60°,J,N,No,No,PI,R @ 79.8', 79.9', 80.1'		
PQ	11	5.0	5.0	3.7	100	74	81		498		vuggy @ 81.0-83.5' 30°,J,N,CI,Pa,PI,R @ 80.9'		
							82		497		30°,J,N,CI,Pa,PI,R @ 81.9'		
							83		496		30°,J,N,CI,Pa,PI,R @ 82.7'		
			83.5				84		495		grades thick bedded @ 83.5'		
							85		494				
PQ	12	5.0	5.0	4.8	100	96	86		493		30°,J,N,CI,Pa,PI,R @ 86.3'		
							87		492				
							88		491		0°,B,N,CI,Pa,PI,SR @ 88.4'	Core box #7 starts @ 88'	
			88.5				89		490				
							90						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6660.2'	GROUND ELEVATION (DATUM) E 4150.1'	TOTAL DEPTH 103.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/17/07	DATE FINISHED 05/20/07

SAMPLING		LOGGED BY <i>Granger/Deeken</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	13	5.0	5.0	1.5	100	30	90		489	0°,B,N,Cl,Pa,PI,SR @ 90.2' 90°,J,N,Cl,Pa,PI,R @ 90.6-92.3'		
							91		488	3" thick clay band @ 91.2'		
							92		487	0°,B,N,Cl,Pa,PI,SR @ 92.3', 92.8', 93.1' 90°,J,N,Cl,Pa,PI,R @ 92.6-93.5'		
							93		486	highly fractured @ 92.9-93.3' 2" shale band @ 92.9'		
			93.5				94		485	0°,B,N,Cl,Pa,PI,SR @ 93.4'		
PQ	14	3.5	3.3	1.0	94	29	95		484	60°,J,N,Cl,Pa,PI,R @ 94.5'		
							96		483	60°,J,N,Cl,Pa,PI,R @ 95.5'		Core barrel blocked @ 95.0'
							97		482	0°,B,N,Cl,Pa,PI,SR @ 97.4', 97.8' 1" thick clay band @ 97.4'		
PQ	15	1.5	1.5	0.8	100	53	98		481	0°,B,N,Cl,Pa,PI,SR @ 98.4' 60°,J,N,Cl,Pa,PI,R @ 98.5'		
							99		480	1" thick clay band @ 98.5'		Core box #8 starts @ 98.5'
			98.5				100		479	0°,B,N,Cl,Pa,PI,SR @ 98.7', 99.0'		
PQ	16	5.0	5.0	3.2	100	64	101		478	argillaceous @ 101.0-102.1' 0°,B,N,Cl,Pa,PI,SR @ 101.0', 101.2', 101.3'		
							102		477			
							103		476	60°,J,N,Cl,Pa,PI,R @ 103.0'		Bottom of boring @ 103.5'. Water level not recorded. Monitoring well installed on 06/01/07.
							104		475			
							105					

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6665.8'	GROUND ELEVATION (DATUM) E 4148.2'	TOTAL DEPTH 579.3 ft (NAVD 88) 16.2 (feet)
SURFACE CONDITIONS Mild slope, gravel surface, N 6.0' of MW-387D		COORDINATE SYSTEM Plant	DATE START 05/31/07	DATE FINISHED 05/31/07

SAMPLING		LOGGED BY Dagcan	CHECKED BY Dogbey/Meyer	APPROVED BY Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER						
		0		579		Undifferentiated Overburden See log for MW-387D	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
		1		578			
		2		577			
		3		576			
		4		575			
		5		574			
		6		573			
		7		572			Water encountered @ 6.5'
		8		571			
		9		570			
		10		569			
		11		568			
		12		567			
		13		566			
		14		565		Lean CLAY (CL) - About 89% LL=38, PL=14, no dilatancy, high dry strength fines; about 11% sand; dark greenish gray; soft; moist; no reaction w/HCl;	
		15		565			



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-387S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6665.8'	GROUND ELEVATION (DATUM) E 4148.2'	TOTAL DEPTH 16.2 (feet)
SURFACE CONDITIONS Mild slope, gravel surface, N 6.0' of MW-387D		COORDINATE SYSTEM Plant	DATE START 05/31/07	DATE FINISHED 05/31/07

SAMPLING		LOGGED BY Dupcar	CHECKED BY E. J. For Dogbey/Meyer	APPROVED BY E. M. Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	1					1.2	15		564		homogeneous.	TV = 0.85 TSF	
							16		563			Bottom of boring @ 16.2'. Water level @ 7.4' on 06/01/07. Monitoring well installed on 06/01/07.	
							17		562				
							18		561				
							19		560				
							20		559				
							21		558				
							22		557				
							23		556				
							24		555				
							25		554				
							26		553				
							27		552				
							28		551				
							29		550				
							30						




# BLACK & VEATCH

# BORING LOG

BORING NO. MW-388S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8082.4'	GROUND ELEVATION (DATUM) E 2168.8'	TOTAL DEPTH 6.5 (feet)
SURFACE CONDITIONS Grassy, level ground surface along fence		COORDINATE SYSTEM Plant	DATE START 05/30/07	DATE FINISHED 05/30/07
SAMPLING		LOGGED BY Ohlmacher <i>GLO</i>	CHECKED BY Dogbey/Ohlmacher <i>GLO</i>	APPROVED BY Meyer <i>EM</i>

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	3	3	6	0.8	0		574	 <p>Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; strong brown &amp; gray; firm; moist; no reaction w/HCl; homogeneous; (Lacustine Deposit)</p> <p>grades laminated @ 3.5'</p>	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.		
SPT	2	1	2	3	5	0.8	1	573					
							2	572					
SPT	2	1	2	3	5	0.8	3	571					
							4	570					
SPT	3	1	2	3/4	5	1.3	5	569					
							6	568					
							7	567					
							8	566					
							9	565					
							10	564					
							11	563					
							12	562					
							13	561					
							14	560					
							15	560					

Bottom of boring @ 6.5'. Water not encountered. Monitoring well installed on 05/30/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-390S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483	
PROJECT LOCATION Monroe, Michigan		COORDINATES N 7960.1'	GROUND ELEVATION (DATUM) E 4245.7'	578.9 ft (NAVD 88)	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant		DATE START 05/16/07	DATE FINISHED 06/01/07

SAMPLING			LOGGED BY <i>G. Duncan</i>		CHECKED BY <i>Em to Dogbey/Meyer</i>		APPROVED BY <i>Em Meyer</i>	
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							0				Gravelly COBBLES with Sand - About 50% angular, rounded to flat & elongate, very hard cobbles w/max. size 10"; about 30% fine to coarse, angular, elongate to rounded, hard gravel; about 15% fine to coarse, angular, hard sand; about 5% fines; pinkish gray; medium dense to dense, strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1		578			
							2		577			Water encountered @ 6.0' during vacuum excavation. Vacuum excavation stopped @ 7.0'. Boring collapsed to 5.7'. Water sample collected.
							3		576			
							4		575			
							5		574			
			5.7				6		573			Below 5.7' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. S1A recovery estimated from unlabeled photo; Identified by G. Duncan who logged below 5.7'.
							7		572			
							8		571			
S	1A						9		570		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; gray; soft; moist; no reaction w/HCl; homogeneous	
							10		569			
							11		568			
S	1		11.0				12		567		Lean CLAY with Sand (CL) - About 80% medium to low plasticity, medium toughness, no dilatancy, medium dry strength fines; about 20% fine to coarse, subangular to subrounded, hard sand; reddish brown w/trace of gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
S	2		12.0				13		566			
S	3		13.0				14		565			
							15		564			

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-390S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 7960.1'	GROUND ELEVATION (DATUM) E 4245.7'	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Graveled area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 06/01/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
TW	4	15.7		563			TV = 1.6 TSF TW refusal @ 16.5'
				562			Bottom of boring @ 16.5'
				561			Monitoring well installed on 06/01/07. Water level @ 6.2' after completion of monitoring well.
				560			
				559			
				558			
				557			
				556			
				555			
				554			
				553			
				552			
				551			
				550			
				549			



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY <i>EM</i> Grainger/Duncan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	1		3.0			0.0	0				<p><b>BOULDERS</b> - About 50% angular, elongated, very hard boulders; about 20% angular, rounded to elongated, very hard cobbles; about 20% angular, rounded to elongated, hard gravel; about 10% fine to coarse, angular, hard sand; pinkish gray; strong reaction w/HCl; homogeneous; (Fill).</p> <p>Refusal to vacuum excavation @ 3.0'. Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p>	
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					
							11					
							12					
							13					
							14					
							15					

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY <i>GA</i> Grainger/Duncan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
S	4	15.0				5.0	15		563		grades boulders & glacial till mixture @ 15.0'	
S	5	20.0				5.0	20		558		Sandy Lean CLAY (CL) - About 70% fines; about 20% fine to coarse, rounded, hard sand; about 10% fine, rounded, hard gravel; yellowish brown; hard to very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP > 4.5 TSF @ 17.0-17.5'
S	6	25.0				4.7	25		554		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 20% fine to coarse, angular to subrounded, hard sand; about 10% angular, rounded, hard gravel; dark gray; hard; moist; strong reaction w/ HCl; homogeneous; (Glacial Till).	PP > 4.5 TSF @ 23.0-24.0'
							28		551		DOLOMITE; gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2' 578.7 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

LOGGED BY <i>GA</i> Grainger/Duncan		CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	RQD							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RQD							
PQ	1	0.9	30.1	0.9	0.5	100	56	30		548		DOLOMITE; gray; blocky; micritic; fresh; extremely strong; hard; w/shale, shale veins & partings; tight & irregular joints; (Bass Islands Group).  grades w/o shale veins; horizontal shale striations @ 31.9' shale parting; weathered - 0-10°, B,MW,Fi,PI,SR @ 31.6'  shale parting - 0°, B,MW,Fi,PI,SR @ 33.5' 0°, J,MW,Ci,Fi,PI,SR @ 33.9' shale parting - 10° B,MW,Fi,PI,SR @ 34.5' 15°, J,MW,Ci,Pa,Ir,R @ 35.4'  grades very strong; very hard; massive; w/trace pits @ 35.4'  shale parting - B,MW,Fi,PI,R @ 36.8',37.4'	Set nominal 6" temporary steel casing to 30.0'. Below 30.1' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 30.1'. Water level @ 5.4' @ start of drilling on 05/21/07.	
			31.0					31		547				
PQ	2	5.0	4.7	4.2	94	84		32		546				
			36.0					33		545				
								34		544				
								35		543				
PQ	3	5.0	5.0	5.0	100	100		36		542				
								37		541				
								38		540				
								39		539				
								40		538				
								41		537				
								42		536				
PQ	4	5.0	5.0	5.0	100	100		43		535				
								44		534				
								45		534				
													grades extremely strong; w/trace pits & vugs partially filled w/calcite @ 41.4' 15°, J,T,No,No,Ir,R @ 41.9'  0°, J,T,No,No,Ir,R @ 44.9'	Core box #2 starts @ 41.9'.

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY <i>EM</i> Grainger/Duncan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	5	5.0	5.0	4.6	100	92	45		533				
			46.0				46		532				
							47		531			clay mixed w/rock fragments (highly weathered) @ 47.2-47.5'	
							48		530			shale band; moderately weathered; partially cemented w/calcite @ 48.1-48.2'	
							49		529			0-60°, numerous, J, VN - MW, UK, Ir, R @ 49.0'	
							50		528			0°, B, MW - W, Cl & shale infill, Su, Pa, SR @ 49.6' (completely weathered)	Core box #3 starts @ 49.4'
							51		527			0°, J, N - MW, quartz & Cl, Su, Ir, R @ 50.5' (moderately to completely weathered)	
			51.0				52		526				
PQ	6	5.0	5.0	2.6	100	52	53		525			0°, J, MW, UK, No, SR @ 52.5' (moderately weathered) highly fractured; gravel size; w/o infilling @ 52.5-52.8'	
							54		524			0°, J, N, UK, No, Pl, SR @ 52.9'	
							55		523			SHALE; black; highly weathered; very weak; friable; thin bedded; (Bass Islands Group). highly fractured; gravel size; w/o infilling @ 53.0-53.2'	
							56		522			DOLOMITE; light yellowish brown; very fine grained; moderately weathered with zones of complete weathering & fractures; hard; thin bedded; pitty & vuggy; w/close joint spacing; (Bass Islands Group). highly fractured; gravel size; w/o infilling @ 55.0-55.6' grades gray; fresh; very strong; hard; thick bedded; w/o pits & vugs; joints moderately wide @ 55.6'	
			56.0				57		521				
PQ	7	5.0	5.0	4.5	100	90	58		520				
							59		519			highly fractured; surface stained; partial clay & quartz infilling @ 58.8-59.6'	Core box #4 starts @ 58.5'
							60						

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# BORING LOG

BORING NO. MW-391D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2' 578.7 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY <i>AM</i> Grainger Durcan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
PQ	8	5.0	4.4	2.5	88	50	60		518				
			61.0				61		517			45°, J, N, Qz, Sp, Ir, SR @ 61.7'	
							62		516			weathered shale - 0°, B, Fi, Su, PI, SR @ 62.7-63.0'	Core loss possibly due to outwashing @ weathered shale.
							63		515			shale partings (slightly weathered) - 0°, B, VN - N, Qz, Pa & Sp, PI, SR @ 63.2', 63.4', 63.6', 64.0', 64.3', 64.6', 64.8', 64.9', 65.1', 65.2', 65.3'	
							64		514				
							65		513			DOLOMITE; argillaceous; light yellowish brown; very fine grained; moderately weathered; w/zones of complete weathering & fractures; hard; thin bedded; pitted & vuggy; w/close joint spacing; (Bass Islands Group). shale parting - 0°, B, VN, PI, SR @ 66.7'	
			66.0				66		512			60°, J, VN, Qz & Sd, Fi, PI & Ir, SR @ 67.4'	
PQ	9	5.0	5.0	4.4	100	88	67		511			25°, J, N, No, No, Su, PI, SR @ 68.4'	Core box #5 starts @ 69.1'.
							68		510				
							69		509			0°, J, N, No, No, Su, PI, SR @ 69.8', 69.9' fractured; w/clay infilling @ 70.0-70.3'	
							70		508			25°, J, N, No, No, PI, SR @ 70.7' clay & gravel band @ 71.1-71.3'	
			71.0				71		507				Possible outwash of fines @ 71.5' & 73.8'.
							72		506			fractured w/partial clay infill @ 71.5-72.2'	
							73		505			0° & 40°, intersecting, J, N, R & partially fractured @ 72.5'	
PQ	10	5.0	4.7	3.3	94	66	73		504			70°, J, N, No, No, Su, Pa, PI, Ir, SR @ 72.9'	
							74		503			fractured w/partial clay infill; highly weathered @ 73.8-75.0'	
							75		502				

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

LOGGED BY <i>[Signature]</i> Grainger/Duncan		CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	11	5.0	5.0	3.4	100	68	75						
			76.0				76					90° J,N - T,Ca,Pa,PI,WA,Ir,SR - R @ 76.1-77.0', 77.5-79.0', 80.4-81.0'	
							77					0° J,No,No,PI,SR @ 77.0'	
							78					0-10°, several J,N,No,No,Su,PI,SR @ 77.2', 77.4'	
							79					0° J,VN - N,No,No,PI,SR @ 77.4', 77.8', 77.9', 78.2', 78.4'	
							80					clay & gravel band @ 78.7'	Core box #6 starts @ 79.0'
							81					0° J,VN - N,Su,Ir,SR @ 79.8'	
							82					10° J,MW,Ci,Su & Pa,Ir,R @ 80.1'	
							83					clay & gravel band @ 80.5'	
							84					fractured, partial clay infill, residual @ 81.0-81.9'	
							85						
							86					80° J,N,Ci,Su,Ir,SR @ 82.6' (moderately weathered)	
							87					trace pitting; w/partial calcite infilling @ 84.0-86.0'	
							88					B,W,Ci,No,No & Su,PI,SR @ 85.6-85.8' (residual infill possibly washed out)	
							89					DOLOMITE; moderately weathered; w/pits & vugs; (Bass Islands Group).	
							90					0 & 45° J,N,No,No,Ir,R @ 86.7'	
												DOLOMITE; brecciated; broken; partial crystalline infilling; moderately weathered; surface staining; (Bass Islands Group).	
												DOLOMITE; argillaceous; light yellowish brown; very fine grained; moderately weathered; w/zones of complete weathering & fractures; hard; thin bedded; pitty & vuggy; w/close joint spacing; (Bass Islands Group).	Core box #7 starts @ 89.0'

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8240.3'	GROUND ELEVATION (DATUM) E 5237.2'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, gravel surface SE of Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY <i>Grainiger/Duncan</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							90					30°, J, N, Ca, Pa, Ir, R @ 88.5' 10°, J, N, Ca, Pa, PI, R @ 88.9'		
			91.0				91					SHALE; highly to completely weathered; fractured (partial clay infill); thin bedded; (Salina Group - Unit F). DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; weak reaction w/HCl; (Salina Group - Unit F). 0-10°, J, N, No, No, PI, SR @ 91.5', 92.0', 92.2', 94.0', 94.1', 94.5'		
PQ	14	5.0	5.0	3.4	100	68	94					fractured w/partial clay infill; staining @ 93.6'		
			96.0				96					DOLOMITE; pale brown; micritic; fresh; extremely strong; very hard; (Salina Group - Unit F) 90°, J, N, No, No, PI, SR @ 95.7-96.5'		
							97					DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; (Salina Group - Unit F). 0 & 90°, numerous, J, N, crystalline infill, Pa, Ir @ 96.5-97.6'	Possible outwash of fines @ 97.0' & 98.7'.	
PQ	15	5.0	4.0	1.6	80	32	98					highly fractured band @ 97' 0°, J, N, Cl, Su, PI, SR @ 97.6-98.0' (numerous)		
							99					SHALE; dark gray; fine to coarse grained; completely weathered to residual; friable & soft; w/gravel size fragments; (Salina Group - Unit F).	Core box #8 starts @ 98.8'.	
							101							
							102							
							103							
							104							
							105							Bottom of boring @ 101.0'. Water level @ 10.5' @ completion of drilling. Monitoring well installed on 06/02/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8242.9'	GROUND ELEVATION (DATUM) E 5232.9'	TOTAL DEPTH 19.0 (feet)
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/30/07	DATE FINISHED 05/30/07

SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0					Undifferentiated Overburden (See log MW-391D)	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							1						
							2						
							3						
							4						
							5						
							6						
							7						
							8						
							9						
							10						
							11						
							12						
							13						
							14						
							15						



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-391S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8242.9'	GROUND ELEVATION (DATUM) E 5232.9'	TOTAL DEPTH 19.0 (feet)
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/30/07	DATE FINISHED 05/30/07
SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>sm</i>	APPROVED BY Meyer <i>sm</i>

SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
S	1					2.0	15		563		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy, very high dry strength fines; about 20% fine to coarse, rounded, hard sand; about 10% fine, rounded, hard gravel; yellowish brown; very hard; strong reaction w/HCl; homogeneous; (Glacial Till).	TV = 2.1 TSF @ 19.0'. Refusal to TW @ 19.0'.
TW	2					0.8	16		562			
							17		561			
							18		560			
							19		559			Bottom of boring @ 19.0'. Water level not recorded. Monitoring well installed on 05/30/07.
							20		558			
							21		557			
							22		556			
							23		555			
							24		554			
							25		553			
							26		552			
							27		551			
							28		550			
							29		549			
							30					



**BLACK & VEATCH**

**BORING LOG**

BORING NO. MW-391Sa

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8242.9'	GROUND ELEVATION (DATUM) E 5232.9'	TOTAL DEPTH 6.0 (feet)
SURFACE CONDITIONS Level, gravel base, SE of S Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/22/07	DATE FINISHED 05/22/07

SAMPLING		LOGGED BY Duncan <i>[Signature]</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	RQD						
SPT	1	12	17	8	25	0.8			578		Poorly graded <u>GRAVEL</u> with Sand (GP) - About 90% fine to coarse, subangular to angular hard gravel; about 10% fine sand; very dark gray; medium dense; dry to moist; weak reaction w/HCl; w/trace of organics; (Fill). Undifferentiated Overburden (See Log for MW-391D)	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/tricone center plug. SPT performed w/BK-81 automatic hammer.  Very hard drilling. Had to shift rig to maintain vertical auger alignment.	
SPT	2	6	7	7	14	0.6		577					
SPT	3	6	14	21	35	0.5		576					
SPT	4	11	24	66	90	0.7		575					
								574					
								573					
								572			Refusal to augers @ 6.0'. Bottom of boring @ 6.0'. Water not encountered. Boring discontinued due to inability to drill vertically through boulders and damage to drilling tools.		
								571					
								570					
								569					
								568					
								567					
								566					
								565					
								564					
								563					



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 1 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit. near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>Granger/Durican</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	13	12	25	0.6	0		576		Poorly graded GRAVEL with Silt and Sand (GP-GM) - About 70% fine to coarse, angular, hard gravel w/ max. size 1 1/2"; about 20% coarse, angular sand; about 10% fines; pinkish gray; dense; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/4 1/2" ID, 8" OD hollow stem augers w/tricone center bit. SPT performed w/BK81 automatic hammer.	
SPT	2	4	5	5	10	0.7	2		575		Lean CLAY (CL) - About 85% medium plasticity, medium toughness, no dilatancy, medium dry strength fines; about 10% fine to medium, angular to subrounded sand; about 5% organic material; very dark gray; hard; moist; no reaction w/HCl; (Topsoil).		
TW	3						4		574		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, medium to high dry strength fines; about 10% fine to coarse, angular to subrounded, hard sand; grayish brown; hard; dry to moist; strong reaction w/HCl; homogeneous; (Glacial Till).		
							5		573				
							6		572		grades w/fine gravel, 1/2" max. size; & iron-stained fractures w/grayish rock @ 5.0'	PP>4.5 TSF @ 4.0'	
SPT	4	8	13	17	30	1.3	7		571				
TW	5						8		570			Refusal to thin-walled sampler @ 7.1'	
TW	6						9		569			Refusal to thin-walled sampler @ 8.5'	
							10		568			PP>4.5 TSF @ 8.5'	
SPT	7	8	14	18	32	1.5	11		567		grades very hard		
							12		566				
SPT	8	9	31	22	53	0.9	13		565		Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy, very high dry strength fines; about 5% fine to coarse angular to subrounded hard gravel, max. size 1"; about 5% fine to coarse, rounded, hard sand; dark gray; very hard; dry; strong reaction w/HCl; w/trace iron streaks; homogeneous	Water encountered @ 10.7' during drilling.	
							14		564		Poorly graded GRAVEL with Sand (GP) - About 50% fine to coarse, flat & elongated, angular to subangular, hard gravel w/max. size 1"; about 45% angular to subrounded, hard sand; about 5% fines; grayish brown; very dense; strong reaction w/HCl; homogeneous	Water level rose to 3.2' when gravel encountered.	
							15		563		grades medium dense @ 11.5'		
							16		562		DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/trace pitting; (Bass Islands Group).	Below 14.0', continued w/triple tube wire	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 2 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>Co Co</i> Grainger/Duncan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	1	2.0	1.7	1.7	85	85	15		561	[Pattern]	90°, J, T, Qz, Fi, WA, Ir, cemented @ 14.0-15.1' 70°, J, N, No, No, Ir, R @ 14.5' grades dark gray; micritic @ 15.5' parting @ 15.5'	line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 14.0'.
			16.0				16		560	[Pattern]	0°, J, N, No, Su, PI & Ir, SR @ 16.2'  vuggy, partially filled w/quartz @ 16.8-17.3'  grades light brownish gray @ 17.3'	
							17		559	[Pattern]	0°, J, N, No, Su, PI, SR @ 17.3'	
PQ	2	5.0	5.0	4.8	100	96	18		558	[Pattern]	0°, J, N, No, No, PI & Ir, R @ 18.9', 19.0'	
							19		557	[Pattern]		
							20		556	[Pattern]	0° & 60°, J, N, No, No, Su, PI & Ir, R @ 20.5'	
			21.0				21		555	[Pattern]	grades w/trace vugs w/no infill @ 21.0' 0°, J, N, No, Su, PI, SR @ 21.0'	
							22		554	[Pattern]		
PQ	3	5.0	4.5	3.7	90	74	23		553	[Pattern]	0° & 90°, J, N, No, Su, Ir, R, vuggy w/no infill @ 23.0'-23.6' grades w/vugs & veins partially filled w/quartz @ 23.3'	@ 23' lost pressure while coring for 6". Core box #2 starts @ 23.0'.
							24		552	[Pattern]		
							25		551	[Pattern]	3" thin bed of angular & subangular broken fragments of gravel sized rock @ 24.7' grades w/color striations of gray & dark gray @ 24.9' 0°, 60° & 90°, J, N, Cl & Sd, Su, Pa, PI & Ir, R @ 25.1-25.6'	
			26.0				26		550	[Pattern]	grades w/no vugs & veins @ 26.0' 0°-30°, numerous, J, N, Cl & Sd, Su, Pa, PI, Ir, R @ 26.0-26.4'	50 gallons of drilling water lost @ 26.0'.
							27		549	[Pattern]		
PQ	4	5.0	5.0	3.7	100	74	28		548	[Pattern]	60°, J, T, No, No, Ir, VR @ 28.5'	
							29		547	[Pattern]		
							30		547	[Pattern]	0°-90°, numerous, J, F, V to MW, Cl & Sd, Su, Pa, Ir, R @ 29.4'-31.5'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 3 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING				LOGGED BY <i>[Signature]</i> Grainger/Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	5	3.6	2.8	2.2	78	61	30						
			31.0				31						Core box #3 starts @ 31.0'
							31.5						3/4" band, dark gray & black; highly weathered @ 31.5'
							31.6						0°-90°, numerous, J, N, Cl, Sd & Qz, Su & Pa, R w/trace of crystalline infilled veins @ 31.6-33.4'
PQ	6	1.4	0.6	0.0	42	0	33						
			34.6				33.4						Outwashing of infill possibly occurring between 33.4'-36.7'. Infill, if present, unknown due to outwashing. Cavity estimated using televiwer log.
							33.6						possible 0.6' cavity @ 33.0-33.6'
PQ	7	5.0	4.8	3.7	96	74	35						
			36.0				36.7						DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/fractures, slight discoloration; trace vugs w/no infill; (Bass Islands Group).
							36.7						65°, J, VN, Ca, Pa, Ir, R @ 36.7-37.2'
							37						0°, several, J, VN, Ca, Pa, Ir, R @ 37.2'
							37.2						70°, J, N, Ca, Pa, Ir, R @ 37.8-38.4'
							37.8						0°, several, J, N, Ca, Pa, Ir, R @ 38.4'
							38.4						0°, J, Ca, Pa, Pl & Ir, R @ ~38.4'
							38.4						0°, J, N, No, No, Pl, SR @ 39.0'
							39.0						
							41.0						0°, J, VN, Cl, Su, Pl, SR @ 41.2', 41.6', 41.8'
							41.2						
							41.6						
							41.8						
							42.2						60°, J, VN, No, No, Ir, R @ 42.2'
							42.2						Core box #4 starts @ 42.2'
PQ	8	5.0	5.0	4.8	100	96	42						
							42						
							43						
							43						
							44						
							44						
							45						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 4 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>EM</i> Grainger/Duncan	CHECKED BY <i>EM</i> Meyer	APPROVED BY <i>EM</i> Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			46.0				45		531				
PQ	9	5.0	4.7	2.5	94	50	46		530		SHALE; residual		46.0
							47		529				47.0
							48		528		DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/fractures; slight discoloration; trace vugs w/no infill; (Bass Islands Group) fractured @ 47.0-47.7' 30°, J,Su,Ir,R @ 47.7' 0°-90° numerous, J,N-MW,Qz&Cl,Fi,Su,Ir,S @ 47.8-50.4'		
							49		527				
							50		526		interbeds of dolomite & shale; moderately weathered @ 50.0-50.7' grades gray to dark gray striations @ 50.7'		
			51.0				51		525				Core box #5 starts @ 51.0'
							52		524		0°-90° numerous, J,N,No,Su,Ir,R @ 52.5-54.7'		
PQ	10	5.0	4.7	4.3	94	86	53		523				
							54		522		shale parting @ 54.2' grades gray @ 54.7'		
							55		521				
							56		520		residual @ 56.0-56.3'		Soft drilling @ 56.0'
			56.0				57		519		45°, J,N,No,Su,Ir,SR @ 57.0-57.5'		
							58		518		0°, J,N,No,Su,PI,SR @ 58.4' 90°, J,N,No,Su,Ir,SR @ 58.4-58.7' 30°, J,N,No,Su,Ir,SR @ 58.6' grades gray to dark gray striations @ 59.0'		
PQ	11	5.0	4.7	4.3	94	86	59		517				
							60						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 5 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

LOGGED BY <i>Grainder/Dunder</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							60					moderately weathered partings @ 60.5'	
			61.0				61					grades moderately strong to strong @ 61.5'	Core box #6 starts @ 61.0'
							62					45°, several, J, VN, No, Su, Ir, SR @ 61.5-62.6'	
							63					slightly weathered parting @ 62.6'	
PQ	12	5.0	5.0	4.3	100	86	63					0°, J, VN, No, No, PI, SR @ 63.4', 64.0', 65.0'	
							64						
							65						
							66					grades highly weathered; moderately strong @ 65.5'	
			66.0				66					grades slightly weathered; very strong @ 66.5'	
							67					70°, J, VN, No, No, Ir, SR @ 66.5'	
							68					30°, J, T, No, No, Ir, SR @ 68.0', 69.5'	
PQ	13	5.0	5.0	4.5	100	90	68						
							69						
							70					grades fresh; gray; extremely strong; hard @ 70.1'	
							71					grades slightly weathered @ 71.0'	Core box #7 starts @ 71.0'
			71.0				71					90°, J, N, Qz, Cl&Sd, Su, Fi, Ir, R @ 71.0-76.8'	
							72						
							73						
PQ	14	5.0	4.2	2.7	84	54	73						
							74						
							75						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 6 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

LOGGED BY <i>RCG for Grainger/Duncan</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			76.0					75		501			
PQ	15	5.0	5.0	4.6	100	92		76		500		0°, J,N,Qz,Cl&Sd,Su,Fi,Ir,R @ 76.5', 76.8'	
								77		499		5" thick highly weathered bed @ 77.6'	
								78		498			
								79		497		2" highly weathered band @ 79.4'	
			81.0					80		496			
								81		495		20°,J,N,No,No,PI,SR @ 81.5'	Core box #8 starts @ 81.0'
								82		494		0°,J,N,No,No,PI,SR @ 82.0'	
								83		493		45°,J,N,No,No,Ir,SR @ 82.5'	
PQ	16	5.0	5.0	3.2	100	64		84		492		0°,J,MW,Qz,Cl&Sd,Fi,PI&Ir,SR @ 83.7', 85.2', 86.0'	
								85		491		90°, J,MW,Qz,Cl&Sd,Fi,Ir,SR @ 83.7-86.0'	
			86.0					86		490			
								87		489		moderately weathered, gravel to cobble size broken rock fragments @ 86.8-87.4'	
								88		488		1" moderately weathered band @ 88.1'	
PQ	17	5.0	4.6	2.6	92	52		89		487		2½" highly weathered band @ 88.5'	
								90		487		<1/4" highly weathered partings @ 89.5-90.6'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 7 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>GC for [Signature]</i> Grainger/Duncan	CHECKED BY <i>Em</i> Meyer	APPROVED BY <i>Em</i> Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	18	5.0	3.8	2.0	76	40	90						
			91.0				91					numerous <2 1/2" highly weathered bands @ 91.2-95.0'	Core box #9 starts @ 91.0'.
							92						
							93						
							94						
							95					highly weathered & fractured; w/residual infill; coarse gravel to cobble size @ 95.0-96.0'	
							96					0°-90°, numerous, J, MW, No, Su, PI & Ir, SR @ 96.0-101.0'	Water level @ 2.8' prior to drilling on 05/09/07.
			96.0				97						
							98						
PQ	19	5.0	4.5	2.5	90	50	99						
							100						
							101						
			101.0				102					fractured; fine to coarse gravel size @ 101.8-102.0'	Core box #10 starts @ 101.0'. Possible washout @ 101.0-101.5'. Possible residual & coarse sand washout @ 101.8'.
							103					<1/4" moderately weathered parting @ 102.8' & 103.5'	
PQ	20	5.0	3.9	2.9	78	58	104					grades vuggy	
							105						



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 8 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>Granger/Dunbar</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	21	5.0	2.0	1.3	40	26	105.0 - 106.0		471 - 470		fine to coarse gravel size rock fragments w/residual infill @ 105.5-106.0' grades w/interbeds of weak & highly weathered fractured rock @ 106.0'	Material washed out during drilling of run #21.	
PQ	22	5.0	3.5	1.8	70	36	109.0 - 111.0		468 - 463		DOLOMITE; gray; micritic to very fine grained; vuggy; slightly weathered; w/interbeds of weak & highly weathered fractured rock; slightly weathered portion is extremely strong; hard; w/fractures; (Salina Group - Unit F).  grades light olive brown w/gray foliation; micritic; very hard; w/trace pits partially infill w/quartz; interbeds of highly weathered fractured rock grade out @ 113.0' 40°, J, N, No, No, Pl, SR @ 113.0', 113.5', 113.7', 114.5', 114.7' bedding & striations dip 40°; fractures perpendicular to bedding @ 113.2' to 115.0'	Soft drilling @ 109.0-111.0'	
PQ	23	5.0	5.0	3.0	100	60	116.0 - 118.2		466 - 458		residual to highly weathered band; very dark gray @ 117.2'-117.4'  DOLOMITE; fresh; extremely strong; hard; w/trace vugs; (Salina Group - Unit F).	Core box #11 starts @ 116.0'	
							118.2 - 118.8		458 - 457		DOLOMITE; light olive brown w/gray foliation; micritic; extremely strong; very hard; w/fractures & trace pits partially filled w/quartz; (Salina Group - Unit F).		

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
PQ	24	5.0	3.8	1.8	76	36	120	20° J,N,No,Su,Ir,R @ 119.0'					
							121	BRECCIA; light yellowish brown & dark gray; weakly/partially healed; micritic to very coarse grained; moderate to completely weathered; weak to very strong; friable to hard; extremely fractured; angular clasts, strong reaction w/HCl; (Salina Group - Unit F). thin bed; fresh; extremely strong; hard; w/trace vugs @ 120.0-120.5'					
							122						
							123						
							124						
							125	DOLOMITE; grayish brown; micritic to very fine grained; extremely strong; hard; highly fractured; w/ angular fragments; trace pits; (Salina Group - Unit F).					
							126		Core box #12 starts @ 126.0'				
							127						
PQ	25	5.0	3.7	2.2	74	44	128	BRECCIA; (Salina Group - Unit F).					
							129						
							130	DOLOMITE; light brown; fresh; extremely strong; hard; highly fractured; trace pits (Salina Group - Unit F).					
							131	CLAYSTONE; dark gray; very fine grained; fresh; very strong; hard; no reaction w/HCl; fractured into irregular conical fragments; (Salina Group - Unit F).					
							132						
							133	BRECCIA; gray; broken; very fine to very coarse grained; fresh; moderately strong; low hardness; strong reaction w/HCl; sand & gravel size clasts; (Salina Group - Unit F).	Core loss due to washout leaving clayey sand & gravel size breccia fragments @ 132.3'				
PQ	26	5.0	1.8	1.4	36	28	134						
							135						

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-393D

SHEET 10 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level; at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

SAMPLING		LOGGED BY <i>Granger/Dugan</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	27	5.0	4.4	4.2	88	84	135		441			
			136.0				136		440			
							137		439			
							138		438			
							139		437			
							140		436			
			141.0				141		435			Core box #13 starts @ 141.0'.
							142		434		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; trace pits & vugs; irregular vertical & horizontal fractures; slightly weathered; (Salina Group - Unit F).	
PQ	28	5.0	3.1	2.1	62	42	143		433		CLAYSTONE; dark gray; very fine grained; (Salina Group - Unit F).	
							144		432			
							145		431			
			146.0				146		430			
							147		429			
PQ	29	4.0	3.2	3.2	80	80	148		428			
							149		427			
							150		427			

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**BORING LOG**

BORING NO. MW-393D

SHEET 11 OF 11

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9367.4'	GROUND ELEVATION (DATUM) E 2922.8'	TOTAL DEPTH 150.0 (feet)
SURFACE CONDITIONS Level: at intersection Doxy & N. Bullit, near road edge		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/10/07

LOGGED BY <i>Grainier/D... [Signature]</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	RQD						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RQD						
								150		426			Bottom of boring @ 150.0'. Water level not recorded. Monitoring well installed on 06/06/07.
								151		425			
								152		424			
								153		423			
								154		422			
								155		421			
								156		420			
								157		419			
								158		418			
								159		417			
								160		416			
								161		415			
								162		414			
								163		413			
								164		412			
								165					



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**BORING LOG**

BORING NO. MW-393S

SHEET 1 OF 1

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan				COORDINATES N 9360.0'				GROUND ELEVATION (DATUM) E 2918.2' 576.5 ft (NAVD 88)				TOTAL DEPTH 9.8 (feet)
SURFACE CONDITIONS Slight slope				COORDINATE SYSTEM				DATE START 05/06/07		DATE FINISHED 05/06/07		
SAMPLING				LOGGED BY Duncan <i>[Signature]</i>				CHECKED BY Meyer <i>[Signature]</i>		APPROVED BY Meyer <i>[Signature]</i>		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0				Undifferentiated Overburden (See Log for MW-393D)	Boring advanced w/4¼" ID, 8" OD hollow stem augers w/center plug.
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					
							11					
							12					
							13					
							14					
							15					
												Bottom of boring @ 9.8'. Water not encountered. Monitoring well installed on 05/06/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-395D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

LOGGED BY <i>Geo</i> Grainger/Duncan		CHECKED BY <i>EM</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD							
								0		577		Gravelly <u>COBBLES</u> - About 50% angular, rounded to flat & elongated, very hard cobbles w/max. size 10"; about 30% fine to coarse, angular, elongated to rounded, hard gravel; about 10% fine to coarse angular, hard sand; about 10% fines; pinkish gray; medium dense to dense; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1	576					
							2	575					
							3	574					
							4	573					
							5	572					
							6	571					
							7	570					
							8	569					
							9	568		Fat <u>CLAY</u> (CH) - About 100% high plasticity, low toughness, no dilatancy fines; dark gray & olive brown; soft; moist; no odor; no reaction w/HCl; laminated color dark gray & olive brown  grades slow dilatancy; moist to wet @ 10.5'	SPT performed w/BK-81 automatic hammer.		
SPT	1	2	1	2	3	0.6	10	567					
SPT	2	1	1	1	3	0.9	11	566					
							12	565		Lean <u>CLAY</u> with Sand (CL) - About 85% low plasticity, medium toughness, slow dilatancy fines; about 15% fine to coarse, rounded & subrounded sand; olive brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	TV = 2.0 TSF		
TW	3					1.5	13	564					
SPT	4	5	8	11	19	NR	14	563					
							15	563					

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# BORING LOG

BORING NO. MW-395D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

LOGGED BY <i>Grainger/Duncan</i>		CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
TW	5						0.5	15		562		grades w/occasional fine gravel @ 15.5'	
SPT	6	26	15	21	36		1.3	16		561		grades w/about 15-25% sand & gravel; dark grayish brown; very hard	TW sampler refusal @ 16.0'. TV = 2.25 TSF
TW	7						0.1	17		560			
SPT	8	14	20	23	43		1.3	18		559			
SPT	9	6	50/4"				0.6	19		558		Lean CLAY with Sand (CL) - About 85% low plasticity, medium toughness, slow dilatancy, medium to high dry strength fines; about 15-25% very fine sand to fine gravel; very dark gray; very hard; dry to moist; strong reaction w/HCl; homogeneous	TW sampler refusal @ 18.5'.
PQ	1	0.5	20.5	0.5	100		100	20		557		DOLOMITE; gray; blocky; micritic; fresh; extremely strong; hard; irregular, tight veins filled w/shale; (Bass Islands Group). grades massive @ 21.0'	SPT refusal @ 20.5'. Below 20.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 20.5'.
			21.0					21		556			
PQ	2	5.0	5.0	5.0	100		100	22		555			
								23		554			
								24		553			
								25		552			
			26.0					26		551		grades trace of pitting @ 26.0'	
								27		550			
PQ	3	5.0	5.0	5.0	100		100	28		549			
								29		548			
								30		548		0°,J,N,No,Su,Ir,SR @ 29.5'	

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# BORING LOG

BORING NO. MW-395D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							30		547		fractured band; partial clay infill @ 30.0-30.2'	Core box #2 starts @ 30.0'	
			31.0				31		546				
							32		545				
PQ	4	5.0	4.3	2.5	86	50	33		544		0°, J, VN, No, No, Ir @ 32.8'		
							34		543		highly fractured; w/residual fines, sand & gravel; highly to completely weathered @ 33.3-33.8', 34.6-36.3'	Core loss possibly due to fines washout @ 34.6-36.0'	
							35		542		10°, J, N, residual infill, Su, PI, SR @ 34.3'		
			36.0				36		541				
							37		540		highly fractured & weathered; w/thin bed of fractured breccia; interbeds of breccia, dolomite & shale @ 36.7-38.0'		
PQ	5	5.0	5.0	4.0	100	80	38		539		2" band of completely weathered black shale @ 37.9'		
							39		538		15°, J, VN, No, No, Ir, R @ 38.3'		
							40		537		pitty & vuggy @ 39.0-39.7'		
							41		536		15°, J, N, Cl, Su, Ir, R @ 39.3'		
			41.0				42		535		shale parting - 25°, B, Su, Ir, R @ 40.5'	Core box #3 starts @ 41.0'	
							43		534		shale parting - 0°, B, VN, PI, SR @ 42.5'		
PQ	6	5.0	5.0	5.0	100	100	44		533		0°, J, T, No, No, PI, SR @ 43.0'		
							45		533		weathered dolomite & shale partings - 0° & 20°, B, MW, PI & Ir, R @ 44.7-44.9'		

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# BORING LOG

BORING NO. MW-395D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

LOGGED BY <i>Grainger/Duncan</i>		CHECKED BY <i>EM Meyer</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							45		532		0-90°, numerous, J, N, crystalline & Sd, Pa, Ir, SR; & veins filled w/quartz @ 45.2-45.8'		
			46.0				46		531				
							47		530		10°, J, N, No, No, Ir & PI, SR @ 47.0' (2 joints)		
PQ	7	5.0	5.0	5.0	100	100	48		529		1" fractured band; highly weathered @ 47.5' grades w/shale striation prominent @ 47.6'		
							49		528		fractured; highly weathered; no infilling @ 48.7-48.9'		
							50		527		1" highly weathered band @ 49.3' (0°, N, No, Su, PI, SR @ top & bottom of band)		
			51.0				51		526		shale parting - 0°, B, T, Fi, PI, SR @ 51.0', 52.2', 52.4'		
							52		525		1" highly weathered dolomite band, fractured @ 51.4'		
							53		524		grades shale striation less prominent @ 52.4'		
PQ	8	5.0	5.0	3.8	100	76	54		523		0°, numerous, J, N, fines & Sd infill, PI, SR highly weathered @ 52.8-53.5'		
							55		522		0°, J, VN, No, No, PI, SR @ 53.7'		
			56.0				56		521				
							57		520		shale partings, moderately weathered - 0°, B, VN to N, Sd, Su, SR @ 56.3', 56.4', 57.7', 57.8'		
PQ	9	5.0	5.0	4.8	100	96	58		519				
							59		518				
							60						

Core box #4 starts @ 50.1'.

Core box #5 starts @ 59.8'.

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# BORING LOG

BORING NO. MW-395D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

LOGGED BY <i>EM</i> Grainger/Duncan		CHECKED BY <i>EM</i> Dogbey/Meyer	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							60		517				
			61.0				61		516			shale parting - 0°,B,N,PI,SR @ 61.4'	
							62		515			dolomitic band; crystalline, moderately weathered; 0°,J,N,Pa,Su,PI,SR @ 62.1'	
PQ	10	5.0	4.6	4.6	92	92	63		514			shale parting, slightly weathered - 0°,B,VN,PI,SR @ 63.0'	
							64		513			shale parting - 0°,B,T,crystalline infill,R @ 64.4'	
							65		512			15°,several,J,N,Qz,Su,Ir,SR @ 65.3-65.4'	
			66.0				66		511			80°,J,VN,crystalline,Su,Ir,SR @ 66-66.4'	
							67		510			grades argillaceous, pitty & vuggy @ 66.7'	
PQ	11	5.0	4.8	4.0	96	80	68		509			shale parting - 5°,B,T,Su,PI,SR @ 67.3'	
							69		508			10°,V,T,No,St,R @ 68.1'	
							70		507			shale parting - 10°,B,VN,Pa,PI,SR @ 69.0' fractured, highly weathered; some clay infill @ 69.0-69.6' vuggy dolomite @ 69.0-69.7'	Core box #6 starts @ 69.4'
							71		506			fractured; highly weathered; some clay infill @ 70.2'	
			71.0				71		506			SHALE; dolomitic; dark gray & gray, striated w/trace of very pale brown streaks; fissile & platy; highly weathered; residual infill (Salina Group - Unit F).	
							72		505			grades fresh; extremely strong; hard; massive; moderately wide joint spacing @ 72.0'	
PQ	12	5.0	4.8	4.3	96	86	73		504			0°,J,VN,No,No,PI,SR @ 72.4', 73.2', 73.9', 74.7'	
							74		503				
							75		503				

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# BORING LOG

BORING NO. MW-395D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Dogbey/Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
								75		502		0°,J,VN,No,No,PI,SR @ 75.3'	
			76.0					76		501		0°,J,VN,No,No,PI & Ir,SR @ 76.3', 76.7'	
PQ	13	5.0	4.7	2.7	94	54		77		500		DOLOMITE; light brownish gray; blocky; very fine grained; fresh; extremely strong; hard; thick bedded; (Salina Group - Unit F). 0-45°,numerous,J,MW,crystalline & Cl,Pa,Ir,R @ 76.9', 77.0', 77.9', 78.2'	
								78		499		90°J,N,Cl & crystalline,Pa,Ir,R @ 77.9-78.4' 90°J,T,H & Qz,Pa,Ir @ 78.1-78.9'	Core box #7 starts @ 78.7'
								79		498		SHALE; dolomitic; dark gray & gray, striated w/trace of very pale brown partings; blocky; fresh; very strong; hard; w/trace highly weathered partings & bands; (Salina Group - Unit F). 90°J,N,Cl & crystalline,Pa,Ir,R @ 78.2-78.6' numerous J,VN,No,No,SR @ 78.4-80.4' highly fractured, weathered; some 90° J @ 79.5-80.0'	
			81.0					80		497			
								81		496			
								82		495			
PQ	14	5.0	5.0	4.6	100	92		83		494		grades vuggy; w/calcite partial infilling @ 82.4' 0°,J,VN,Ca,Pa,PI,SR @ 82.4', 84.3', 84.5' 0-30°,J,N,Ca,Pa,Ir,SR @ 82.9', 83.3', 84.0', 84.8'	
								84		493			
								85		492		highly weathered band w/Cl & sand infilling @ 84.6' 90°J,VN,Ca,Pa,Ir,SR @ 84.8-85.4'	
								86		491		0°,J,N,Ca,Pa,Ir,SR @ 85.4'	
			86.0					87		490		0°,J,VN,No,No,PI,SR @ 86.7' grades completely weathered @ 87.0-89.5'	Possible solutioning through joints @ 87.0 & 90.0'. Possible 1.8' of fines & sand washout @ 86.0-91.0'. Core box #8 starts @ 88.0'.
PQ	15	5.0	3.2	1.4	64	28		88		489		weathered rock fractures @ 88.5-90.7'.	
								89		488			
								90		488		DOLOMITE; gray; blocky; micritic; fresh; extremely	

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# BLACK & VEATCH

# BORING LOG

BORING NO. MW-395D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8900.0'	GROUND ELEVATION (DATUM) E 4600.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level grassed area		COORDINATE SYSTEM Plant	DATE START 05/16/07	DATE FINISHED 05/21/07

LOGGED BY <i>Granger/Duncan</i>		CHECKED BY <i>Em</i> Dogbey/Meyer	APPROVED BY <i>Em</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	16	5.0	1.7	0	34	0	90		487		strong; hard; highly fractured; weathered fracture faces; (Salina Group - Unit F).	
			91.0				91		486		grades highly fractured & completely weathered; w/residual infill @ 91'	
							92		485			
							93		484			Possible washout of fines @ 88.5-96.0'.
							94		483			
							95		482			
			96.0				96		481			Water level @ 5.3' prior to drilling on 05/21/07. Boring @ 96.0'. After PQ-16 pulled outer core barrel for repairs.
PQ	17	5.0	3.0	2.8	60	56	97		480		SHALE; dolomitic; dark gray; blocky; highly weathered; strong; moderately hard to hard; pitted (vuggy); close joint spacing; highly fractured, 0-90°, numerous, J, N, Cl, Pa & Fi, Pl & Ir, SR to R; (Salina Group - Unit F).	
							98		479			
							99		478			
							100		477			
							101		476			Bottom of boring @ 101.0'. Water level not recorded. Monitoring well installed on 06/01/07.
							102		475			
							103		474			
							104		473			
							105		472			



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-395S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8906.2'	GROUND ELEVATION (DATUM) E 4599.7'	TOTAL DEPTH 14.4 (feet)
SURFACE CONDITIONS Level, gravel surface, E of Cooling Towers		COORDINATE SYSTEM Plant	DATE START 05/30/07	DATE FINISHED 05/30/07

SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Dogbey	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		577		Undifferentiated Overburden (See log for MW-395D)	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
								1		576			
								2		575			
								3		574			
								4		573			
								5		572			
								6		571			
								7		570			
								8		569			
								9		568			
								10		567			
								11		566			
								12		565			
								13		564			
								14		563			
								15					



# BLACK & VEATCH

# BORING LOG

BORING NO. MW-395S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8906.2'	GROUND ELEVATION (DATUM) E 4599.7'	TOTAL DEPTH 577.3 ft (NAVD 88) 14.4 (feet)
SURFACE CONDITIONS Level, gravel surface, E of Cooling Towers		COORDINATE SYSTEM Plant	DATE START 05/30/07	DATE FINISHED 05/30/07

SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Dogbey	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLE TYPE		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES							N VALUE	SAMPLE RECOVERY	CORE SIZE
				15		562			Bottom of boring @ 14.4'. Water level not recorded. Piezometer installed on 05/30/07.			
				16		561						
				17		560						
				18		559						
				19		558						
				20		557						
				21		556						
				22		555						
				23		554						
				24		553						
				25		552						
				26		551						
				27		550						
				28		549						
				29		548						
				30								



# BLACK & VEATCH

# BORING LOG

BORING NO. P-382S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5730.3'	GROUND ELEVATION (DATUM) E 3132.4' 576.4 ft (NAVD 88)	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Wooded high spot along a gravel road		COORDINATE SYSTEM Plant	DATE START 05/06/07	DATE FINISHED 05/07/07

SAMPLING		LOGGED BY Ohlmacher <i>GOB</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
SPT	1	1	11	31	42	1.3	0		576		SILT (ML) - About 90% low plasticity, low toughness, rapid dilatancy fines; about 10% organics w/tree roots; very dark grayish brown; soft; moist; no reaction w/HCl; homogeneous; (Topsoil-Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.
SPT	2	23	20	15	35	1.3	1		575		Poorly graded GRAVEL with Sand (GP) - About 70% fine to coarse, angular to subangular, hard gravel, max size 1.2", fractured w/3 hammer blows; about 25% fine to coarse, subangular to subrounded, sand; about 5% fines; light gray; dense; moist; strong reaction w/HCl; homogeneous; (Fill).	
SPT	3	6	22	5	27	0.6	2		574		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, angular to subangular sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Fill).	
SPT	4	WOHWOH	2	2	2	1.0	3		573		grades w/gravel @ 3.5'	
SPT	5	WOHWOH	1	1	1	0.8	4		572		ORGANIC Soil (OL) - About 100% medium plasticity, medium toughness, slow dilatancy, fines; black; very soft; moist; no reaction w/HCl; plant fragments; homogeneous; (Peat).	
SPT	6	WOH	1	2	3	1.3	5		571		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; trace sand; dark brown; very soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
SPT	7	1	2	1	3	1.4	6		570		grades gray @ 6.5'	
SPT	8	1	1	3	4	1.5	7		569		grades bluish gray; soft @ 7.5'	
SPT	9	5	10	14	24	1.5	8		568		grades brownish yellow @ 9.5'	
SPT	10	5	10	15	25	1.1	9		567		grades laminated @ 10.5'	
							10		566			
							11		565			
							12		564			
SPT	9	5	10	14	24	1.5	13		563		Sandy SILT (ML) - About 60% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, subangular to subrounded sand; about 10% fine to coarse, angular to subangular gravel; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
SPT	10	5	10	15	25	1.1	14		562			
							15		562			

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-382S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 5730.3'	GROUND ELEVATION (DATUM) E 3132.4'	TOTAL DEPTH 16.5 (feet)
SURFACE CONDITIONS Wooded high spot along a gravel road		COORDINATE SYSTEM Plant	DATE START 05/06/07	DATE FINISHED 05/07/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	11	4	8	12	20	1.5	15		561		grades dark gray @ 15.5'		
							16		560				
							17		559				
							18		558				
							19		557				
							20		556				
							21		555				
							22		554				
							23		553				
							24		552				
							25		551				
							26		550				
							27		549				
							28		548				
							29		547				
							30						

Bottom of boring @ 16.5'. Water level @ 14' @ completion of drilling. Piezometer installed on 05/07/07.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

SAMPLING		LOGGED BY GEO Ohlmacher	CHECKED BY GEO Dogbey/Ohlmacher	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1					3.0		0		580		Well graded GRAVEL with Sand and Cobbles (GW) - About 55% fine to coarse, angular to subangular, hard gravel; about 30% fine to coarse, subangular to subrounded, sand; about 10% angular to subangular, hard cobbles; about 5% fines; reddish gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
			5.0					5		575			
S	2					3.0		6		574			
								7		573			
								8		572			
								9		571			
								10		570			
			10.0					11		569			
								12		568			
S	3					2.9		13		567			
								14		566			
								14.3		566			
								15		566			

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Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% fine PP = 0.75 TSF



# BLACK & VEATCH

# BORING LOG

BORING NO. P-385D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

SAMPLING		LOGGED BY Ohlmacher <i>CCO</i>	CHECKED BY Dogbey/Ohlmacher <i>CCO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
S	4					4.3	15.0		565		to coarse, angular to subrounded sand; gray; soft; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).	
S	5					5.8	20.0		560		Sandy lean <u>CLAY</u> with Gravel (CL) - About 65% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, rounded to subangular sand; about 15% fine to coarse, rounded to subangular gravel, max. size 1"; about 5% angular, hard cobbles, max. size 4"; gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
S	6					5.0	25.0		555		Gravelly <u>SILT</u> with Sand (ML) - About 65% medium plastic, low toughness, slow dilatancy fines; about 20% fine to coarse, rounded to subangular gravel, max. size 3"; about 10% fine to coarse rounded to subangular sand; about 5% cobbles; gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-385D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

LOGGED BY Ohlmacher <i>OO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	3	3.6	3.6	2.9	100	81	45		535		grades 0% vugs @ 44.9' 22°, J, VN, UK, Pa, PI, S @ 45.0', 45.1 65°, J, No, No, PI, SR @ 45.2-45.9'		
							46		534		70°, J, T, No, No, PI, SR @ 46.7-47.8'		
			47.6				47		533		50°, J, T, No, No, PI, SR @ 47.6-47.9' 75°, J, T, No, No, WA, SR @ 47.8-49.8' grades dark gray and gray alternating bands @ 47.9'		
PQ	4	1.4	1.4	1.3	100	93	48		532				
			49.0				49		531		grading to 5% vugs @ 49.5' 60°, J, UK, Pa, WA, SR @ 49.5-50.1' 90°, J, T, No, No, PI, R @ 50.1-51.2' fracture zone @ 50.1'-51.3'		
PQ	5	5.0	4.3	2.0	86	40	50		530				
							51		529				
							52		528		grades 0% vugs @ 52.1' 80°, J, T, No, No, PI, SR @ 52.5-52.9'		
							53		527		grades 15% vugs @ 52.9'		
			54.0				54		526				
							55		525		grades gray, 0% vugs @ 54.2' 0°, J, VN, No, No, St, SR @ 54.8' 20°, J, T, No, No, PI, R @ 55.2' 90°, J, T, No, No, PI, SR @ 55.4-56.5'		
PQ	6	5.0	5.0	3.6	100	72	56		524		fractured and broken rock @ 56.5-58.0'		
							57		523				
							58		522		grades 15% vugs @ 58.0' 20°, J, T, No, No, PI, R @ 58.7'		
			59.0				59		521		90°, J, VN, Ca, Pa, PI, R @ 59.2-60.4'		
							60						

Core box #3 starts @ 57.0'.

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-385D  
SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY <i>DO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	7	5.0	4.8	4.3	96	86	60		520		thin SHALE bed; dolomitic; black; slightly weathered; very weak; low hardness; @ 60.4-60.7'		
							61		519		DOLOMITE; oolitic; brownish gray; fine grained; moderately weathered; strong; moderately hard; parting; (Bass Islands Group). 0°,J,T,No,No,PI,S @ 61.5'		
							62		518				
							63		517				
							64		516		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banding; (Bass Islands Group). 85°,J,T,No,No,PI,SR @ 64.2-64.8'	Core box #4 starts @ 62.9'	
PQ	8	5.0	4.9	2.9	98	58	65		515		grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°,J,T,No,No,PI,SR @ 66.6-67.2'		
							66		514				
							67		513				
							68		512		shale band; black @ 68.5-68.7'		
							69		511				
PQ	9	5.0	5.0	1.8	100	36	70		510		0°,B,VN,No,No,PI,SR @ 69.8', 69.9' fractured zone @ 70.1-70.2' 45°,J,VN,No,No,St,SR @ 70.3-70.6'		
							71		509		highly fractured, closely spaced, some vertical joints @ 71.0-73.6'		
							72		508				
							73		507				
							74		506		grades 10% vugs partially filled w/calcite @ 73.5'	Core box #5 starts @ 72.7'	
							75		506		grades highly fractured, healed, @ 74.7-76.7'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-385D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

LOGGED BY Ohlmacher <i>GAC</i>		CHECKED BY Dogbey/Ohlmacher <i>Em for GAC</i>	APPROVED BY Meyer <i>Em</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	10	5.0	5.0	3.8	100	76	75		505		25°, J, VN, No, No, Ir, R @ 75.9-76.0', 77.5' highly fractured, open @ 76.1-76.3' grades brownish gray, w/no fill in vugs @ 76.4'		
							76		504				
							77		503				
							78		502				
							79		501				
PQ	11	5.0	5.0	3.2	100	64	79.0		501		35°, J, VN, No, No, PI, R @ 79.6-79.7'		
							80		500				
							81		499				
							82		498				
							83		497				
							84		496				
PQ	12	5.0	4.8	2.8	96	56	84.0		496		grades no healed fractures @ 84.5' 10°, J, VN, Cl, Sp, PI, SR @ 85.2' 90°, J, T, No, No, PI, R @ 85.2-86.0'		
							85		495				
							86		494				
							87		493				
							88		492				
							89		491				
							89.0		491				
							88		492			SHALE; dark gray; (Bass Islands Group) 87.8	
							89		491			DOLOMITE; dark gray; very fine grained; slightly weathered; strong; moderately hard; banding; 10% unfilled vugs; w/shale partings; (Bass Islands Group). 88.4	
							89.0		491			0°, B, VN, No, No, PI, S @ 89.2' 90°, J, T, No, No, PI, SR @ 89.2-89.5'	

Core box #6 starts @ 82.2'

5/23/2008 4:15 PM DTE-Fermi 3



# BLACK & VEATCH

# BORING LOG

BORING NO. P-385D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6201.7'	GROUND ELEVATION (DATUM) E 4390.0'	TOTAL DEPTH 102.5 (feet)
SURFACE CONDITIONS Gravel parking lot near a field		COORDINATE SYSTEM	DATE START 05/07/07	DATE FINISHED 05/09/07

LOGGED BY GCO Ohlmacher		CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							90		490		0°, J, VN, No, No, WA, SR @ 89.4' highly fractured, open @ 89.9-91.0'		
PQ	13	5.0	5.0	3.1	100	62	91		489		20°, J, T, No, No, PI, SR @ 91.5' highly fractured, open @ 91.6-91.8'  highly fractured, open @ 92.3-92.6' grades gray, no vugs @ 92.3'	Core box #7 starts @ 92.4'	
			94.0				94		486		closely spaced joints @ 94.6-95.7' 70°, J, T, No, No, PI, SR @ 94.8-95.6'		
PQ	14	5.0	5.0	3.3	100	66	96		484		0°, J, VN, No, No, PI, SR @ 96.2', 97.9', 98.2'		
			99.0				99		481		DOLOMITE; argillaceous; gray; very fine grained; slightly weathered; strong; moderately hard; banding; w/shale partings; (Bass Islands Group). 10°, B, VN, No, No, PI, SR @ 99.4'		
PQ	15	3.5	3.5	1.8	100	51	100		480		highly fractured, open @ 100.4-100.9' 80°, J, T, No, No, PI, SR @ 100.5-101.0', 102.2-102.5' (2 joints) 90°, J, T, No, No, PI, SR @ 100.9-101.6'		
							101		479				
							102		478		25°, J, T, No, No, PI, SR @ 102.0-102.2'	Core box #8 starts @ 102.1'	
							103		477			Bottom of boring @ 102.5'. Water level @ 14.5' @ completion of drilling.	
							104		476			Piezometer installed on 05/31/07.	
							105		475				

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-385S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6198.1'	GROUND ELEVATION (DATUM) E 4385.6'	TOTAL DEPTH 580.2 ft (NAVD 88) 17.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 05/18/07	DATE FINISHED 05/18/07

SAMPLING		LOGGED BY Deeken <i>JD</i>	CHECKED BY <i>EM</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE		SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORING		CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SPT	1	4	7	6	13	0.3		0		580		Well graded GRAVEL with Sand (GW) - About 70% fine to coarse, angular gravel w/max size 1"; fractured w/1 hammer blow; about 25% fine to coarse, angular sand; about 5% fines; gray; medium dense; moist; strong reaction w/HCl; (Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.	
								1		579				
								2		578				
								3		577				
								4		576				
								5		575				
								6		574				
								7		573				
								8		572				
								9		571				
								10		570			grades wet @ 10.0'	
SPT	2	18	5	2	7	0.5		11		569				
								12		568				
								13		567				
SPT	3	1	2	3	5	0.0		14		566				
								15						

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14.7



# BLACK & VEATCH

# BORING LOG

BORING NO. P-385S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 6198.1'	GROUND ELEVATION (DATUM) E 4385.6'	TOTAL DEPTH 17.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 05/18/07	DATE FINISHED 05/18/07

LOGGED BY Deeken <i>J.D.</i>		CHECKED BY <i>GO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	4					1.7	15		565			Lean CLAY (CL) - About 100% LL=36, PL=16, no dilatancy fines; brown; firm; moist; strong reaction w/ HCl; homogeneous; (Lacustrine Deposits).	
							16		564				
							17		563				Bottom of boring @ 17.0'. Water level not recorded. Piezometer installed on 06/04/07.
							18		562				
							19		561				
							20		560				
							21		559				
							22		558				
							23		557				
							24		556				
							25		555				
							26		554				
							27		553				
							28		552				
							29		551				
							30						



# BLACK & VEATCH

# BORING LOG

BORING NO. P-389S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 7821.4'	GROUND ELEVATION (DATUM) E 3889.3'	TOTAL DEPTH 17.0 (feet)
SURFACE CONDITIONS West side of Doxy Rd near intersection of Tower Rd		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/15/07
LOGGED BY <i>[Signature]</i> Duncan		CHECKED BY <i>[Signature]</i> Dogbey/Meyer	APPROVED BY <i>[Signature]</i> Meyer	

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	11	17	10	27	0.7	0		576		Sandy SILT (ML) - About 60% low plasticity to non-plastic, low toughness, low dry strength fines; about 40% fine to coarse, subangular & angular sand; hard; (Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/center bit. SPT performed w/BK-81 automatic hammer.	
SPT	2	9	12	13	25	0.8	1		575		Well graded GRAVEL with Sand (GW) - About 60% fine to coarse, angular, hard gravel w/max. size 1"; about 40% fine to coarse, angular & subangular sand; medium dense; (Fill).		
SPT	3	7	12	8	20	0.6	2		574		Sandy SILT with Gravel (ML) - About 60% low plasticity, low toughness fines; about 20-40% fine to coarse, angular & subangular sand; 10-20% gravel; light brown; hard; moist; lensed; (Fill).		
SPT	4	4	4	3	7	1.0	3		573		grades firm		
SPT	5	2	3	5	8	1.4	4		572		Lean CLAY with Sand (CL) - About 85% low to medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse sand; grayish brown; firm; moist; lensed; (Fill).		
SPT	6	3	4	4	8	1.1	5		571		Lean CLAY (CL) - About 100% high plasticity, low toughness, no dilatancy fines; black; soft; moist; homogeneous; peat (organics).		
SPT	7	3	4	4	8	1.1	6		570		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; w/trace sand; reddish brown & gray; firm; moist; lensed.		
TW	7						7		569				
SPT	8	6	8	14	22	1.5	8		568		grades hard; dry to moist @ 11.0'		
SPT	9	8	13	20	33	1.5	9		567		Sandy Lean CLAY (CL) - About 70% low plasticity, medium to high toughness, no dilatancy fines; about 30% fine sand; w/trace gravel; strong; brown; very hard; homogeneous; moist.		
SPT	10	4	10	18	28	1.0	10		566		grades hard		
							11		565				
							12		564				
							13		563				
							14		562				

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-389S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 7821.4'	GROUND ELEVATION (DATUM) E 3889.3'	TOTAL DEPTH 17.0 (feet)
SURFACE CONDITIONS West side of Doxy Rd near intersection of Tower Rd		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/15/07
SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Dogbey/Meyer	APPROVED BY <i>[Signature]</i> Meyer

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							15						
							16			561			Below 16.0' continued w/4 1/4" ID, 8" OD hollow stem augers w/ center bit.
							17			560			Bottom of boring @ 17.0'. Water level not recorded. Piezometer installed on 05/15/07.
							18			559			
							19			558			
							20			557			
							21			556			
							22			555			
							23			554			
							24			553			
							25			552			
							26			551			
							27			550			
							28			549			
							29			548			
							30			547			



# BLACK & VEATCH

# BORING LOG

BORING NO. P-392S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8088.7'	GROUND ELEVATION (DATUM) E 5841.5'	TOTAL DEPTH 18.0 (feet)
SURFACE CONDITIONS Level, gravel surface, SE of S Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/29/07	DATE FINISHED 05/29/07
LOGGED BY Duncan		CHECKED BY Dogbey/Meyer	APPROVED BY Meyer	

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
								0				Undifferentiated Rock Fill	Boring advanced w/vacuum excavation.
								1		580			
								2		579			
								3		578			
								4		577			
								5		576			
								6		575			
								7		574			
								8		573			
SPT	1	2	4	3	7	0.5		8		572		Below 8.0' continued w/4 1/4" ID, 8" OD hollow stem augers w/ tricone center bit. SPT performed w/BK-81 automatic hammer.	
								9		571		Poorly graded GRAVEL (GP) - About 100% fine to coarse, angular, flat to elongated, hard gravel w/max. size 1 1/4"; pinkish gray; loose; strong reaction w/HCl; homogeneous; (Fill).	
SPT	2	3	3	4	7	0.5		10		570			
								11		569		Poorly graded SAND with Gravel (SP) - About 80% fine to coarse, angular & subangular, hard sand; about 20% fine to coarse, angular, flat & elongated, hard gravel w/max. size 1"; pinkish gray; medium dense; strong reaction w/HCl; homogeneous	
SPT	3	11	11	13	24	0.8		12		568			
								13		567			
SPT	4	6	6	8	14	0.9		14		566			
SPT	5	7	7	10	17	NR		15		566			

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-392S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8088.7'	GROUND ELEVATION (DATUM) E 5841.5'	TOTAL DEPTH 18.0 (feet)
SURFACE CONDITIONS Level, gravel surface, SE of S Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/29/07	DATE FINISHED 05/29/07
SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Dogbey/Meyer	APPROVED BY <i>[Signature]</i> Meyer

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
TW	6					2.0	15		565				
							16		564			Fat CLAY (CH) - About 100% high plasticity, low to medium toughness, no dilatancy, high to very high dry strength fines; dark greenish gray, w/trace brown; soft; moist; no reaction w/HCl; lensed.	TV = 1.0 TSF @ 16.0'
							17		563				
							18		562				Bottom of boring @ 18.0'. Water level not recorded. Piezometer installed on 05/29/07.
							19		561				
							20		560				
							21		559				
							22		558				
							23		557				
							24		556				
							25		555				
							26		554				
							27		553				
							28		552				
							29		551				
							30						




# BLACK & VEATCH

# BORING LOG

BORING NO. P-396S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8949.8'	GROUND ELEVATION (DATUM) E 5248.8'	TOTAL DEPTH 19.5 (feet)
SURFACE CONDITIONS Level, grass & gravel surface, E of Cooling Towers		COORDINATE SYSTEM Plant	DATE START 05/23/07	DATE FINISHED 05/24/07
SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	3	4	7	0.5	0		578		Undifferentiated Rock Fill	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers.	
							1		577				
							2		576				
							3		575				
							4		574				
							5		573				
							6		572				
							7		571				
							8		570				
							9		569				
							10		568				
							11		567				
							12		566		Fat CLAY (CH) - About 100% medium to high plasticity, low toughness, no dilatancy, high dry strength fines; dark greenish gray; mottled w/trace brown; firm; moist; slight odor; no reaction w/HCl; lensed.	SPT performed w/BK-81 automatic hammer.	
							13		565				
							14		564				
							15						

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-396S

SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8949.8'	GROUND ELEVATION (DATUM) E 5248.8'	TOTAL DEPTH 19.5 (feet)
SURFACE CONDITIONS Level, grass & gravel surface, E of Cooling Towers		COORDINATE SYSTEM Plant	DATE START 05/23/07	DATE FINISHED 05/24/07
SAMPLING		LOGGED BY <i>[Signature]</i> Dunnean	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer

CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD						
TW	2					1.5	15	563	[Hatched]	Lean CLAY (CL) - About 90% low plasticity, medium toughness, no dilatancy, medium dry strength fines; about 10% fine to medium, rounded, hard sand; brown mottled w/dark greenish gray; firm; moist; strong reaction w/HCl; (Glacial Till).	TV = 1.0 TSF @ 15.0'	
SPT	3	5	15	21	36	1.5	18	560	[Dotted]	Lean CLAY with Sand (CL) - About 85% low plasticity, high toughness, no dilatancy, medium dry strength fines; about 15% fine to coarse, subangular to subrounded, hard sand; dark reddish gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).		
							19	559				Bottom of boring @ 19.5'. Water level @ 7.0' @ completion of drilling. Piezometer installed on 05/24/07.
							20	558				
							21	557				
							22	556				
							23	555				
							24	554				
							25	553				
							26	552				
							27	551				
							28	550				
							29	549				
							30					

5/20/2008 6:03 PM DTE-Fermi 3



# BLACK & VEATCH

# BORING LOG

BORING NO. P-397S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 8901.4'	GROUND ELEVATION (DATUM) E 5748.5'	TOTAL DEPTH 21.5 (feet)
SURFACE CONDITIONS Level, gravel shoulder, East of Cooling Towers		COORDINATE SYSTEM Plant	DATE START 05/23/07	DATE FINISHED 05/23/07
SOIL SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Dogbey/Meyer	APPROVED BY <i>[Signature]</i> Meyer

SAMPLE TYPE		SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		576		Undifferentiated Rock Fill;	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/BK-81 automatic hammer.
								1		575			
								2		574			
								3		573			
								4		572			
SPT	1	1	2	3	5	0.7		5		571		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subangular & angular, hard sand; dark grayish brown; firm; moist; strong reaction w/HCl; homogeneous	
								6		570		Fat CLAY (CH) - About 90% high plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subangular & angular, hard sand; dark grayish brown; firm; moist; weak reaction w/HCl; homogeneous	
								7		569			
								8		568			
								9		567			
								10		566			
SPT	2	1	2	3	5	0.0		11		565			
								12		564			
								13		563		ORGANIC Soil (OL/OH) - About 95% high plasticity, medium toughness, slow dilatancy, low dry strength fines; 5% organic material (peat); dark gray; soft; moist; strong odor; no reaction w/HCl; homogeneous	
								14		562		Lean CLAY (CL) - About 95% low to medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% coarse, rounded & subrounded, hard sand; yellowish brown mottled with light olive gray; firm; moist; homogeneous; (Glacial Till).	
SPT	3	3	3	7	10	1.5		15		561			

7/14/2008 12:05 PM DTE-Fermi 3

Drill reaction changed @ 12.5'



# BLACK & VEATCH

# BORING LOG

BORING NO. P-397S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8901.4'					GROUND ELEVATION (DATUM) E 5748.5'					576.0 ft (NAVD 88)					TOTAL DEPTH 21.5 (feet)				
SURFACE CONDITIONS Level, gravel shoulder, East of Cooling Towers										COORDINATE SYSTEM Plant					DATE START 05/23/07					DATE FINISHED 05/23/07									
SOIL SAMPLING										LOGGED BY <i>[Signature]</i> Doreen					CHECKED BY <i>[Signature]</i> Dogbey/Meyer					APPROVED BY <i>[Signature]</i> Meyer									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
ROCK CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																							
TW	4					0.9	15		561		Sandy Lean CLAY (CL) - About 70% low plasticity, high toughness, slow to no dilatancy, medium to high dry strength fines; about 30% coarse, rounded to subrounded, hard sand; dark gray; very hard; dry to moist; strong reaction w/HCl; homogeneous; (Glacial Till).																		
							16		560																				
							17		559																				
							18		558																				
							19		557																				
							20		556																				
SPT	5	9	16	20	36	1.3	21		555																				
							22		554																				
							23		553																				
							24		552																				
							25		551																				
							26		550																				
							27		549																				
							28		548																				
							29		547																				
							30		546																				
												Bottom of boring @ 21.5'. Water level not recorded. Piezometer installed on 05/23/07.																	



# BLACK & VEATCH

# BORING LOG

BORING NO. P-398D

SHEET 1 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

LOGGED BY <i>Grainger/Duncan</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	1					5.0	0		577		Silty GRAVEL with Sand (GM) - About 60% coarse, angular, hard gravel w/max size 3"; about 20% fine to coarse, angular sand; about 15% no plasticity, low toughness, no dilatancy, low dry strength fines; about 5% cobbles; yellowish brown; moist; strong reaction w/ HCl; homogeneous; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	2		5.0			4.5	5		573		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subrounded sand; w/trace rounded cobbles; yellowish brown; firm; moist; homogeneous; (Fill).	
S	3		10.0			5.0	10		568		ORGANIC Soil (OL/OH) - About 95% medium plasticity, medium toughness, slow dilatancy, low dry strength fines; about 5% peat; dark gray; soft; moist; earthy odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
							11		567		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% coarse, rounded to subrounded sand; light olive gray mottled w/yellowish brown; firm; moist; homogeneous; (Glacial Till).	
							12		566			
							13		565			
							14		564			
							15		563			

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-398D

SHEET 2 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1'	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
S	4		15.0			5.0	15		562		Sandy Lean <u>CLAY</u> with Gravel (CL) - About 70% medium plasticity, medium toughness, slow dilatancy, very high dry strength fines; about 15% fine to coarse, angular to rounded, hard sand; about 15% fine to coarse, angular to rounded, hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
S	5		20.0			5.0	20	558				
S	6		25.0			4.5	25	553				
							26	552				
							27	551				
							28	550		DOLOMITE; light olive gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).	Below 26.5' water circulated w/ sonic drilling to prevent fines caking on samples. 50% drilling fluid loss @ 27.0'.	
							29	549				
							30	548				
											0°, J, T, No, No, PI, SR @ 29.5', 29.8'	Set nominal 6" temporary steel casing to 29.5'.

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# BORING LOG

BORING NO. P-398D

SHEET 3 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Geo. P. [Signature]</i> Grainger/Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	1	1.5	1.4	1.4	93	93	30					Below 29.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Core box #1 starts @ 29.5'.
			31.0				31		547			
							32		546		grades w/vugs & pits; w/trace quartz infill @ 31.5' 15°, J, VN, Su, SR, w/slight weathering @ 31.5' 0°, J, N, No, Su, PI, SR w/moderate weathering @ 32.0' 0°, J, N, No, Su, PI, SR moderately weathered; clay staining @ 32.5', 32.6'	
PQ	2	5.0	5.0	4.8	100	96	33		545			
							34		544		grades w/trace vugs & pits, fresh @ 33.8' 0°, J, T, No, No, PI, SR @ 33.8, 34.2', 34.4', 34.8'	
							35		543			
			36.0				36		542		30° & 40°, J, T, No, No, Ir, R @ 35.5' 0°, J, N, No, Su, PI, SR w/slight weathering & staining @ 35.9'	
							37		541		DOLOMITE; crystalline; medium gray; micritic; fresh; strong; hard; interbedded w/argillaceous dolomite & shale partings; (Salina Group - Unit F). shale parting; highly weathered fragments; max size 3/4" @ 36.3'	
PQ	3	5.0	4.7	3.8	94	76	38		540		15°, J, T, No, No, PI, SR @ 36.7' shale bands -1", highly weathered; fragments, max. size 3/4" @ 36.8'	Core box #2 starts @ 38.1'.
							39		539		tan & gray striations, moderately weathered; w/shale partings @ 37.1' to 37.3'	
							40		538		slightly weathered; w/staining & large vug @ 39.3-39.5'	Drill speed reduced due to strong vibration around 39.3'.
			41.0				41		537			
							42		536			
							43		535		2" thick fractured zone @ 42.5' shale band -1 1/2", highly weathered, broken fragments, max. size 3/4" @ 42.8'	
PQ	4	5.0	4.9	4.6	98	92	44		534			
							45		533			



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# BORING LOG

BORING NO. P-398D

SHEET 4 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	5	5.0	5.0	3.5	100	70	45		532		SHALE; gray; blocky; strong; very hard; (Salina Group - Unit F). highly weathered band @ 45.5'-45.7'	
			46.0				46		531		60° J,T,No,No,Ir,R, intersecting 0°, J,T,No,No,Ir,R @ 46.7'	
							47		530		0°, J,T,No,No,Ir,R @ 47.0'	
							48		529		0°, J,N,No,No,PI,SR, moderately weathered parting @ 47.2'	Core box #3 starts @ 47.6'.
							49		528		0 & 60° intersecting J,T,No,Su,Ir,R, slightly weathered @ 47.4-47.8'	
							50		527		0°, 50° & 90° intersecting J,T,No,No,Ir,R @ 47.8-49.5'	
							51		526		30°, J,VN,No,Su,Ir,SR, slight weathering @ 50.0'	
							52		525		0 & 60°, J,VN,No,Su,Ir,SR, numerous, slightly weathered @ 50.0-56.6'	
PQ	6	5.0	4.4	2.3	88	46	53		524		0 & 60°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.2-51.6'	
							54		523		0, 30 & 80°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.6-52.0'	
							55		522		highly weathered to residual, thin bedded, max. size 1 1/2" @ 52.5-53.0'	
							56		521		0° & other angle, J,N,No,No,Ir,SR numerous, moderately weathered @ 53.3-53.6'	
							57		520		DOLOMITE; slightly to moderately weathered, fractured & stained; (Salina Group - Unit F).	
							58		519		SHALE; gray; blocky; strong; very hard; (Salina Group - Unit F). highly weathered to residual; fractured @ 54.9-56.0'	
							59		518		80°, J,T,No,No,Ir,R @ 56.5-57.1'	Core box #4 starts @ 56.0'.
							60				30°, J,T,No,No,Ir,R @ 56.5'	
PQ	7	5.0	3.8	2.4	76	48					0°, J,VN,No,Su,PI,R, slightly weathered @ 57.1'	
											60°, J,T,No,No,Ir,R @ 57.2-57.5'	
											fractured; slightly to completely weathered @ 57.6-58.8'	
											SHALE; dolomitic; gray; highly weathered to residual; very weak; low hardness to friable; (Salina Group - Unit F)	

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# BORING LOG

BORING NO. P-398D

SHEET 5 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	8	5.0	3.7	1.0	74	20	60						
							61					grades w/trace pits & vugs @ 61.0'	
							62						
							63						
							64						
							65						
							66						
							67					2" dolomite band @ 66.9-67.1'	
							68						
							69						
							70						
							71						
							72						
							73						
							74						
							75						

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Core box #5 starts @ 66.0'.



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# BORING LOG

BORING NO. P-398D

SHEET 6 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING			LOGGED BY <i>Granger/Duncan</i>	CHECKED BY <i>Meyer</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD						
PQ	11	5.0	3.7	2.8	74	56	75					
			76.0				76		502			
							77		501			
							78		500			
							79		499			Core box #6 starts @ 78.1'.
							80		498			
			81.0				81		497		SHALE; dolomitic; gray; blocky; micritic; fresh; very strong; hard; highly fractured; w/bands that are highly weathered to completely weathered & infilled w/clay & dolomitic shale fragments; occasional vuggy & pitty beds of dolomitic shale; (Salina Group - Unit F).	
							82		496			
							83		495			
PQ	12	5.0	5.0	4.1	100	82	84		494			
							85		493			
							86		492		grades w/residual shale beds @ 86.0'	
			86.0				87		491			Water level @ 24.8' prior to drilling on 05/17/07.
							88		490			
PQ	13	5.0	2.9	0.0	58	0	89		489			
							90		488			



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# BORING LOG

BORING NO. P-398D

SHEET 7 OF 7

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9510.6'	GROUND ELEVATION (DATUM) E 5352.1' 577.9 ft (NAVD 88)	TOTAL DEPTH 101.0 (feet)
SURFACE CONDITIONS Level, grassy covered; North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/15/07	DATE FINISHED 05/17/07

SAMPLING		LOGGED BY <i>[Signature]</i> Grainger/Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	14	5.0	3.8	0.4	76	8	90		487				Core box #7 starts @ 91.0'.
			91.0				91		486				
							92		485				
							93		484				
							94		483				
							95		482				
			96.0				96		481				1.7' core loss due to wash out.
							97		480				
PQ	15	5.0	3.3	2.2	66	44	98		479		BRECCIA; dark greenish gray; vuggy; very fine grained; moderately weathered; very strong; hard; pits & vugs; slightly fossiliferous; healed w/calcite; strong reaction w/HCl; very rough surfaces; (Salina Group - Unit F).		
							99		478		3" fractured zone; moderately weathered w/staining @ 99.4-99.8'		
							100		477				
							101		476				Bottom of boring @ 101.0'. Water level @ 24.8' @ completion of drilling. Piezometer installed on 06/02/07.
							102		475				
							103		474				
							104		473				
							105						



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# BORING LOG

BORING NO. P-398S

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 9504.3'	GROUND ELEVATION (DATUM) E 5350.4'	TOTAL DEPTH 18.0 (feet)
SURFACE CONDITIONS Level, grass cover, North of North Cooling Tower		COORDINATE SYSTEM Plant	DATE START 05/23/07	DATE FINISHED 05/23/07

SAMPLING		LOGGED BY <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
				0		578		Undifferentiated Overburden; (Refer to Log P-398D)	Boring advanced w/4½" ID, 8" OD hollow stem augers w/tricone bit as center plug. SPT performed w/BK-81 automatic hammer.				
				1		577							
				2		576							
				3		575							
				4		574							
SPT	1	2	3	3	6	0.9		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 10% coarse, subrounded, hard sand; trace rounded, moderately hard cobbles; yellowish brown; firm; moist; strong reaction w/HCl; homogeneous; (Fill). about 30% sand @ 5.0-5.5'					
				5		573							
				6		572							
				7		571							
				8		570							
				9		569							
				10		568							
SPT	2	2	2	4	6	1.3		ORGANIC Soil (OL/OH) - About 95% medium plasticity, medium toughness, slow dilatancy, low dry strength fines; about 5% peat; dark gray; firm; moist; no reaction w/HCl; homogeneous					
				11		567							
				12		566							
				13		565							
				14		564		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 5% coarse, rounded to subrounded, hard sand; light olive gray, mottled with yellowish brown; firm; moist; homogeneous; (Glacial Till).					
TW	3					1.6							
				15		563							

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# BORING LOG

BORING NO. P-398S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9504.3'					GROUND ELEVATION (DATUM) E 5350.4'					TOTAL DEPTH 578.0 ft (NAVD 88) 18.0 (feet)				
SURFACE CONDITIONS Level, grass cover, North of North Cooling Tower										COORDINATE SYSTEM Plant					DATE START 05/23/07					DATE FINISHED 05/23/07				
SAMPLING										LOGGED BY <i>[Signature]</i> Duncan					CHECKED BY Meyer <i>EM</i>					APPROVED BY Meyer <i>EM</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS			
											CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	4	3	6	7	13	1.4	15		563												TV = 1.5 TSF @ 15.0'			
							16		562															
							17		561															
							18		560															
							19		559												Bottom of boring @ 18.0'. Water level not recorded. Piezometer installed on 05/23/07.			
							20		558															
							21		557															
							22		556															
							23		555															
							24		554															
							25		553															
							26		552															
							27		551															
							28		550															
							29		549															
							30		548															

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# BORING LOG

BORING NO. P-399D

SHEET 1 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	1	3	4	1.1	0 - 3		574 - 572		Undifferentiated overburden (see log for P-399P)	Boring advanced w/4 1/4" ID, 8" OD hollow stem auger without center bit. Drilled 2'; gravel inside hollow stem.	
SPT	2	2	2	4	6	1.2	3 - 5		572 - 570		ORGANIC Soil (OH) - About 100% high plasticity, high toughness, no dilatancy fines; very dark grayish brown; soft; moist; organic odor; no reaction w/HCl; homogeneous w/organics; (Topsoil).  Lean CLAY (CL) - About 95% low plasticity, medium toughness, no dilatancy fines; about 5% coarse, subrounded, hard sand; grayish brown; firm; moist; no reaction w/HCl; homogeneous; w/trace roots; (Lacustrine Deposit).  grades w/trace gravel, max. size 1 1/2" @ 5'	Installed center bit, redrilled to 2'. SPT performed w/D-50 automatic hammer.	
SPT	3	2	5	11	16	1.7	5 - 7		570 - 568		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, slow dilatancy fines; about 30% fine to coarse, angular to subrounded, hard (fractured w/2 hammer blows) sand; red to reddish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP=2.0 TSF	
SPT	4	5	7	10	17	1.8	7 - 9		568 - 566		Sandy SILT (ML) - About 70% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, angular to subrounded sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP>4.5 TSF	
SPT	5	2	9	15	24	1.4	9 - 11		566 - 564		Sandy SILT (ML) - About 60% low plasticity, low toughness, rapid dilatancy fines; about 30% fine to coarse, subangular to subrounded sand; about 10% fine, subangular to subrounded, soft to hard gravel, max. size 1/2"; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).  grades very hard @ 11.5'		
SPT	6	8	14	17	31	1.3	11 - 13		564 - 562		grades hard; gravel, max. size 1" @ 13'		
SPT	7	7	13	15	28	0.8	13 - 14		562 - 561		grades gray @ 14'	PP>4.5 TSF	
							14 - 15		561 - 560				

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# BORING LOG

BORING NO. P-399D

SHEET 2 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 2565.6' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)					TOTAL DEPTH 104.0 (feet)				
SURFACE CONDITIONS Flat road surface adjacent to wetland															COORDINATE SYSTEM Plant					DATE START 05/03/07					DATE FINISHED 05/06/07				
SAMPLING										LOGGED BY Ohlmacher										CHECKED BY Dogbey/Ohlmacher					APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
											CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD												
SPT	8	6	8	12	20	1.4	15		559		grades dark gray @ 15'																		
SPT	9	6	14	27	41	1.4	16		558		grades w/sand lenses, 0.4' spacing, up to 1" thick @ 17.0'																		
SPT	10	2	8	27	35	1.2	17		557																				
SPT	11	6	10	17	27	1.3	18		556																				
SPT	12	7	10	16	26	0.3	19		555		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subangular to subrounded sand; about 10% fine, subangular to subrounded gravel w/max. size 5/8", fractured w/1 hammer blow; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).										Sand heaving: cleaned out augers w/4 1/4" tricone roller bit w/water as drilling fluid. PP>4.5 TSF @ 20.0'								
SPT	13	8	11	14	25	1.5	20		554																				
SPT	14	12	10	13	23	1.2	21		553																				
SPT	15	16	26	17	43	1.1	22		552																				
SPT	16	50/4	-	-	50+	NR	23		551																				
			26.8				24		550																				
							25		549																				
PQ	1	2.2	2.2	0.4	100	18	26		548		Poorly graded GRAVEL with Silt and Sand (GP-GM) - About 70% fine to coarse angular gravel, max. size 1"; about 20% fine to coarse, angular sand; about 10% fines; gray; dense; slight reaction w/HCl; (Weathered Bass Islands Group).										@ 26.5' gravel inside hollow stem. Cleaned out w/4 1/4" tricone bit w/ water as drilling fluid. Auger refusal @ 26.8'. Set nominal 6" temporary steel casing to 28.5'.								
							27		547		DOLOMITE; gray; crystalline; very fine grained; slightly weathered; strong; hard; banded; close joint spacing; (Bass Islands Group). highly fractured @ 26.8-27.2', 27.9-28.5' 90°, J,T,No,No,PI,SR @ 27.2-27.9' 0°, J,T,No,No,PI,SR @ 27.6' 0°, B,No,No,PI,S @ 28.6'																		
							28		546																				
			29.0				29		545																				
							30		545		20°, J,No,No,St,Sik @ 29.5' grades w/very close joint spacing @29.5-32.0'																		

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-399D  
SHEET 3 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

LOGGED BY Ohlmacher <i>COO</i>		CHECKED BY Dogbey/Ohlmacher <i>COO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	2	5.0	4.6	1.4	92	28	30		544		numerous vertical joints, healed-No, T, UK-No, Sp-No, PI, SR @ 29.5-32.0'	Below 26.8' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 26.8'.	
							31		543		0°, B, T, No, No, PI, SR @ 30.0-30.4'; 4 joints 15°, J, T, No, No, PI, S @ 30.5'		
							32		542		0°, B, T, No, No, PI, S @ 32.1'		
							33		541		90°, J, T, No, No, PI, SR @ 32.1-33.0'		
			34.0				34		540		5°, J, T, UK, Pa, PI, SR @ 33.1'	No drilling fluid return @ 37.0'. Core box #2 starts @ 37.0'.	
							35		539		0°, B, T, No, No, PI, SR @ 33.5'		
							36		538		90°, J, T, No, No, PI, SR @ 33.6-34.0' fractured @ 34.0-34.3'		
							37		537		0°, B, T, No, No, PI, SR @ 34.3-34.5', 35.3-35.4' two bedding planes		
							38		536		15°, J, T, Ca, Pa, PI, SR @ 34.5-35.2'		
							39		535		0°, B, T, No, No, PI, SR @ 34.9'		
							40		534		70°, J, N, No, No, Ir, VR @ 35.8'		
							41		533		0° B, VN, No, No, PI, R @ 35.9'		
							42		532		90° J, T, No, No, WA, R @ 36.1-36.3'		
							43		531		0° B, T, No, No, PI, SR @ 36.3'		
							44		530		50° J, T, No, No, PI, SR @ 36.5-36.9' grades w/5% vugs up to 1/2" @ 37.0'		
			39.0				45				0° J, T, No, No, Ir, SR @ 37.0'		
											20° J, T, No, No, PI, S @ 37.2-37.5'		
											fractured @ 37.4-37.7'		
											fractured @ 39.4-39.7'		
											brecciated, healed fractures @ 39.7-40.1'		
											grades brownish gray, thin bedded to massive @ 40'		
											60° J, N, No, No, PI, SR @ 40.1-40.5'		
											70° J, N, CI, Fi, PI, SR @ 40.6-41.5'		
											30° J, VN, No, No, Ir, R @ 40.7'		
											10° J, VN, No, No, Ir, R @ 41.6'		
											grades gray @ 42.6'		
											50° J, W, Sd, Fi, PI, R @ 43.1-43.5'		
											fractured @ 44.0-44.6'		
			44.0								50° J, VN, Ca, Fi, St, SR @ 44.6-44.8'		

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# BORING LOG

BORING NO. P-399D  
SHEET 4 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	5	5.0	4.9	3.4	98	68	45		529	fractured @ 45.1-45.4' 30°, J, VN, Ca, Sp, St, SR @ 45.1'	Core box #3 starts @ 46.3'.		
							46		528	10°, J, T, No, No, St, SR @ 46.1' fractured @ 46.3-46.5'			
							47		527	75°, J, T, No, No, PI, SR @ 47.3-47.7'			
			49.0				48		526	10°, J, W, Sd, Pa, PI, R @ 48.4'			
PQ	6	2.0	1.5	0.4	75	20	49		525	fractured, clayey sand infilling @ 49.0-49.7'			
							50		524	15°, J, PI @ 49.9' 0°, J, Ca, Sp, PI, SR @ 50.3'			
			51.0				51		523	SHALE; dolomitic; dark gray; micritic; slightly weathered; strong; hard; closely spaced joints; (Salina Group Unit F).			
PQ	7	3.0	1.6	0.7	53	23	52		522	DOLOMITE; dark gray; very fine grained; slightly weathered; strong; hard; closely spaced joints; interbedded w/shale; (Salina Group Unit F). dolomitic gravel @ 52.0-52.2' 0°, J, W, Cl, Fi, PI, SR @ 52.5' 10°, J, No, No, PI, SR @ 52.8'			
			54.0				53		521				
							54		520	90°, J, Ca, Sp, PI, SR @ 54.0-54.5' fractured @ 54.2-54.4'			
							55		519	25°, J, No, No, PI, SR @ 54.5' 15°, J, T, No, No, PI, SR @ 54.8' grades brownish gray, 10% vugs @ 54.8' fractured @ 54.9-55.3'			
PQ	8	5.0	4.8	0.5	96	10	56		518	10°, J, VN, No, No, PI, SR @ 55.1' 90°, J, T, No, No, PI, SR @ 55.1' fractured @ 55.8-56.5'			
							57		517	45°, J, T, No, No, St, R @ 56.5-56.7' 0°, B, T, Ca, Sp, PI, SR @ 56.8' fractured @ 56.9-57.4'			
							58		516	0°, V, W, Ca, Fi, Ir, R @ 57.5-57.7'			
			59.0				59		515	DOLOMITE; brownish gray & gray; crystalline; very fine grained; slightly weathered; strong; hard; 20% vugs; (Salina Group Unit F). 90°, J, N, No, No, PI, SR @ 57.7-58.4'	Core box #4 starts @ 58.5'.		
							60		515	DOLOMITE; gray; crystalline; very fine grained; slightly weathered; strong; hard; massive; no vugs; (Salina Group Unit F).			

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# BLACK & VEATCH

# BORING LOG

BORING NO. P-399D  
SHEET 5 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

LOGGED BY Ohlmacher <i>GOO</i>		CHECKED BY Dogbey/Ohlmacher <i>GOO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	9	2.7	1.5	0.0	56	0	60				0°, J, Cl, Sp, Pl, R @ 58.4' closely spaced joints @ 58.4-59.0' fractured @ 59.0-60.5'	
							61		514		SHALE; w/calcite sand; moderately weathered; weak; friable; (Salina Group - Unit F).	
			61.7				62		513			
PQ	10	2.1	2.1	0.7	100	29	62		512		DOLOMITE; brownish gray; vuggy; micritic; slightly weathered; strong; hard; banded; 10% vugs up to 1"; w/shale bands up to 1" thick; (Salina Group - Unit F). highly fractured @ 62.0-63.1'	
							63		511			
			63.8				64		511		0°, J, Pl, SR @ 63.5' fractured @ 63.8-66.6'	
							65		510			
PQ	11	3.6	2.3	0.0	64	0	65		509		0°, B, T, No, No, Pl, SR @ 65.2' 90°, J, T, No, No, Pl, SR @ 65.2-65.8'	
							66		508			
							67		508		SHALE; gray; fresh; very weak; friable; (Salina Group - Unit F).	
			67.4				68		507		DOLOMITE; brownish gray; vuggy; micritic; slightly weathered; strong; hard; banded; 10% vugs up to 1"; w/shale bands up to 1" thick; (Salina Group - Unit F). fractured @ 67.4-68.4'	
PQ	12	1.6	1.0	0.4	63	25	68		506		0°, J, No, No, Pl, SR @ 68.4', 68.8'	
							69		506		highly fractured, gravel @ 69.0-72.4'	
			69.0				70		505			
							71		504		grades 20% vugs @ 71.0'	
PQ	13	5.0	2.4	0.0	48	0	71		503			
							72		503			
							73		502		grades no vugs @ 72.4' 0°, J, No, No, Pl, R @ 72.4' 85°, J, VN, No, No, Pl, SR @ 72.4-72.9' fractured @ 72.9-73.1'	
							74		501		90°, J, T, No, No, Pl, SR @ 73.1-73.6' 80°, J, T, No, No, Pl, SR @ 73.1-73.6' fractured @ 73.6-73.8'	
			74.0				75		500		CLAYSTONE; gray; highly weathered; w/dolomite bands; some dolomite bands are brecciated (poorly	

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# BORING LOG

BORING NO. P-399D

SHEET 6 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	14	5.0	3.0	0.0	60	0	75		499		indurated to indurated) or highly fractured; (Salina Group - Unit F).	Core box #5 starts @ 75.6'.	
							76		498				
							77		497				
							78		496				
							79		495				
			79.0				80		494				
PQ	15	4.8	2.7	0.0	56	0	81		493				
							82		492				
							83		491				
							84		490		DOLOMITE; argillaceous; dark gray; very fine grained; highly weathered; very weak; friable; banded; (Salina Group - Unit F).	Core barrel jammed @ 83.8'.	
			83.8				85		489		DOLOMITE; w/shale layers; highly weathered; 0.1'-0.2' dolomite fragments; (Salina Group - Unit F)		
							86		488				
PQ	16	5.3	2.9	0.4	55	8	87		487				
							88		486		SHALE; gray; highly weathered to residual; weak; friable; banded; (Salina Group - Unit F).	(a) PQ 16 drilled to 89.0'. After barrel was pulled, 1.1' of core still in hole. PQ 17 used to recover lost core. Recovered core added to PQ 16. After	
							89		485		SAND; gray; (Salina Group - Unit F).		
							90		485				

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# BORING LOG

BORING NO. P-399D  
SHEET 7 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

LOGGED BY Ohlmacher <i>GPO</i>		CHECKED BY Dogbey/Ohlmacher <i>GPO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	18	5.0	4.5	2.7	90	54	90		484		SHALE; gray; highly weathered to residual; weak; friable; banded; (Salina Group - Unit F).	barrel pulled for PQ 17 the hole tagged @ 87.4'. Grab sample of sand labeled Core 1.	
							91		483				
							92		482		grades w/dolomite bands @ 93.1'		
							93		481				
			94.0				94		480		fractured @ 94.0-96.3'	Core box #6 starts @ 94.0'.	
							95		479		grades no dolomite bands; dark gray @ 95.4'		
PQ	19	5.0	3.2	0.7	64	14	96		478		DOLOMITE; (Salina Group - Unit F). 60°, J, No, No, PI, SR @ 96.3-96.7' J, T, No, No, WA, R @ 96.9-97.4'		
							97		477				
							98		476		SHALE; (Salina Group - Unit F). highly fractured @ 97.4-99.0'		
							99		475		DOLOMITE; (Salina Group - Unit F). 30°, F, T, No, No, PI, Slk @ 97.8', 98.0'		
			99.0				100		474		SHALE; (Salina Group - Unit F). SAND; gray; (Salina Group - Unit F).	Water level @ 6.75' prior to drilling on 05/06/07.	
							101		473		SHALE; gray; (Salina Group - Unit F).		
PQ	20	5.0	3.1	0.8	62	16	102		472		DOLOMITE; gray; (Salina Group - Unit F). highly fractured @ 101.0-103.0'		
							103		471				
							104		470		SHALE; gray; highly weathered; (Salina Group - Unit F).		
							105		470			Bottom of boring @ 104.0'. Water level not	

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# BORING LOG

BORING NO. P-399D

SHEET 8 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2565.6'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 104.0 (feet)
SURFACE CONDITIONS Flat road surface adjacent to wetland		COORDINATE SYSTEM Plant	DATE START 05/03/07	DATE FINISHED 05/06/07

SAMPLING		LOGGED BY Ohlmacher <i>OO</i>	CHECKED BY Dogbey/Ohlmacher <i>GOO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								105					recorded.
										469			Piezometer
								106					installed on
										468			05/30/07.
								107					
										467			
								108					
										466			
								109					
										465			
								110					
										464			
								111					
										463			
								112					
										462			
								113					
										461			
								114					
										460			
								115					
										459			
								116					
										458			
								117					
										457			
								118					
										456			
								119					
										455			
								120					





# BLACK & VEATCH

# BORING LOG

BORING NO. P-399P  
SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Michigan		COORDINATES N 2569.1'	GROUND ELEVATION (DATUM) E 5228.7'	TOTAL DEPTH 7.0 (feet)
SURFACE CONDITIONS Edge of gravel road bed.		COORDINATE SYSTEM Plant	DATE START 05/01/07	DATE FINISHED 05/01/07

SAMPLING		LOGGED BY <i>GCC for Grainger</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
GP	1					1.6	0		574		Poorly graded <u>GRAVEL</u> with Sand (GP) - About 50% fine to coarse, angular, hard gravel, w/max. size 2"; about 45% coarse, angular sand; about 5% silt; pinkish gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/2 1/4" OD geoprobe continuous barrel sampler.
GP	2		3.0			0.0	1		573		<u>ORGANIC</u> Soil (OL) - About 95% low plasticity, low toughness, no dilatancy, no dry strength organic material; about 5% clay fines; reddish black; moist; no odor; no reaction w/HCL; homogeneous; (Peat).	Water encountered @ 2.0'.
GP	3		4.0			1.1	2		572		Lean <u>CLAY</u> (CL) - About 90% medium plasticity, medium toughness, no dilatancy, medium dry strength fines; about 10% fine to medium, angular to rounded, hard sand; pinkish gray; moist; strong reaction w/HCl; laminated; (Lacustrine Deposit).	PP = 0.5 TSF Collected water sample 6'-7'.
GP	4		4.5			0.7	3		571			
			6.0				4		570			
							5		569			
							6		568			
							7		567			
							8		566			
							9		565			
							10		564			
							11		563			
							12		562			
							13		561			
							14		560			
							15		560			



# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C1

SHEET 1 OF 9

CLIENT Detroit Edison	PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6363.4' E 4451.9'	GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)
SURFACE CONDITIONS Gravel parking lot near storage garage	COORDINATE SYSTEM Plant	DATE START 07/16/07
DATE FINISHED 09/21/07		

LOGGED BY SM Mass/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY SM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
												Well-graded GRAVEL with Sand (GW) - About 75% fine to coarse, angular to subangular, hard gravel w/ max. size 2"; about 25% fine to coarse, angular, hard sand; light olive brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
			6.0										
S	1					NR							Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
			10.0									grades light gray; moist; @ 10.0-12.0'	Discrete sample S01A collected @ 10.0-11.5'
S	2					NR							Water level @ 9.5' on 07/24/07; boring @ 12.7'.
			12.75										Discrete sample S02A collected @ 12.0-12.7'
SPT	3	5		1	2	3	0.9						Set nominal 6" temporary steel casing to 12.7'. Below 12.7' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud
												Well-graded GRAVEL with Silt and Sand (GW-GM) - About 65% fine to coarse, angular to subangular, hard gravel w/max. size 2"; about 25% fine to coarse, angular, hard sand; about 10% low plasticity, low toughness, rapid dilatancy, low dry strength fines; light olive brown; moist; weak reaction w/HCl; homogeneous; (Fill).	
													Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; gray; soft; moist;

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**BORING LOG**

BORING NO. CB-C1  
SHEET 2 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

SAMPLING		LOGGED BY <i>EM</i> Mass/Ang/Grainger	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
TW	4					1.5	565			homogeneous; (Lacustrine Deposit).	as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 1.75 TSF @ 14.0'.	
TW	5					1.8	562			Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; grayish brown; hard; moist; homogeneous; (Glacial Till).	PP > 4.5 TSF @ 17.5'.	
TW	6					1.2	559			grades olive brown @ 22.5'	PP > 4.5 TSF @ 20.0'.	
SPT	7	16	28	31	59	1.5	557			Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded to subangular sand; about 10% fine to coarse, subrounded to subangular gravel w/max. size 3/4", fractured w/2 hammer blows; dark green; very hard; moist; (Glacial Till).	TW-6 bent possibly on gravel or cobble.	
SPT	8	21	24	27	51	1.4	554				PP > 4.5 TSF @ 24.0'.	
SPT	9	4	5	6	11	0.5	552			Silty GRAVEL (GM) - About 75% fine to coarse, subangular to subrounded gravel w/max. size 1 1/2", fractured with 3 hammer blows; about 15% low plasticity, low toughness, slow dilatancy fines; about 10% medium to coarse, subangular to subrounded sand; gray; medium dense; wet; (Glacial Till).	PP > 4.5 TSF @ 26.5'.	

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# BORING LOG

BORING NO. CB-C1  
SHEET 3 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

SAMPLING		LOGGED BY <i>EM GLO for TBH</i> Mass/Ang/Grainger	CHECKED BY <i>TBH</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	10	5	17	50/3"	50+	0.5	30		550		Clayey GRAVEL (GC) - About 70% fine to coarse, subangular to subrounded gravel w/max. size 1 1/2"; about 20% high plasticity, high toughness, no dilatancy fines; about 10% medium to coarse, subangular to subrounded sand; dark gray; very dense; moist; (Weathered Rock).		
S	11		32.5			3.0	31		549				
			35.5				32		548		DOLOMITE; light brown & gray, mottled; micritic; fresh ; strong; hard; (Bass Islands Group).	Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Set nominal 6" temporary steel casing to 35.5'. Below 35.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 35.5'. No drilling fluid return @ 36.0'.	
PQ	1	5.0	4.5	3.8	90	76	33		547				
			40.5				34		546				
							35		545				
PQ	2	5.0	4.7	3.3	94	66	36		544		DOLOMITE; argillaceous; gray; micritic; slightly weathered; very strong; hard; w/dark gray partings; (Bass Islands Group). pitted @ 36.3-37.0', 39.4-39.7' 0°,B,N,No,No,Ir,R @ 37.2',38.7',38.8'		
							37		543				
							38		542				
							39		541		0°,B,N,No,No,Ir,R @ 39.1',39.3',39.7'		
							40		540				
							41		539		90°,J,T,H,No,Ir @ 40.5' 0°,B,N,No,No,Ir,R @ 40.8',41.9' fractured @ 41.2-41.5'		
							42		538		0°,B,N,No,No,Ir,R @ 42.0'		
							43		537		90°,J,T,H,No,Ir @ 42.7-43.4'		
							44		536		0°,B,N,No,No,Ir,R @ 43.6',43.7' 90°,J,T,H,No,Ir @ 43.8-44.1'		
							45		536		0°,B,N,No,No,Ir,R @ 44.4'		



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# BORING LOG

BORING NO. CB-C1  
SHEET 4 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

LOGGED BY <i>EDP GLO for</i> Mass/Ang/Grainger		CHECKED BY <i>DOG</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	3	5.0	5.0	1.0	100	20	45.5		535		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 85-90°, J,T,No,No,Ir,R @ 45.3-46.2', 46.3-50.5'	Core box #2 starts @ 45.5'	
									534		0°, B,UK,Su,Ir,SR @ 46.2'		
									533		pitted & vuggy @ 47.2-47.7'		
									532		fractured @ 47.8-48.3'		
									531		0°, B,UK,Su,Ir,SR @ 47.8'		
									530		85-90°, J,T,No,No,Ir,R @ 47.8-48.9'		
									529		0°, B,UK,Su,Ir,SR @ 48.7'		
									528		85-90°, J,T,No,No,Ir,R @ 49.3-50.0'		
									527		0°, B,UK,Su,Ir,SR @ 49.4'		
									526		60°, J,N,No,No,Ir,R @ 50.5'		
PQ	4	5.0	5.0	1.0	100	20	50.5		530		0°, B,UK,Su,Ir,SR @ 51.0', 51.2'	Core box #3 starts @ 55.5'. Water level @ 15.0' prior to drilling on 08/30/07.	
									529		DOLOMITE; light gray & dark gray (mottled); micritic; fresh; very strong; hard; w/argillaceous partings & stylolites; (Bass Islands Group).		
									528		very closely spaced (1"), parallel 90°, J,T,No,No @ 52.4-53.9'		
									527		fractured @ 53.3-53.9'		
									526		0°, B,UK,Su,Ir,SR @ 53.7', 53.9'		
									525		DOLOMITE; argillaceous; dark grayish brown; pitted; micritic; fresh; very strong; hard; (Bass Islands Group).		
									524		90°, J,T,No,No,Ir,R @ 53.9-57.2'		
									523		0°, B,UK,Su,Ir,SR @ 55.0'		
									522		0°, B,UK,Sp,PI,SR @ 56.1', 56.3'		
									521		0°, B,UK,Sp,PI,SR @ 59.1', 59.2', 59.4'		
PQ	5	5.0	5.0	2.8	100	56	55.5		525		BRECCIA; healed; pinkish gray; micritic; dolomite		

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# BORING LOG

BORING NO. CB-C1

SHEET 5 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

LOGGED BY <i>MA</i> Mass/Ang/Grainger		CHECKED BY <i>TD</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			60.5					60		520		matrix w/light gray micritic dolomite clasts; fresh; very strong; hard; w/stylolites; (Bass Islands Group). fractured w/anhydrite crystals 59.4-60.5'	
								61		519		85-90°, J,T,No,No,Ir,VR @ 61.2-64.2'	
								62		518		fractured @ 62.1-63.6', 64.9-65.5'	
PQ	6	5.0	5.0	1.7	100	34		63		517			
								64		516		60°, J,N,No,No,Ir,R @ 64.0'	
								65		515		DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90°, J,T,No,No,Ir,VR @ 65.5-66.7'	Core box #4 starts @ 64.5'
			65.5					66		514			
								67		513		DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; massive w/few dark gray, argillaceous partings; (Bass Islands Group). 0°, B,N,No,No,WA,R @ 66.7'	
PQ	7	5.0	5.0	4.7	100	94		68		512			
								69		511		60°, J,T,No,No,PI,R @ 69.3'	
								70		510			
			70.5					71		509		BRECCIA; healed; pinkish gray; micritic; dolomite matrix; w/light gray, micritic dolomite clasts; fresh; strong; hard; contorted bedding & stylolites; (Bass Islands Group). 0°, B,Ci,Fi @ 70.5'	
								72		508		90°, J,T,No,No,Ir,VR @ 71.8-73.7'	
								73		507		0°, B,N,No,No,WA,SR @ 72.1', 72.3'	
PQ	8	5.0	5.0	1.7	100	34		74		506		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/argillaceous partings; (Bass Islands Group). 0°, B,N,No,No,WA,SR @ 73.7'	Core box #5 starts @ 73.7'
								75		506		fractured @ 74.1-75.5'	
												10°, B,T,UK,Su,PI,SR @ 74.1', 74.7', 74.9'	

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# BORING LOG

BORING NO. CB-C1  
SHEET 6 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

LOGGED BY <i>Mass/Ang/Grainger</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	9	5.0	5.0	2.7	100	54	75		505		60° J,T,No,No,Ir,R @ 75.2'		
							76		504		DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group). 10° B,T,UK,Su,PI,SR @ 75.3',75.4' 0-5° B,UK,Sp,Ir,R @ 75.6',76.7' fractured @ 76.0-76.9'		
							77		503		30° J,UK,Sp,Ir,R @ 77.3'		
							78		502		0-5° B,UK,Sp,Ir,R @ 78.2' fractured @ 78.2-78.3'		
							79		501		fractured @ 79.4-80.1' 0-5° B,UK,Sp,Ir,R @ 79.4'		
							80		500				
PQ	10	5.0	4.5	2.7	90	54	81		499		60° J,T,No,No,Ir,VR @ 80.5' 5° B,N,No,No,Ir,R @ 80.7'		
							82		498		5° B,N,No,No,Ir,R @ 81.4'		
							83		497		5° B,N,No,No,Ir,R @ 82.0'		
							84		496		70° J,N,Ca,Pa,PI,R @ 82.5'		
							85		495				
PQ	11	2.5	2.5	1.8	100	72	86		494			Core box #6 starts @ 85.5'	
							87		493				
							88		492		fractured @ 87.7-88.4		
							89		491		0-5° B,N (solutioned) @ 88.6'		
PQ	12	2.5	2.3	1.3	92	52	90				0-5° B,N,No,No,Ir,R @ 89.4' 85-90° J,N,No,No,Ir,VR @ 89.4-90.5'		

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

LOGGED BY <i>TR for EJR GLO for Mass/Ang/Grainger</i>		CHECKED BY <i>TR for Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			90.5				90					
PQ	13	2.6	2.6	0.6	100	23	91				90°, J, N, No, No, Ir, R @ 90.5-92.3'	Core box #7 starts @ 90.5'
							92				dolomite; mottled gray & dark gray @ 90.8-91.7'	
							93				0°, B, N, No, No, Ir (solutioned) @ 91.3', 91.6', 91.7', 92.0', 91.7'	
							94				SHALE; gray; fissile; highly weathered; very weak; low hardness; (Bass Islands Group).	
							95				DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).	
PQ	14	2.4	2.4	1.6	100	67	96				0°, B, N, No, No, Ir (solutioned) @ 93.1'	Core barrel blocked.
							97				fractured @ 94.5-95.0'	
							98				SHALE; dark gray; fissile; slightly weathered; weak; medium hard; (Bass Islands Group).	
							99				0°, B, N, No, No, Ir (solutioned) @ 94.5', 94.8'	
							100				DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).	
PQ	15	5.0	4.8	2.7	96	54	101				75° J, T, No, No, Ir, VR (slightly weathered) @ 95.2-95.9'	
							102				0-10° B, N, No, No, Ir, R (slightly weathered) @ 95.7', 95.5'	
							103				85-90° J, T, No, No, Ir, R @ 95.8-97.0'	
							104				50°, J, T, Ca, Fe, PI, SR @ 96.5'	
							105				slightly weathered, fractured @ 97.3-97.8'	
											50°, J, T, Ca, Fe, PI, SR @ 97.7'	
											slightly weathered, fractured @ 98.7-98.9'	
											0-10° B, N, No, No, Ir, R (slightly weathered) @ 99.9'	
											85° J, T, No, No, Ir, R @ 100.5-101.0'	Core box #8 starts @ 100.5'
											50°, J, T, Ca, Fe, PI, SR @ 101.3'	
											slightly weathered, fractured @ 103.8'	
PQ	16	5.0	5.0	2.7	100	54	104				DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; hard; w/stylolites & argillaceous partings; (Bass Islands Group).	
											0-5° B, UK, Ca, slightly weathered @ 103.8', 104.9',	





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BORING LOG

BORING NO. CB-C1 SHEET 8 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6363.4'	GROUND ELEVATION (DATUM) E 4451.9'	TOTAL DEPTH 128.0 (feet)
SURFACE CONDITIONS Gravel parking lot near storage garage		COORDINATE SYSTEM Plant	DATE START 07/16/07	DATE FINISHED 09/21/07

LOGGED BY <i>Mass/Ang/Grainger</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							105					105.0'	
			105.5									90° J,T,No,No,Ir,R @ 105.5-106.2', 107.0-107.6' 0° B,T,No,No,PI,SR @ 105.5', 105.6', 105.8', 106.2', 106.3', 106.6'	
												0° B,T,No,No,PI,SR @ 107.0'	
												0° B,T,No,No,PI,SR @ 107.4', 107.6'	
PQ	17	5.0	4.7	2.0	94	40	108					argillaceous seams w/calcite crystals @ 108.0'	
												0° B,T,No,No,PI,SR @ 108.2'	
												0° B,T,No,No,PI,SR @ 108.6'	
												argillaceous seams w/calcite crystals @ 109.0', 109.4'	
												0° B,T,No,No,PI,SR @ 109.6'	
			110.5									<u>DOLOMITE</u> ; crystalline; gray; micritic; fresh; very strong; hard; (Bass Islands Group). 60° J,N,No,No (slightly weathered) @ 110.5'	Core box #9 starts @ 110.5'
												0° B,T,No,No,WA,SR @ 110.9', 111.1', 111.2', 111.8', 112.1'	
												85-90° J,T,No,No,Ir,R @ 111.2-112.1', 111.8-112.5', 112.7-113.2'	
PQ	18	5.0	4.7	3.1	94	62	113					0° B,T,No,No,WA,SR @ 113.5'	
												85-90° J,T,No,No,Ir,R @ 114.1-114.7'	
												0° B,T,Ca,Sp,WA,SR @ 114.1'	
												30° J,T,Ca,Sp,PI,SR @ 114.8'	
			115.5									pyrite & black material filling cracks @ 116.5', 117.9'	
												60° J,N,No,No (slightly weathered) @ 116.7-117.2'	
PQ	19	5.0	5.0	2.1	100	42	118					0° B,N,Ci,Sp,Ir,R @ 118.2', 118.6'	
												85-90° J,T,Ci,Sp,Ir,SR @ 118.2-119.3'	
												fractured @ 118.6-119.3'	
												<u>DOLOMITE</u> ; argillaceous; dark grayish brown; fresh; very strong; hard; w/stylolites & argillaceous partings; (Bass Islands Group).	



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# BORING LOG

BORING NO. CB-C1  
SHEET 9 OF 9

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6363.4' E 4451.9'				GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot near storage garage				COORDINATE SYSTEM Plant				DATE START 07/16/07				
LOGGED BY Mass/Ang/Grainger				CHECKED BY Dogbey/Bonnie				APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			120.5				120		460		10°,B,N,An,Fi @ 119.3'	
PQ	20	2.5	2.5	2.2	100	88	121		459		70°,J,N,No,No,Ir,R (slightly weathered) @ 120.9', 122.7'	Core box #10 starts @ 120.5'.
			123.0				122		458		80°,J,N,No,No,Ir,R (slightly weathered) @ 122.7'	
							123		457		10°,B,N,Cl, weathered @ 122.8'	
							124		456		90°,J,T,No,No,Ir,VR @ 124.2-125.7'	
PQ	21	5.0	4.3	2.1	86	42	125		455		DOLOMITE; interbedded gray & very dark gray; micritic; slightly weathered; strong; hard; interbedded w/bands of SHALE; weak, low hardness fissile; (Salina Group - Unit F).	
							126		454		5°,B,T,No,No,PI,R @ 125.2', 125.8', 126.0', 126.4'	
							127		453		CLAYSTONE; dark gray; micritic; highly weathered; weak; low hardness; interbedded w/partings & seams of micritic dolomite; (Salina Group - Unit F).	
							128		452			Bottom of boring @ 128.0'. Water level not recorded @ completion of drilling. Boring backfilled w/ bentonite chips on 09/21/07.
							129		451			
							130		450			
							131		449			
							132		448			
							133		447			
							134		446			
							135		446			



# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2  
SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Grainger	CHECKED BY TB Dogbey/Bonnie	APPROVED BY EM Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							0						
							1						
							2						
							3						
							4						
							5						
							6						
			6.0				7						
							8						
S	1					NR	9						
							10						
			10.0				11						
							12						
							13						
S	2					NR	14						
							15						

Silty COBBLES with Sand - About 60% angular, very hard cobbles w/max. size 9"; about 20% fine to coarse, spherical to elongated, hard sand; about 20% fines; dark gray; strong reaction w/HCl; homogeneous; (Fill).

Below 6.0' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler.

Discrete sample collected @ 11.0-12.0'.

Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; gray; firm; moist; no reaction w/HCl; (Lacustrine Deposit).

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY TB <i>EA GLO for Bonnie/Ang/Grainger</i>	CHECKED BY TB <i>im fev Dogbey/Bonnie</i>	APPROVED BY <i>em Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
TW	3		16.0			1.5	15		565		grades about 96% LL=51, PL=20 fines; about 4% sand; trace fine to coarse, subrounded gravel w/max. size 1/2"; fractured w/2 hammer blows	Below 15.5' continued w/NWJ rod, 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 2.0 TSF @ 18.0'
TW	4					1.6	16		564		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; trace fine, subrounded gravel w/max. size 1/2"; light olive brown; hard; moist; (Glacial Till).	PP = 2.0 TSF @ 18.0'
TW	5					1.4	17		563		grades olive brown	PP = 4.5 TSF @ 20.5'
SPT	6	19	30	25	55	1.8	18		562		Lean CLAY with Gravel (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subangular to subrounded, hard gravel w/max. size 1"; dark gray; very hard	PP > 4.5 TSF @ 22.7'. PP > 4.5 TSF @ 24.0'
SPT	7	18	20/0"		50+	0.6	19		561		DOLOMITE; light brownish gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	PP > 4.5 TSF @ 26.3'
S	1		27.5			3.2	20		560		mottled light gray & dark gray @ 28.5-28.7'	Below 27.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							21		559			
							22		558			
							23		557			
							24		556			
							25		555			
							26		554			
							27		553			
							28		552			
							29		551			
							30		550			

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY TB EA GEC for Bonnie/Ang/Grainger	CHECKED BY TB EA for Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							30		550				
PQ	1	0.3	30.7 0.3 31.0	0.0	100	0	31		549			DOLOMITE; crystalline; grayish brown; micritic; slightly weathered; very strong; hard; thick bedded w/stylolites; (Bass Islands Group).	Sample SC-1 stored in box labeled S1. Set nominal 6" casing to 30.5'. Below 30.7' continued w/triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.7'
							32		548			0°,B, fractured @ 31.9-32.0'	
PQ	2	5.0	5.0	4.1	100	82	33		547			0°,B,N,Pa,PI,SR @ 33.2', 33.9' 90° intersecting,J (70° intersection),T,No,No,Ir,VR @ 33.2-34.7'; partial Ca,Fi @ 34.2-34.6'	
							34		546				
							35		545			85°-90°,J,T,No,No,Ir,VR @ 34.6-36.7' pitted @ 34.9-35.5'	
							36		544			0°,B,MW (solutioned) @ 35.9'	
			36.0				37		543				
PQ	3	5.0	4.9	1.5	98	30	38		542			0°,B,N,No,No,PI,Ir,SR @ 37.5', 38.2', 38.5', 38.8' fractured zone 37.5-41.0' due to intersecting vertical joints & bedding	
							39		541			0°,B,N,No,No,PI,Ir,SR @ 39.1', 39.3', 39.5'	
							40		540			85-90°,Two joints (70° intersection),T,No,No,Ir,VR @ 39.6-42.5' 0°,B,N,No,No,PI,Ir,SR @ 39.7', 39.9', 40.0',40.3'	Core box #2 starts @ 39.5'.
							41		540			0°,B,N,No,No,PI,Ir,SR @ 40.6', 40.7', 40.9'	
			41.0				42		539				100% drilling fluid loss @ 41.0'.
							43		538			0°,B,N,No,No,PI,SR @ 42.0', 43.2', 43.3' 50°,J,T,No,No,Ir,SR @ 42.5'	
PQ	4	5.0	5.0	4.5	100	90	44		537			85°,J,T,No,No,Ir,R @ 42.9-43.6', 49.8' pitted @ 43.0-43.2', 45.0-45.5'	Drill chatter @ 43.0-44.0'.
							45		536			stylolites increasing frequency @ 43.8-46.0'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2

SHEET 4 OF 19

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6353.2'					E 4517.1'					580.5 ft (NAVD 88)		271.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking area										Plant					07/18/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										EVA GCO for Bonnie/Ang/Grainger					Dogbey/Bonnie					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
							45		535												
			46.0				46		534		fractured @ 46.0-47.2' 85-90°, J, T, No, No, Ir, VR @ 46.0-49.2'; intersected @ 70°, w/85-90° J, T, No, No, VR @ 46.0-48.5' 10°, B, N, No, No, Ir, R @ 46.5', 47.1', 47.8', 48.5'										
PQ	5	5.0	5.0	0.5	100	10	48		532		DOLOMITE; light brownish gray & gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group). 10°, B, N, No, No, Ir, R @ 49.2', 49.5', 50.0' 85-90°, J, T, No, No, Ir, VR @ 49.5-50.0'; 50.5-51.0' fractured @ 49.5-51.0'	Core box #3 starts @ 49.2'									
			51.0				51		531												
PQ	6	5.0	5.0	4.6	100	92	52		529		DOLOMITE; argillaceous; dark brownish gray; micritic; very strong; hard; thick bedded; fossiliferous; pitted w/stylolites & argillaceous partings; (Bass Islands Group).										
							53		528												
							54		527		0°, B, N, UK, Fi, PI, SR @ 53.5', 53.6', 53.8'										
							55		526												
							56		525												
			56.0				57		524		0°, B, N, UK, Fi, PI, SR @ 56.3', 56.5'										
							58		523		DOLOMITE; light brownish gray; crystalline; fresh; very strong; hard; w/zones of oolites; (Bass Islands Group). 90°, J, T, partly healed, anhydrite, Pa, Ir, VR @ 57.8-59.3'	Core box #4 starts @ 58.0'									
PQ	7	5.0	5.0	3.5	100	70	59		522		20°, B, N, No, No, PI, R @ 58.4', 58.6', 58.7', 58.9', 59.3'										
							60		521		40°, J, N, No, No, PI, R @ 59.3'										
									521		DOLOMITE; gray; micritic; fresh; very strong; hard;										

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2  
SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 580.5 ft (NAVD 88) 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY TB <i>EA</i> <i>GC</i> for Bonnie/Ang/Grainger		CHECKED BY <i>TA</i> <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							60					medium bedded; w/argillaceous parting & stylolites; (Bass Islands Group).	
			61.0				61					0°,B,N,UK,Su,PI,SR @ 61.2', 61.4', 61.6', 61.7', 62.3'	
							62					0°,B,N,UK,Su,PI,SR @ 62.6', 62.9', 63.0'	
PQ	8	5.0	5.0	4.3	100	86	63						
							64					DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; very strong; hard; massive; (Bass Islands Group).	
							65					0°,B,MW,CI(black shale),Sp,PI,R @ 63.5'	
			66.0				66						
							67					DOLOMITE; white & gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group).	
							68					contact @ 66.5' convoluted B,MW,CI,Fi,WA,R, @ 66.8' fractured @ 67.0-67.2'	Core box #5 starts @ 67.3'.
PQ	9	5.0	4.9	4.3	98	86	69					DOLOMITE; argillaceous; light gray; fresh; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). convoluted bedding @ 68.2-69.3'	
							70						
			71.0				71					0°,B,N,No,No,PI,R @ 71.2', 71.4', 71.7'	
							72						
							73					0°,B,N,No,No,PI,R @ 72.4', 72.5', 73.0'	
							74					85-90°,J,T,No,No,Ir,VR @ 73.3-74.8' fractured @ 73.3-74.9'	Core trying to block @ 73.0-75.0'. Drill chatter @ 73.0-75.0'.
PQ	10	5.0	4.6	1.6	92	32	75					DOLOMITE; crystalline; gray; fresh; extremely strong; hard; massive; (Bass Islands Group). 0°,B,N,No,No,PI,R @ 74.2', 74.5', 74.6', 74.7', 74.6' 85-90°,J,T,anhydrite,Pa,Ir,VR @ 74.5-76.0' (parallel	

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2  
SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 580.5 ft (NAVD 88) 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							75					set) pitted @ 74.9-75.4'	
							76					solutioned fractures @ 76.4'	
			76.0				77					BRECCIA; healed; gray, micritic, dolomite clasts (1- >3"); in a pale brown micritic dolomite matrix; some black shale runners fill cracks & w/anhydrite filling fractures & pits/vugs; (Bass Islands Group). convoluted contact @ 76.5'. solutioned fractures @ 77.0', 77.6'	Core box #6 starts @ 77.6'.
PQ	11	5.0	5.0	4.2	100	84	78						
							79						
							80						
							81						
			81.0				82					pitted @ 82.0-84.6'	
							83					weathered convoluted fractures @ 83.0'	
PQ	12	5.0	4.9	3.3	98	66	84					weathered convoluted fractures @ 84.0', 84.4' weathered, near vertical fracture @ 84.4-86.6'	
							85						
							86						
			86				87					weathered convoluted fractures @ 86.4'	Core box #7 starts @ 86.0'.
							88					DOLOMITE; light gray; crystalline; fresh; very strong; hard; banded w/stylolites; (Bass Islands Group). 0-5°, B,N,UK,Su,WA,R @ 86.8', 87.1', 87.6' 80-90°, J,T,No,No,Ir,VR @ 87.2-89.1', 87.4-88.9' B,W (solutioned) @ 87.8', 88.2'	
PQ	13	5.0	4.8	1.0	96	20	89					¼" clay filled solution feature along bedding; clay (CL); gray; very soft; moist; @ 88.3' 70°, J,N,No,No,Ir,R @ 88.5', 89.5'	
							90						

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2  
SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY Bonnie/Ang/Grainger	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	14	5.0	5.0	2.4	100	48	90		490		0-5°, B,N,UK,Su,WA,R @ 90.0', 90.6'		
			91.0				91		489		SHALE; black; slightly weathered; low hardness; no reaction w/HCl; (Bass Islands Group).		
							92		488		DOLOMITE; dark gray; micritic; fresh; very strong; hard; (Bass Islands Group).		
							93		487		0°, B,N,UK,Sp,Ir,R @ 91.6', 92.1', 92.3'		
							94		486		DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded w/stylolites; (Bass Islands Group).		
							95		485		20°, J,T,No,No,PI,SR @ 92.8', 92.9'		
							96		484		0°, B,N,UK,Sp,Ir,R @ 93.3', 94.1'		
							97		483		60°, J,MW (solutioned) @ 93.3'		
							98		482		85-90°, J,N,anhydrite,Pa,Ir,R @ 93.5-94.2'		
							99		481		20°, J,T,No,No,PI,SR @ 94.9'		
							100		480		60°, J,N,No,No,PI,SR @ 95.9'		
							101		479		85-90°, J,T,No,No,Ir,R @ 96.3-97.5'		
							102		478		0°, B,N,UK,Su,Ir,VR @ 97.2', 98.2'		
							103		477		SHALE; dark grayish brown; highly weathered; (Clay); medium plasticity, medium toughness, no dilatancy; hard; moist; no reaction w/HCl; (Bass Islands Group).		
							104		476		DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group).		
							105		475		20°, J,N (solutioned) @ 97.7', 98.2'		
											healed brecciated zones @ 98.2-98.7', 99.7-100.5'		
											0°, B,N,UK,Su,Ir,VR @ 100.5'		
											¼" Clay (CL); medium plasticity, medium toughness, no dilatancy; soft; moist; no reaction w/HCl @ 100.7'		
											85-90°, J,T,No,No,Ir,VR @ 100.8-101.4', 101.2-102.3'		
											0°, B,N,UK,Sp,PI,R @ 101.5', 101.6', 101.7', 102.0'		
											fractured @ 102.3-102.5'		
											DOLOMITE; argillaceous; very dark gray; fresh; very strong; hard; w/within argillaceous partings; (Bass Islands Group).		
											0°, B,N,anhydrite,Fi @ 102.8'		
											0°, B,N,UK,Sp,PI,R @ 103.6', 104.3'		
											fractured @ 103.8-103.9'		
											fractured @ 104.6'		

Core box #8 starts @ 95.8'. Water level @ 18.0' prior to drilling on 07/30/07.

Core box #9 starts @ 104.8'.

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY EUA Geofev Bonnie/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							105					0°,B,N,UK,Sp,PI,R @ 105.2'	
							106					fractured @ 106.0-106.5' 90°,J,T,No,No,Ir,R @ 106.0-107.3'	
PQ	17	5.0	5.0	1.7	100	34	108					DOLOMITE; gray; crystalline; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group). 0°,B,N,No,No,PI,SR @ 106.4', 106.5', 106.7', 107.1', 107.3', 107.35', 108.2' fractured @ 106.7-107.1', 107.9-108.2' 90°,J,T,No,No,Ir,R @ 107.4-108.9' 80°,J,T,No,No,Ir,R @ 108.2-108.9'	
							109					0°,B,N,No,No,PI,SR @ 109.1', 109.2'	
							110					80°,J,T,No,No,Ir,R @ 110.0-111.0', 110.0-111.1' 90°,J,T,No,No,Ir,R 110.0-112.0' 0°,B,N,No,No,PI,SR @ 110.0', 110.2', 110.6' fractured @ 110.0-110.2'	
							111					0°,B,N,UK,Sp,Ir,VR @ 111.1', 111.5', 111.8'	
							112					0°,B,MW (solutioned) @ 111.7' 0°,B,MW (solutioned) @ 112.1'	
PQ	18	5.0	5.0	3.0	100	60	113					0°,B,MW (solutioned) @ 113.7'	
							114						Core box #10 starts @ 114.0'.
							115						
							116					20°,J,MW, 1/4" shale parting; gray; highly weathered; comparable to medium plasticity, medium toughness, no dilatancy; hard soil fines @ 115.3-115.4' 80°,J,T,Ca,H,Ir,R @ 115.3-117.1'	
							117					DOLOMITE; argillaceous; very dark grayish brown; fresh; very strong; hard; massive; pitted; w/stylolites; (Bass Islands Group). 90°,J,T,No,No,Ir,VR @ 116.0-117.3'	
PQ	19	5.0	4.8	3.5	96	70	118						
							119					CLAY (CL); gray; medium plasticity, medium toughness, no dilatancy; hard; (Bass Islands Group). 0-10°,B,MW (solutioned) @ 118.7'	Soft drilling @ 119.0'.
							120					DOLOMITE; argillaceous; very dark grayish brown;	

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C2

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							120					fresh; very strong; hard; massive; pitted; w/stylolites; (Bass Islands Group). 75° J,N,No,No,Ir,R @ 119.2' 10° B,N,anhydrite,Fi @ 119.2' 10° B,N,No,No,Ir,R @ 119.6', 119.7' 0-10° B,MW (solutioned) @ 120.3' healed brecciated @ 120.5-122.1' 75° J,N,No,No,Ir,R @ 121.4-122.1'	
PQ	20	5.0	3.8	1.1	76	22	121					50° J,N,No,No,Ir @ 122.6' (slightly weathered) 0° B,N,No,No,PI,SR @ 123.0', 123.5', 123.6', 123.8', 124.0', 124.1', 124.3' clay band (CL); gray; medium plasticity, medium toughness, no dilatancy; hard; @ 123.3-123.4'	Core box #11 starts @ 123.0'
							122					DOLOMITE; micritic; (Salina Group - Unit F).	Core loss @ 124.5-126.0'
PQ	21	5.0	5.0	0.5	100	10	123					DOLOMITE; argillaceous; gray; slightly weathered to fresh; strong to very strong; hard; w/band of grayish brown; pitted; very fine grained dolomite; w/partings & nodules of anhydrite; (Salina Group - Unit F). Clay (CL); medium plasticity, medium toughness, no dilatancy; soft; @ 126.0-126.2' fractured @ 126.2-127.1' 0° B,N,No,No,Ir,R @ 126.4', 126.6', 127.0', 127.7' 70° J,N,No,No,Ir,R @ 127.4-128.4' 0° B,N,No,No,Ir,R @ 128.1', 128.2', 128.4' fractured @ 128.2-128.7' 70° J,N,No,No,Ir,R @ 128.7-129.5' 0° B,N,No,No,Ir,R @ 128.8', 129.3', 129.6'	
							124					fractured @ 130.2-131.0' 0° B,N,No,No,Ir,R @ 130.4', 130.5'	
PQ	22	5.0	4.2	1.9	84	38	125					90° J,N,No,No,Ir,R @ 132.2-132.9' 0° B,N,No,No,Ir,R @ 132.2', 132.7', 0° B,N,Ir,R @ 132.9', 133.1', 134.4'	Core loss @ 131.1-132.3'
							126					fracture zone @ 134.1-134.3'; fossiliferous; grayish brown limestone	Core box #12 starts @ 134.1'

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# BORING LOG

BORING NO. CB-C2

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY TB <i>GA Goofer</i> Bonnie/Ang/Grainger		CHECKED BY <i>EM</i> TB Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							135					DOLOMITE; dark gray; micritic (Salina Group - Unit F)		
							136					CLAYSTONE; dolomitic; gray; slightly weathered; strong to weak; moderately hard; (Salina Group - Unit F). 0°,B,N,No,No,Ir,R @ 134.8', 135.0', 135.1'		
PQ	23	5.0	4.4	0.9	88	18	138					LIMESTONE; argillaceous; dark gray; very fine grained; moderately hard to weak; interbedded w/gray dolomitic claystone; bedding contorted; (Salina Group - Unit F). 0°,B,N,No,No,Ir,R @ 137.1', 137.5', 138.2'		
							139					CLAYSTONE; dolomitic; gray; slightly weathered; strong; moderately hard; thick bedded; (Salina Group - Unit F). fractured @ 138.9-139.9', 140.2-140.4' 90°,J,N,No,No,Ir,SR @ 138.9-139.9'		
							141					10°,B,N,No,No,PI,R @ 141.3', 141.7'		
PQ	24	5.0	4.8	0.5	96	10	143					LIMESTONE; argillaceous; gray; fine grained to very fine grained; moderately weathered; weak to moderately strong; moderately hard; pitted; (Salina Group - Unit F). fractured/gravelly @ 143.5-144.7'		
							144					highly weathered @ 144.5-144.7'	Core box #13 starts @ 144.2'.	
							145					DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°,J,T,No,No,PI,SR @ 144.9-147.0'		
							146							Sampler frequently jammed @ 146.0-148.0'.
PQ	25	5.0	2.5	0.0	50	0	147					CLAYSTONE; dolomitic; gray; slightly to moderately weathered; weak; moderately hard; w/softer gravelly zones & thin clayey dolomite layers; (Salina Group - Unit F).		
							148							
							149							
							150							

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# BORING LOG

BORING NO. CB-C2

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	26	5.0	4.0	1.6	80	32	150		430				
							151		429			CLAYSTONE; calcareous; gray; slightly to moderately weathered; moderately strong; low to moderately hard; w/thin limestone & dolomite bands; (Salina Group - Unit F). dolomite band; clayey @ 152.0-152.2'	
							152		428				
							153		427				
							154		426			0° B, soft; fractured @ 154.7-154.9'	Discrete sample box 13A collected @ 153.5-154.4'
							155		425			0° B, N, No, No, Ir, R @ 155.2'	
							156		424			DOLOMITE; (Salina Group - Unit F).	
							157		423				
PQ	27	5.0	3.0	0.0	60	0	158		422			CLAYSTONE; calcareous; gray; slightly to moderately weathered; moderately strong; low to moderately hard; w/thin limestone & dolomite bands; (Salina Group - Unit F). dolomite band @ 158.5-158.7'	Core box #14 starts @ 158.5'.
							159		421			dolomite band @ 159.1-159.4'	
							160		420				
							161		419			fractured @ 161.4-161.7'	Water level @ 17.3' prior to drilling on 07/31/07.
							162		418			0-5° B, W, No, No @ 162.3'	
							163		417			fractured @ 162.7-162.9'	
PQ	28	5.0	3.0	1.2	60	24	164		416			dolomite band; gray; micritic @ 163.4-163.6'	
							165		415				

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# BORING LOG

BORING NO. CB-C2

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 580.5 ft (NAVD 88) 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY <i>EM Meyer</i> Bonnie/Ang/Grainger		CHECKED BY <i>EM Meyer</i> Dogbey/Bonnie	APPROVED BY <i>EM Meyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							165						
							166						
PQ	29	3.3	3.2	1.2	97	36	167						
							168						
							169						
PQ	30	1.7	1.6	0.8	94	47	170						
							171						
PQ	31	3.0	2.5	0.4	83	13	172						
							173						
							174						
PQ	32	2.0	0.8	0.0	40	0	175						
							176						
							177						
PQ	33	4.0	2.1	0.0	52.5	0	178						
							179						
							180						

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165.0  
CLAYSTONE; gray; slightly to moderately weathered; weak to moderately strong; low hardness; w/ thin partings to bands of gray, fine grained limestone & bands of gray, micritic dolomite; (Salina Group - Unit F).

169.3  
dolomite partings to bands @ 169.0-169.5'

172.1  
BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).

174.0  
dolomite partings to bands @ 170.5-170.7'

175.2  
DOLOMITE; micritic; fractured (high angled joints & bedding planes); (Salina Group - Unit F).

177.0  
BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).

179.0  
DOLOMITE; micritic; fractured; (Salina Group - Unit F).

Material swelling in core barrel shoe.

Core box #15 starts @ 171.0'.

Prior to run 33, pulled back 10'; caved 0.5 to 1.0'. Washed back down to 176.0'.



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# BORING LOG

BORING NO. CB-C2

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY TB ECA GCO for Bonnie/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	34	1.0	1.0	0.0	100	0	180		400		SAND; fine to coarse grained; (Salina Group - Unit F).	Core barrel jammed @ 180.0'.	
							181		399		CLAYSTONE; gray; completely weathered; w/micritic dolomite fragments & sand; properties comparable to: gravelly lean clay - about 70% medium plasticity, medium toughness, no dilatancy soil fines; about 20% fine to coarse, angular, hard gravel w/max. size 2"; about 10% fine to coarse, angular, hard sand; (Salina Group - Unit F).	Drill chatter @ 180-181'.	
PQ	35	5.0	2.7	0.0	54	0	183		397		BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).		
							184		396		micritic dolomite, fractured @ 184.1-184.3'		
							185		395			Core box #16 starts @ 185.0'.	
							186		394				
							187		393				
PQ	36	5.0	3.8	0.0	76	0	188		392		30°, J, PI, SR @ 187.9'	Prior to run 36, pulled back 10'. Caved about 1.0'; washed back down to 186.0'.	
							189		391				
							190		390		BRECCIA; light brownish gray; partially healed calcareous clay & calcite matrix; w/angular dolomite clasts; max. size 3"; (Salina Group - Unit F).		
							191		389		60°, J, No, No, PI, SR @ 191.1'		
							192		388				
							193		387		grades w/clasts maximum size 1" @ 192.6'		
PQ	37	5.0	4.3	0.9	86	18	194		386				
							195		386				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY TB <i>GA</i> <i>Geo for</i> Bonnie/Ang/Grainger	CHECKED BY <i>GA</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								195		385			
			196.0					196		384		DOLOMITE; gray; micritic; fresh; very strong; hard; thin bedded; (Salina Group - Unit F). 0° B,N,No,No,PI,R @ 195.2', 195.3', 195.4' 90° J,No,No,PI,R @ 195.2-196'	Core loss @ 196.0-198.0'
PQ	38	5.0	2.2	0.0	44	0		197		383		DOLOMITE; gray; micritic; slightly weathered; strong; thin bedded; interbedded w/claystone; (Salina Group Unit F).	Prior to run 38, pulled back 10'. Some cave-in. Washed back down to 196.0'.
								198		382		soft; weathered @ 198.0-199.0'	
								199		381			
								200		380		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; fossiliferous; (Salina Group - Unit F). 20° B,N,PI,R @ 200.4', 200.5'	Core box #17 starts @ 200.0'
			201.0					201		379		LIMESTONE; dark grayish brown; pitted & vuggy; crystalline; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F).	
								202		378			
PQ	39	5.0	3.6	0.9	72	18		203		377		60° J,N,No,No,Ir,VR @ 203.1' 90° J,T,No,No,Ir @ 203.4-204.0' dolomite; micritic; light gray; fossiliferous; fractured @ 203.7-204.1'	
								204		376		BRECCIA; light gray; claystone matrix; w/light gray dolomite clasts; hard; cemented; (Salina Group - Unit F).	
								205		375		LIMESTONE; dark grayish brown; pitted & vuggy; crystalline; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 0° B,Ir (solutioned) @ 205.3', 205.8'	
			206.0					206		374			
								207		373			
PQ	40	5.0	3.8	1.9	76	38		208		372		BRECCIA; calcareous clay matrix; light gray; cemented; w/light brownish gray; micritic dolomite clasts; maximum size 2"; angular; (Salina Group - Unit F).	
								209		371		fractured @ 209.4-209.8', 210.1-210.2'	
								210					

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# BORING LOG

BORING NO. CB-C2

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Grainger	CHECKED BY TB Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							210				fractured @ 210.1-210.2'	
							211					Core box #18 starts @ 211.0'.
PQ	41	5.0	5.0	3.8	100	76	211.0				DOLOMITE; light gray; micritic; slightly weathered; strong; hard; closely spaced horizontal & vertical fractures filled w/gray limestone; (Salina Group - Unit F).	
							212					
							213				DOLOMITE; brecciated, healed; (Salina Group - Unit F).	
							214				LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh to slightly weathered; strong; hard; w/vugs filled w/claystone; light brownish gray; highly weathered (some claystone washed away); (Salina Group - Unit F).	
							215					
							216				DOLOMITE; crystalline; light brownish gray; micritic; slightly weathered; strong; hard; w/limestone interlayed in upper 1.0'; (Salina Group - Unit F). gradational contact over 1.0' @ 214.2'	
							217				0°, B,N,UK,Sp,PI,SR @ 214.4', 214.5', 214.9', 215.4', 216.0', 216.1', 216.6', 216.9'	
							218				85-90°, J,T,Ca,H,Fi,Ir @ 216.0-217.0'	
							219				60°, J,N,PI,SR @ 217.2-217.6', 218.2'	
PQ	42	5.0	3.1	0.4	62	8	216.0				0°, B,N,UK,Sp,PI,SR @ 217.5', 217.8', 218.0', 218.3'	
							220				60°, J,PI,SR @ 217.9-218.1'	
							221				fractured zone (core loss) @ 218.3-220.8'	
							222					
							223				LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	Core box #19 starts @ 221.0'. Water level @ 23.4' on 08/01/07.
							224				DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F).	
							225				fractured zones @ 222.7-223.1', 223.4-223.9'	
PQ	43	5.0	4.5	0.9	90	18	221.0				LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	
							226				60°, J,N,No,No,Ir,VR @ 223.9', 225.1'	
							227				fractured zones @ 224.7-225.1'	

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# BORING LOG

BORING NO. CB-C2

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							225						
							226.0					DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F). grading gray; micritic; hard @ 226.3'	
							227					LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F). 80°, J, N, No, No, Ir, VR @ 227.1-227.8', 227.7-228.1'	
PQ	44	5.0	4.5	0.8	90	16	228					DOLOMITE; brownish gray; micritic; slightly weathered; strong; hard; w/calcite healed fractures; (Salina Group - Unit F). healed fracture @ 228.1-228.7' 0-5°, B, W (solutioned), R @ 228.3', 228.7', 228.9' 80°, J, Ca, H, Sp, Ir @ 228.4-228.8', 229.4-229.8'	
							229						
							230						
							231.0						Core box #20 starts @ 231.0'.
							231						
							232						
							233						
PQ	45	5.0	1.7	0.0	34	0	234					BRECCIA; poorly cemented; dark grayish brown; crystalline limestone matrix; w/angular dolomite clasts; light brownish gray; micritic; (Salina Group - Unit F).	Core loss; no drill chatter @ 233.0'.
							235						
							236.0						
							236						
							237						
							238						
PQ	46	5.0	1.7	0.0	34	0	239					DOLOMITE; dark gray; micritic; slightly weathered; strong; hard; w/soft layers; (Salina Group - Unit F). 80°, J, T, Ca, Fi, PI, R @ 235.3' strike intersecting @ 70° w/80°, J, T, Ca, Fi, PI, R @ 235.3'	
							240						

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# BORING LOG

BORING NO. CB-C2

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							240					90°, J, PI, R @ 240.0-240.8'	
							241					CLAY; dolomitic (Salina Group - Unit F).	Barrel dropped 0.2' at end of run 46. Possible soft zone - barrel washed down to 242.0' from 241.9'.
PQ	47	2.5	0.5	0.0	20	0	242						
							243					DOLOMITE; dark gray; micritic; strong; hard; w/very soft white clay coating rock; (Salina Group - Unit F).	
							244					90°, J, PI, SR @ 243.0-243.5'	
PQ	48	2.5	1.6	0.0	64	0	245					BRECCIA; poorly indurated claystone matrix; vuggy limestone; fossiliferous dolomite; (Salina Group - Unit F).	
							246					DOLOMITE; gray; micritic; strong; hard; (Salina Group - Unit F).	Prior to run 49, pulled back 10'. Caved to 242.5'; washed back down to 246.0'.
							247					0°, B, N, UK, Sp, PI, SR @ 245.5', 245.6'	
							248					light brownish gray @ 246.0-246.2'	
PQ	49	5.0	4.6	3.3	92	66	249					10°, B, N, UK, Pa, WA, SR @ 246.7', 246.9', 247.1'	
							250					DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; very strong; hard; medium bedded; w/stylolites; (Salina Group - Unit E).	
							251					10°, B, N, UK, Pa, WA, SR @ 247.2', 247.5', 248.2'	
							252						
							253						
PQ	50	5.0	5.0	3.8	100	76	254					85°, J, T, Ca, Pa, Ir, SR @ 251.0-251.7'	Core box #21 starts @ 251.0'.
							255					10°, B, N, UK, Pa, WA, SR @ 251.2', 252.3'	
												0°, B, N, UK, Pa, WA, SR @ 252.0', 252.2', 252.6', 252.7'	
												0°, B, N, UK, Pa, WA, SR @ 254.0', 254.8'	

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# BORING LOG

BORING NO. CB-C2

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY TB Bonnie/Ang/Grainger		CHECKED BY EM Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								255					
								256					
PQ	51	5.0	5.0	4.5	100	90		257					
								258					
								259					
								260					
								261					
								262					
PQ	52	5.0	4.9	4.2	98	84		263					
								264					
								265					
								266					
								267					
								268					
PQ	53	5.0	4.9	4.9	98	98		269					
								270					

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mottled, gray convoluted band @ 255.6-255.8'  
 0°,B,N,UK,Pa,WA,SR @ 255.8'  
 5°,B,N,No,No,PI,SR @ 256.0', 259.7'  
 0°,B,N,UK,Su,WA,SR @ 256.7'  
 0°,V,N, healed w/anhydrite & very fine dolomite chips @ 257.4'  
 65°,J,T,anhydrite,Fi,Ir @ 257.4-258.1'

DOLOMITE; gray; micritic; fresh; strong; hard; w/shale bands; (Salina Group - Unit E).  
 ¼" thick very soft white clay seam @ 260.3'  
 0-10°,V,N,Gy,Fi,PI @ 261.1', 261.15', 261.2', 261.3', 261.8'

DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; strong; hard w/gypsum veins & nodules; (Salina Group - Unit E).

DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; interbedded w/thin shaley partings & bands; & gypsum veins & nodules; (Salina Group - Unit E).  
 0-10°,V,N,Gy,Fi,PI @ 262.5', 263.8'  
 bedding contorted @ 263.0-264.4'  
 shale partings @ 263.5', 263.8', 264.4', 265.8'  
 0-10°,V,N,Gy,Fi,PI @ 264.6', 264.9', 264.95', 265.0'

DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; interbedded w/numerous gypsum & crystal filled gypsum veins; (Salina Group - Unit E).

GYPNUM; (Salina Group - Unit E).  
 0°,V,VN to N,Gy,Fi,PI @ 267.4', 267.5', 267.55', 267.6', 267.7', 267.75', 267.85', 267.9', 267.95', 268.05', 268.15'

DOLOMITE; light gray & white; micritic; fresh; very strong; hard; interbedded w/gypsum; (Salina Group - Unit E).

Core box #22 starts @ 260.3'.

Core box #23 starts @ 269.8'.



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BORING LOG

BORING NO. CB-C2

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6353.2'	GROUND ELEVATION (DATUM) E 4517.1'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 07/18/07	DATE FINISHED 08/01/07

LOGGED BY Bonnie/Ang/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							270					0-5° V,N,anhydrite,Fi,Ir @ 268.4'	
							271					DOLOMITE; gray; micritic; fresh; very strong; hard; w/gypsum & anhydrite partings & veins; & shale partings; (Salina Group - Unit E).	
							272						
							273						
							274						
							275						
							276						
							277						
							278						
							279						
							280						
							281						
							282						
							283						
							284						
							285						

Bottom of boring @ 271.0'. Water level @ 24.0' at completion of drilling. Hole caved to 184.0'. Backfilled w/bentonite chips from 271' on 09/12/07.



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# BORING LOG

BORING NO. CB-C3

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY TB for Bonnie/Ang/Mass	CHECKED BY EAF TB for Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
S	1		1.3				0		581		Gravelly COBBLES with Sand - About 60% angular, very hard cobbles; w/max. size 9"; about 20% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; gray; dry; weak reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.  Vacuum excavation encountered refusal @ 1.3'. Below 1.3' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							1	580				
							2	579				
							3	578				
							4	577				
							5	576				
							6	575				
							7	574				
							8	573				
							9	572				
							10	571				
							11	570				
							12	569				
							13	568				
							14	567				
							15	567				

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Discrete sample S02A collected from 14.0-15.0'.



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# BORING LOG

BORING NO. CB-C3

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY TB Bonnie/Ang/Mass		CHECKED BY EJA TB for Dogbey/Bonnie TB	APPROVED BY EJA Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	3		15.0				NR	15		566		PEAT (PT) - organic odor	Discrete sample B-2A taken from S-2 @ 14.0-15.0'. Set nominal 6" temporary steel casing to 15.5'. Hole opened to 17.7'.
TW	4		17.3				1.7	16		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; soft; moist; no reaction w/HCl	Water level @ 9.6' on 07/24/07. Hole open to 16.9'. Below 16.9', continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/ D-50 automatic hammer. PP = 4.5 TSF @ 20.0'.
TW	5						1.2	17		564		Clayey GRAVEL with Sand (GC) - About 55% gravel w/max. size 3/4"; about 26% LL=41, PL=11, no dilatancy fines; about 19% sand; grayish brown; hard; moist; (Glacial Till).	grades olive brown @ 21.0'
SPT	6	12	27	27	54	1.5		18		563		Sandy Silty CLAY (CL-ML) - About 59% LL=18, PL=11, no dilatancy fines; about 37% fine to coarse, subangular to subrounded gravel w/max. size 1/2", fractured w/2 hammer blows; dark gray; very hard; moist; (Glacial Till).	PP > 4.5 TSF @ 22.5'. PP > 4.5 TSF @ 23.5'.
SPT	7	18	27	36	63	1.0		19		562		grades w/max. gravel size 1 1/2" @ 26.5'	PP > 4.5 TSF @ 26.0'.
SPT	8	9	29	23	52	1.0		20		561		grades w/boulders	Boulder @ 27.5'.
SPT								21		560		Silty GRAVEL (GM) - About 70% coarse, subangular to subrounded, hard gravel w/max. size 1 1/2"; about 30% low plasticity, low toughness, rapid dilatancy fines; grayish brown; very dense; wet; (Weathered Rock).	
								22		559			
								23		558			
								24		557			
								25		556			
								26		555			
								27		554			
								28		553			
								29		552			
								30		552			

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# BORING LOG

BORING NO. CB-C3

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Mass	CHECKED BY EM Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
SPT	9	34	14	26	40	1.0	30		551		Poorly graded GRAVEL (GP) - About 90% fine to coarse, subangular gravel max. size 1 1/2", fractured w/2 hammer blows; about 10% medium to coarse, subangular sand; gray; dense; wet; (Weathered Rock).		
							31		550				
							32		549				
							33		548		DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core box #1 starts @ 32.5'. Set nominal 6" temporary steel casing to 35.5'. Hole open to 36.0'. Core box #1 starts @ 36.0'. Below 36.0', continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.	
S	10		32.5			3.5	34		547				
							35		546				
							36		545		shale parting - 0°, B,T,WA,SR @ 36.1'		
HQ	1	2.5	2.5	1.8	100	72	37		544		60°, J,T,No,No,PI,Healed @ 36.3-36.6', 36.35-36.5'		
							38		543		shale partings - 0°, B,T,PI,SR @ 37.3', 37.6', 37.85'		
							39		542		90°, J,T,Ci,Sp,PI,SR @ 37.3-37.6'		
							40		541		0°, J,VN,No,No,PI,SR @ 39.3', 40.2'		
							41		540		90°, J,T,No,No,PI,SR @ 40.2-40.8', 42.0-43.2'		
HQ	2	5.0	5.0	3.4	100	68	41		540		0°, J,VN,No,No,PI,SR @ 40.8', 41.0', 41.2'		
							42		539		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).		
							43		538		0°, J,VN,No,No,PI,SR @ 43.0'		
							44		537		shale partings - 0° B,VN,PI,SR @ 43.9', 44.25', 44.8'		
							45		537		90° J,T,No,No,PI,SR @ 43.9-44.3', 44.8-45.1', 43.6-43.8' (on edge of core)		

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# BORING LOG

BORING NO. CB-C3

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Mass	CHECKED BY EIA TB for Dogbey/Bonnie TB	APPROVED BY F.M Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	3	5.0	5.0	3.7	100	74	45		536		shale parting - 0°,B,VN,PI,SR @ 45.4'		
							46		535		shale partings - 0°,B,VN,PI,SR @ 46.0', 46.15', 46.4'		
							47		534		DOLOMITE; gray; micritic; fresh; strong; hard; slightly pitted; (Bass Islands Group). 50°,J,T,No,No,PI,SR @ 46.7-46.8' 20°,J,T,No,No,PI,SR @ 46.9-48.0'		
							48		533		10°,J,T,No,No,Ir,R @ 47.8'		
			48.5				49		532		60°,J,T,No,No,PI,SR @ 49.0-49.3' 50°,J,T,No,No,PI,SR @ 49.3-49.4'	Core box #2 starts @ 49.4'	
HQ	4	5.0	4.6	3.8	92	76	50		531				
							51		530		80°,J,No,No,PI,Slk @ 50.6-51.0' shale band @ 50.6' 40°,J,No,No,PI,SR @ 50.6' 10°,J,T,No,No,PI,SR @ 51.5-51.6'		
							52		529				
							53		528				
			53.5				54		527				
							55		526		10°,J,VN,CI,Fi,PI,SR @ 54.6'		
HQ	5	5.0	5.0	5.0	100	100	56		525		grades w/stylolites @ 55.5' convoluted bedding @ 55.8-56.0' 70°,J,VN,No,No,PI,SR @ 55.8-56.0' 0°,J,VN,No,No,PI,SR @ 56.0' 0°,B,T,No,No,PI,SR @ 56.6'		
							57		524		grades light grayish brown @ 57.0' 40°,J,T,No,No,PI,SR @ 57.1-57.3'		
							58		523		grades no stylolites @ 58.0' 10°,J,T,No,No,PI,SR @ 58.0'		
			58.5				59		522		brecciated, healed @ 58.5-60.0'		
							60		521		20°,J,T,No,No,PI,SR @ 59.7-59.8'		

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# BORING LOG

BORING NO. CB-C3

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY <i>ECA</i> Bonnie/Ang/Mass		CHECKED BY <i>CA</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	6	5.0	5.0	4.5	100	90	60		521		DOLOMITE; gray; (Bass Islands Group). J, VN, No, No, WA, SR @ 60.5'	Core box #3 starts @ 61.1'.	
							61		520		DOLOMITE; mottled; (Bass Islands Group). shale band @ 61.1-61.25		
							62		519		DOLOMITE; oolitic; (Bass Islands Group). 90°, F, T, No, No, WA, SR @ 61.5-64.5' (healed)		
							63		518				
							64		517				
HQ	7	5.0	5.0	3.0	100	60	64.5		516		DOLOMITE; grayish brown & dark gray, mottled; micritic; fresh; strong; very hard; convoluted bedding; (Bass Islands Group). 20°, J, T, No, No, PI, SR @ 64.6', 66.6-66.7' 10°, J, T, No, No, PI, SR @ 64.7', 67.4', 68.2'		
							66		515		SHALE; very dark gray; fresh; moderately strong; hard; fissile; (Bass Islands Group).		
							67		514		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 80°, J, T, No, No, PI, SR @ 65.2-65.4'		
							68		513		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded w/brecciated dolomite; (Bass Islands Group). brecciated dolomite bed, healed @ 66.5-67.2 30°, J, T, No, No, PI, SR @ 66.95-67.1' shale parting @ 67.2-67.25' 90°, J, T, No, No, PI, SR @ 67.25-67.4'(2)	Water level @ 21.7' on 08/09/07.	
							69		512				
HQ	8	5.0	4.5	0.4	90	8	68.5		511		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 10°, J, T, No, No, PI, SR @ 68.9', 69.6', 70.5' 90°, J, T, No, No, PI, SR @ 68.9-69.1' 0°, B, T, No, No, PI, SR @ 69.2', 70.0', 70.2' 80°, J, T, No, No, PI, SR @ 69.7-70.3' 30°, J, T, No, No, PI, SR @ 70.7-71.0' 90°, J, T, No, No, PI, SR 71.1-71.5' 10°, J, T, No, No, PI, SR @ 71.1' highly fractured @ 71.4-73.0' 90°, J, T, No, No, PI, SR 72.0-72.2' 0°, B, T, No, No, PI, SR @ 72.0'		
							71		510				
							72		509				
							73		508				
							74		507		90°, J, N, No, No, PI, SR @ 73.5-73.7' 80°, J, T, No, No, PI, Sr @ 73.75-74.15' 0°, B, T, No, No, PI, SR @ 73.75', 74.15'		
							75						

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# BORING LOG

BORING NO. CB-C3

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY EUA Bonnie/Ang/Mass		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	9	5.0	5.0	4.1	100	82	75	506		20°, J, T, No, No, PI, SR @ 75.2'	Core box #4 starts @ 75.2'		
							76	505					
							77	504					
							78	503					
							79	502		70°, J, T, No, No, PI, SR @ 78.3-78.8'			
							80	501		20°, J, T, No, No, PI, SR @ 79.5-79.6'			
HQ	10	5.0	5.0	4.5	100	90	81	500		45°, J, T, No, No, PI, SR @ 80.25-80.8'			
							82	499		shale parting @ 81.25' brecciated, healed @ 81.25-81.7' 10°, J, T, Cl, Sp, PI, SR @ 81.7' 0°, J, T, Cl, Sp, PI, SR @ 82.1'			
							83	498		0°, J, T, Cl, Sp, PI, SR @ 82.9'			
							84	497		claystone; gray; slightly weathered, moderately strong; low hardness @ 83.5-83.7'			
							85	496		shale parting - 0°, B, VN, PI, SR @ 84.9'			
HQ	11	5.0	5.0	3.8	100	76	86	495		shale parting - 0°, B, VN, PI, SR @ 85.9' shale parting - 0°, B, VN, PI, SR @ 86.2' shale partings - 0°, B, VN, PI, SR @ 86.6', 87.1'			
							87	494		pitted @ 87.2-87.8'			
							88	493		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale parting @ 88.3'	Core box #5 starts # 88.5'		
							89	492		SHALE; dark gray; (Bass Islands Group).			
							90	491		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).			

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C3

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY Bonnie/Ang/Mass	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	12	4.0	1.25	0.8	31	20	90		491		0°,B,T,No,No,WA,SR @ 90.0'	
			92.5				91		490			
							92		489			
HQ	13	1.0	0.0	0.0	0	0	93		488			Core barrel blocked @ 92.5'
			93.5				94		487			
							95		486			
HQ	14	5.0	0.0	0.0	0	0	96		485			Rapid penetration @ 95.5-97.5'
							97		484			
							98		483			
HQ	15	1.0	0.0	0.0	0	0	99		482			
			99.5				100		481			
HQ	16	1.5	1.5	0.5	100	35	100		481		DOLOMITE; grayish brown & gray; micritic; fresh; strong; hard; banded; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 99.7', 100.4', 100.5', 100.6', 100.7', 100.8', 100.9' 15°,J,VN,CI,Sp,PI,SR @ 100.15' 90°,J,T,No,PI,SR @ 99.7-99.9', 100.4-100.7' (healed) shale partings - 0°,B,VN,Sp,PI,SR @ 101.05', 101.1', 101.5', 101.7', 101.8', 102.05', 102.25' 90°,J,VN,CI,Sp,PI,SR @ 101.5-102.1', 102.0-102.1'	Following run HQ-15, pulled outer barrel. Bedrock pieces in bottom of outer barrel - likely cause of '0' recovery in HQ-13, 14, & 15. Pieces saved as HQ-15 in core box.
			101.0				101		480			
							102		479			
HQ	17	2.5	2.5	1.0	100	40	102		479			
							103		478			
			103.5				104		477			
							105		477			

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C3

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY <i>JB</i> Bonnie/Ang/Mass	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	18	5.0	4.6	2.5	92	50	105		476		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, B, VN, Sp, PI, SR @ 103.95', 104.05', 104.3', 104.6', 104.8' 90°, J, T, H, Fi, PI, SR @ 104.05-105.1' 90°, J, T, No, No, PI, SR @ 106.1-106.2' shale partings - 0°, B, VN, Sp, PI, SR @ 106.1', 106.2', 106.3' 90°, J, T, H, Fi, PI, SR @ 106.2-108.2'	
			108.5				108		473		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). shale partings - 0°, B, VN, Sp, PI, SR @ 108.1', 108.5', 108.8', 109.2' 90°, J, T, No, No, PI, SR @ 108.2-108.8', 108.8-109.2' (on edge of core) grades gray w/stylolites @ 108.3-109.3' shale partings - 0°, B, VN, Sp, PI, SR @ 109.5', 109.8', 109.9' 80°, J, T, No, No, PI, SR @ 109.9-110.7' brecciated, healed @ 110.1-110.6'	
HQ	19	5.0	5.0	1.1	100	22	111		470		shale parting - 0°, B, VN, Sp, PI, SR @ 111.5' 20°, J, VN, CI, Sp, PI, R @ 111.8-111.9' 90°, J, T, No, No, PI, SR @ 111.8-113.5'	Core box #6 starts @ 111.5'
			113.5				113		468		shale partings - 0°, B, VN, Sp, PI, SR @ 112.7', 112.9', 113.0', 113.2' fragmented @ 113.0-113.2' shale partings - 0°, B, VN, Sp, PI, SR @ 113.6', 116.65'	Water level @ 26.3' prior to drilling on 08/10/07.
HQ	20	5.0	5.0	4.5	100	90	116		465		pitted @ 114.1-116.6'  60°, J, T, No, No, PI, SR @ 116.1-116.5'	
			118.5				117		464		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, B, VN, anhydrite, Fi, PI, SR @ 117.1' anhydrite filled vug @ 117.4'	
							118		463		30°, J, VN, Ca, Fi, PI, SR @ 117.9-118.1' anhydrite/shale parting @ 118.1' 75°, J, T, No, No, PI, S @ 118.2-118.5'	
							119		462			
							120		462			

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# BORING LOG

BORING NO. CB-C3

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY <i>TB</i> Bonnie/Ang/Mass		CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							LOGGED BY	CHECKED BY	APPROVED BY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY									
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
HQ	21	5.0	3.8	1.6	76	32	120		461		brecciated, healed @ 120.1-120.5' convoluted bedding @ 120.5-120.8'				
							121		460		shale parting - 0°,B,VN,Sp,PI,SR @ 120.9' 0°,B,VN,No,No,PI,SR @ 121.7'				
							122		459		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°,B,VN,Ca,Fi,PI,SR @ 121.9', 122.1' 90°,J,T,No,No,PI,SR @ 122.1-122.3', 122.5-122.9', 123.0-123.5'				
							123		458		0°,B,VN,No,No,PI,SR @ 122.3', 122.4', 122.5', 122.7', 123.05', 123.25' shale parting @ 122.35'				
HQ	22	5.0	3.1	0.5	62	10	124		457						
							125		456		90°,J,T,No,No,PI,SR @ 125.0-125.5' 0°,B,VN,No,No,PI,SR @ 125.5', 126.0', 126.1', 126.3', 126.5'				
							126		455						
							127		454		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/gypsum beds, veins; (Salina Group - Unit F). shale parting @ 126.65' gypsum @ 126.65-126.7'				
							128		453		0°,B,VN,No,No,PI,SR @ 126.7', 126.9' fragmented @ 126.7-127.1' 90°,J,VN,Ca,Fi,WA,SR @ 127.1-127.8' gypsum band @ 127.1-127.3' gypsum band @ 127.8-127.9'	Core box #7 starts @ 127.8'			
							129		452		90°,J,T,No,No,PI,SR @ 127.9-128.1' gypsum band @ 128.0-128.1'				
HQ	23	5.0	3.0	0.7	60	14	130		451						
							131		450		0°,B,T,No,No,PI,SR @ 130.1', 130.5', 130.65', 130.9', 131.15' gypsum band @ 130.2-130.3' gypsum band @ 130.45-130.5' 90°,J,T,No,No,PI,SR @ 130.5-130.6' 70°,J,VN,No,No,PI,SR @ 130.6-130.8', 131.6-131.8'				
							132		449		DOLOMITE; argillaceous; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). anhydrite convoluted veins @ 131.8-132.1' 90°,J,T,No,No,PI,SR @ 132.35-133.7'				
							133		448		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F). fragmented @ 132.8-133.2', 132.3-133.5' 10°,J,T,No,No,PI,SR @ 133.1', 133.3' limestone band @ 133.2-133.3' limestone band @ 134.1-134.2'				
							134		447						
							135		447						

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# BORING LOG

BORING NO. CB-C3

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY TB <i>EA</i> <i>TB for</i> Bonnie/Ang/Mass	CHECKED BY <i>EA</i> <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EA</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	24	5.0	2.3	0.0	46	0	135		446		limestone band @ 134.8-134.9'	Core loss @ 135.0'-138.5'
							136		445		limestone band @ 135.5-135.6'	
							137		444		limestone @ 136.2-136.5'	
							138		443		dolomite band @ 137.5-137.7'	
							138.5				dolomite @ 138.2-138.5'	
HQ	25	2.5	1.7	0.4	68	16	139		442		slightly weathered @ 138.5-138.7', 140.3-140.5'	
							140		441		dolomite @ 138.7-139.0'	
							141		440		DOLOMITE; (Salina Group - Unit F). 10°, B, VN, No, No, PI, SR @ 139.6', 139.7', 139.9' 90°, J, T, No, No, PI, SR @ 139.7-140.3' 0°, B, VN, No, No, PI, SR @ 140.0', 141.05', 141.1', 141.15'	
							141		440		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).	
HQ	26	2.5	1.2	0.0	48	0	142		439		dolomite band @ 141.2-141.4'	
							143		438		limestone band; fragmented @ 141.6-141.7'	
							143		438		dolomite band; w/calcite bedding @ 141.9-142.2'	
							143.5				DOLOMITE; (Salina Group - Unit F). 0°, B, T, No, No, PI, SR @ 142.7', 142.8', 143.95', 143.1', 143.15', 143.2' 90°, J, T, No, No, PI, SR @ 142.7-143.25'	
							144		437		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).	
HQ	27	2.5	1.2	0.0	48	0	145		436		DOLOMITE; light brownish gray; (Salina Group - Unit F).	
							146		435		highly fractured @ 144.2-144.5'	
							146		435		90°, J, T, No, No, PI, SR @ 144.5-144.7'	
							146		435		0°, B, T, No, No, PI, SR @ 144.5', 144.6', 144.7'	
							147		434		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).	
HQ	28	2.5	0.2	0.0	8	0	148		433		DOLOMITE; bluish gray; highly fractured; (Salina Group - Unit F).	
							148		433		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F).	
							148.5				dolomite; argillaceous @ 148.8-149.2'	
							149		432		90°, J, T, No, No, PI, SR @ 149.0-149.2'	
HQ	29	2.5	1.3	0.0	52	0	150				60°, J, T, No, No, PI, SR @ 149.1-149.2'	

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# BORING LOG

BORING NO. CB-C3

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY <i>TB</i> Bonnie/Ang/Mass		CHECKED BY <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							150		431		dolomite band; argillaceous @ 149.5-149.6' slightly weathered @ 150.2-150.4' dolomite band @ 150.4-150.6' slightly weathered @ 150.6-150.8'	Core box #8 starts @ 151.0'	
			151				151		430		dolomite band @ 151.3-151.5'		
HQ	30	2.5	0.7	0.0	28	0	152		429		dolomite band @ 151.9-152.1' slightly weathered @ 152.1-152.3'		
			153.5				153		428		dolomite band @ 152.9-153.0' slightly weathered @ 153.0-153.2'		
HQ	31	2.5	0.5	0.0	20	0	154		427				
			156.0				155		426				
HQ	32	2.5	0.9	0.0	36	0	156		425		dolomite band @ 156.1-156.3'		
			158.5				157		424		dolomite @ 157.2-157.5'		
			158.5				158		423		dolomite @ 158.1-158.4'		
HQ	33	2.5	1.3	0.4	52	16	159		422		dolomite band @ 158.9-159.0'		
			161.0				160		421		<b>BRECCIA</b> ; poorly indurated to indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of claystone; gray; fresh; strong; hard; (Salina Group - Unit F).		
HQ	34	2.5	2.0	0.0	80	0	161		420		limestone @ 161.4-161.5'		
			163.5				162		419				
			163.5				163		418				
HQ	35	2.5	1.2	0.0	48	0	164		417				
							165		417				

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# BORING LOG

BORING NO. CB-C3

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY Bonnie/Ang/Mass	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							165			416		dolomite band; gray @ 165.3-165.5' 90° J, T, No, No, PI, SR @ 165.5-165.7'	
			166.0				166			415		dolomite band; grayish brown @ 165.5-165.7' dolomite band @ 166.2-166.4'	
HQ	36	2.5	1.5	0.0	60	0	167			414		0° B, T, No, No, PI, SR @ 166.6' 30° J, T, No, No, PI, SR @ 166.6-166.7' dolomite band @ 166.6-166.8'	
			168.5				168			413		dolomite band @ 168.0-168.2'	
HQ	37	2.5	1.2	0.0	48	0	169			412		DOLOMITE; (Salina Group - Unit F). 90° J, T, No, No, PI, SR @ 169.2-169.4', 170.1-170.3'	
			171.0				170			411		breccia band @ 169.8-169.9'	
HQ	38	2.5	2.0	0.0	80	0	171			410		BRECCIA; poorly indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of claystone; gray; fresh; strong; hard; (Salina Group - Unit F). dolomite @ 171.6-171.9'	
			173.5				172			409			
HQ	39	2.5	0.0	0.0	4	0	173			408		dolomite band @ 173.1-173.3'	
			176.0				174			407			
HQ	40	2.5	1.0	0.5	40	20	175			406			
			178.5				176			405			
HQ	41	2.5	0.0	0.0	0	0	177			404		dolomite band @ 176.5-176.7'	
							178			403			
							179			402			
							180						

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# BORING LOG

BORING NO. CB-C3  
SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY Bonnie/Ang/Mass		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							180			401			
			181.0				181			400		dolomite; gray @ 181.5'	
HQ	42	2.5	0.3	0.0	12	0	182			399			
			183.0				183			398		dolomite; grayish brown @ 183.0'	
			183.5				184			397			
HQ	43	2.5	0.3	0.0	12	0	185			396		dolomite @ 184.7-185.0' 90°, J, T, No, No, PI, SR @ 184.7-185.0'	
			186.0				186			395			
HQ	44	2.5	0.5	0.0	20	0	187			394		dolomite; brownish gray layers @ 186.5'	Core box #9 starts @ 186.0'. Claystone possibly washed out during coring.
			188.5				188			393			
			188.5				189			392		0°, B, VN, No, No, PI, SR @ 188.6'	
HQ	45	2.5	2.1	1.7	84	68	190			391		<u>BRECCIA</u> ; indurated claystone matrix; gray; moderately strong; moderately hard; w/clasts of claystone; brownish gray; fresh; moderately strong; moderately hard; & dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, VN, No, No, PI, SR @ 189.1', 190.3', 190.4', 190.5'	
			191.0				191			390			
HQ	46	2.5	1.0	0.0	40	0	192			389		<u>BRECCIA</u> ; poorly indurated limestone matrix; bluish gray; micritic; strong; hard; w/clasts of claystone; brownish gray; fresh; moderately strong; moderately hard; (Salina Group - Unit F). 20°, J, T, No, No, PI, SR @ 191.8' 0°, B, VN, No, No, PI, SR @ 192.1', 192.2', 193.3'	
			193.5				193			388			
			193.5				194			387		<u>DOLOMITE</u> ; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
HQ	47	2.5	0.6	0.0	24	0	195			387		<u>BRECCIA</u> ; poorly indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of dolomite; gray; micritic; fresh; moderately strong; moderately hard; (Salina Group - Unit F).	

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# BORING LOG

BORING NO. CB-C3

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Mass	CHECKED BY EM Dogbey/Bonnie TB	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD							
							195		386			DOLOMITE; light gray; micritic; fresh; strong; hard; w/limestone partings; (Salina Group - Unit F).	
			196.0				196		385			BRECCIA; indurated limestone matrix; bluish gray; micritic; fresh; strong; hard; w/clasts of claystone; pale yellow; fresh; moderately strong; moderately hard; (Salina Group - Unit F).	
HQ	48	2.5	2.4	0.0	96	0	197		384			0° B,T,No,No,PI,SR @ 196.4', 196.6', 196.8'	
			198.5				198		383			DOLOMITE; brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 80° J,T,No,No,PI,SR @ 197.0-198.1'	
							199		382			10° B,T,No,No,PI,SR @ 197.0', 197.4', 197.5', 197.6'	
							200		381			shale partings @ 197.4'	
HQ	49	5.0	4.6	2.0	92	40	201		380			grades banded, light gray @ 197.6'	
							202		379			0° B,VN,No,No,PI,SR @ 199.5', 199.9'	
							203		378			10° J,VN,No,No,PI,SR @ 200.6', 200.7'	
							204		377			0° B,VN,No,No,PI,SR @ 201.4', 201.7'	
			203.5				205		376			DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0° B,VN,No,No,PI,SR @ 202.3'	
							206		375			90° J,VN,Ca,Fi,WA,SR @ 201.8-202.3'	
							207		374			0° B,VN,No,No,PI,SR @ 204.0', 204.2'	Core box #10 starts @ 203.5'
HQ	50	5.0	4.2	1.0	84	20	208		373			black shale seam @ 204.4-204.5'	
							209		372			LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 0° B,VN,No,No,PI,SR @ 204.7', 205.3'	
			208.5				210		371			30° J,VN,No,No,PI,SR @ 207.5'	
												0° B,VN,No,No,PI,SR @ 208.1', 208.3'	
												0° B,VN,No,No,PI,SR @ 209.1', 209.4', 209.8'	

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# BORING LOG

BORING NO. CB-C3

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY TB Bonnie/Ang/Mass		CHECKED BY L Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	51	5.0	4.5	2.4	90	48	210		371		0°,B,VN,No,No,PI,SR @ 210.0', 210.1'		
							211		370		fractured @ 211.0-212.0' 0°,B,VN,No,No,PI,SR @ 211.0'		
							212		369				
							213		368		0°,B,VN,Ca,Fi,PI,SR @ 212.5', 212.55', 212.65', 213.0' 90°,J,VN,Ca,Fi,PI,SR @ 212.6-213.5'		
			213.5				214		367				
HQ	52	5.0	4.6	2.5	92	50	215		366		<u>DOLOMITE</u> ; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F) fractured; grading from open at top to filled w/calcite (healed) at bottom; @ 214.6-215.8'		
							216		365		shale parting @ 215.8' some vugs filled w/claystone @ 216.0', 217.0'		
							217		364		<u>LIMESTONE</u> ; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 80°,J,T,Ca,Fi,PI,SR @ 216.9-218.5'		
							218		363		0°,B,T,Ca,Fi,PI,SR @ 216.5', 216.7', 217.7' 218.0'		
			218.5				219		362		dolomite; light yellowish brown @ 218.7-219.1' 80°,J,VN,Ca,Fi,PI @ 218.7-218.9', 218.95-219.1'	Core box #11 starts @ 218.5'	
HQ	53	3.0	2.3	1.5	77	50	220		361		shale partings @ 219.5' 0°,B,VN,No,No,PI,SR @ 220.0'		
							221		360		<u>BRECCIA</u> ; indurated limestone matrix; very dark gray; w/clasts of dolomite; light brownish gray; (Salina Group - Unit F). 45°,J,VN,Ca,Fi,PI,SR @ 220.5' 90°,J,VN,Ca,Fi,PI,SR @ 221.0-221.4'		
			221.5				222		359		<u>LIMESTONE</u> ; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 0°,B,T,Ca,Sp,PI,SR @ 222.3', 224.4' 0°,B,VN,Ca,Fi,PI,SR @ 222.7', 222.9', 223.1', 223.3' fragmented @ 222.9-223.1'		
HQ	54	2.0	1.5	0.7	75	35	223		358				
			223.5				224		357		30°,J,T,Ca,Fi,PI,SR @ 224.35-224.4 60°,J,VN,Ca,Fi,PI,R @ 224.7-225.0'		
							225		357				

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# BORING LOG

BORING NO. CB-C3  
SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY Bonnie/Ang/Mass	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	55	5.0	1.9	0.0	38	0	225		356		10°, J, T, Ca, Fi, PI, SR @ 224.9-225.0'		
							226		355		fractured @ 225.5-226.0'		
							227		354				
							228		353				
			228.5				229		352		fractured @ 228.5-229.0		
							230		351		0°, B, VN, Ca, Sp, PI, SR @ 230.1', 230.25'		
HQ	56	5.0	2.9	0.4	58	8	231		350		0°, B, VN, Ca, Sp, PI, SR @ 230.8', 230.95'		
							232		349		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, VN, Ca, Sp, PI, SR @ 231.85', 232.3', 232.7', 233.2'		
							233		348		90°, J, T, Ca, Fi, Sp, SR @ 231.9-232.25', 233.1-233.5' 45°, J, T, Ca, Fi, Sp, SR @ 232.3-232.45' fractured @ 232.3-232.5' fractured @ 232.7-232.9'		
			233.5				234		347				
							235		346				
HQ	57	5.0	2.9	0.0	58	0	236		345		CLAYSTONE; gray; micritic; highly weathered; very weak; low hardness; (Salina Group - Unit F).		
							237		344		LIMESTONE; very dark gray; micritic; fresh; strong; hard; pitted; (Salina Group - Unit F). 0°, B, T, No, No, PI, SR @ 236.7', 237.25', 237.4', 237.5', 237.75', 238.0', 238.1' 40°, J, T, No, No, PI, SR @ 237.6-237.7' dolomite; gray @ 238.1-238.5'		
							238		343				
			238.5				239		342				
							240		340		0°, B, T, No, No, PI, SR @ 239.3', 239.6', 239.8', 240.4', 240.7'		

Water level @ 25.3' prior to drilling on 08/12/07.

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# BORING LOG

BORING NO. CB-C3

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY Bonnie/Ang/Mass	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	58	5.0	4.5	3.3	90	66	240		341		dolomite band @ 239.5-239.6'	Core box #12 starts @ 240.7'.
							241		340		BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).	
							242		339		DOLOMITE; (Salina Group - Unit F). 80° J, VN, No, No, PI, SR @ 241.1-241.3' 0°, B, T, No, No, PI, SR @ 241.45'	
							243		338		BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).	
			243.5				244		337		dolomite band (large clasts) @ 242.5-242.6' 0°, B, T, No, No, PI, SR @ 242.65' 0°, B, VN, No, No, PI, SR @ 243.8', 244.1', 244.7', 245.0', 245.2'	
							245		336		dolomite clasts grade very pale brown @ 244.4'	
HQ	59	5.0	4.9	2.75	98	55	246		335		DOLOMITE; very pale brown; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). 0°, B, VN, No, PI, SR @ 245.4', 245.5'	
							247		334		limestone @ 246.2-246.6'	
							248		333		DOLOMITE; very pale brown; micritic; fresh; strong; hard; w/shale partings & fossils; (Salina Group - Unit E). shale partings @ 246.6' 0°, B, VN, No, No, PI, SR @ 246.7', 246.8', 247.0', 247.5' shale partings - 0°, B, VN, Sp, PI, SR @ 247.2', 247.3', 247.9'	
			248.5				249		332		90°, J, VN, No, No, PI, SR @ 248.3'-248.5', 249.3-249.55' 0°, B, T, No, No, PI, SR @ 248.6', 248.7', 249.2' fractured @ 248.7-249.0'; 249.1-249.3' 20°, J, T, No, No, PI, SR @ 249.0-249.1' 0°, B, T, No, No, PI, SR @ 249.55', 249.6', 250.2', 250.55'	
HQ	60	5.0	4.3	2.75	86	55	251		330		0°, B, T, No, No, PI, SR @ 250.9', 251.1'	
							252		329		0°, B, T, No, No, PI, SR @ 252.2'	
			253.5				253		328			
							254		327		0°, B, VN, No, No, PI, SR @ 254.1', 254.65'	
							255					

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# BORING LOG

BORING NO. CB-C3

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

LOGGED BY Bonnie/Ang/Mass		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	61	5.0	4.8	4.4	96	88	255		326		shale parting @ 255.45' 0°,B,T,No,No,PI,SR @ 255.6', 255.8'	Core box #13 starts @ 255.6'.
							256		325		60°,J,T,No,No,PI,SR @ 257.3-257.7'	
							257		324			
							258		323			
							258.5					
							259		322			
							260		321			
HQ	62	5.0	4.2	2.75	84	55	261		320		DOLOMITE; very pale brown & grayish brown; micritic; slightly weathered; gravel-sized fragments; w/shale; possible hydrocarbon odor; (Salina Group - Unit E).	
							262		319		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale parting; (Salina Group - Unit E). grayish brown @ 260.6-260.9' shale partings - 0°,B,VN,Sp,PI,SR @ 260.7', 260.9', 261.15', 261.4', 261.6', 261.8', 262.3' shale parting @ 261.9'	
							263		318		0°,B,VN,gypsum,Fi,PI,S @ 263.4'	
							263.5				0°,B,T,No,No,PI,SR @ 263.85', 263.95'	
							264		317		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/gypsum nodules, veins, & bands; shale partings; (Salina Group - Unit E). gypsum nodules @ 264.5'	
							265		316		shale parting @ 265.3' gypsum @ 265.4-266.0'	
HQ	63	5.0	5.0	3.7	100	74	266		315		0°,B,VN,No,No,PI,SR @ 265.6', 266.8', 267.15' grades gray @ 266.1'	
							267		314		gypsum band @ 266.7-267.6'	
							268		313		grades grayish brown @ 267.6'	
							268.5				0°,B,T,No,No,PI,SR @ 268.1', 268.5', 269.3'	
							269		312		grades dark grayish brown @ 268.5'	
							270				DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit E).	

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# BORING LOG

BORING NO. CB-C3

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6341.4'	GROUND ELEVATION (DATUM) E 4673.8'	TOTAL DEPTH 581.1 ft (NAVD 88) 273.7 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/12/07

SAMPLING		LOGGED BY <i>EB</i> Bonnie/Ang/Mass	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	64	5.0	5.0	4.4	100	88	270		311		0°,B,T,No,No,PI,SR @ 269.6', 269.7' grades gray @ 270.2'	Core box #14 starts @ 270.5'	
							271		310		0°,B,T,No,No,PI,SR @ 270.3'		
							272		309		0°,B,T,No,No,PI,SR @ 270.85', 271.6'		
							273		308		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/gypsum bands & nodules; (Salina Group - Unit E). grades gray @ 272.1'		
							274		307		0°,B,T,No,No,PI,SR @ 272.1', 272.7' grades grayish brown @ 272.8' gypsum bands & nodules @ 272.9-273.4'		
							275		306				
							276		305				
							277		304				
							278		303				
							279		302				
							280		301				
							281		300				
							282		299				
							283		298				
							284		297				
							285						

Bottom of boring @ 273.7'. Water level @ 24.5' @ completion of drilling. Boring backfilled w/ bentonite chips on 09/21/07.





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# BORING LOG

BORING NO. CB-C4

SHEET 1 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY TB ECA TB for Bonnie/Ang/Mass	CHECKED BY TB Dogbey/Bonnie	APPROVED BY EM Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1		2.0				NR	0		580		<p>COBBLES with Gravel &amp; Sand - About 65% angular to elongated, very hard cobbles w/max. size 12"; 20% fine to coarse, angular, hard gravel w/max. size 3"; 15% fine to coarse, angular, hard sand; about 5% fines; gray; dry; homogeneous; (Fill).</p> <p>Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>Discrete sample S02A collected @ 10.5-11.5'.</p> <p>Discrete sample S02B collected @ 13.0-14.0'. Set nominal 6" temporary steel casing to 13.5'. Hole was</p>	
								1		579			
								2		578			
								3		577			
								4		576			
								5		575			
								6		574			
								7		573			
								8		572			
								9		571			
								10		570			
								11		569			
								12		568			
								13		567			
			14.0					14		566			
								15		566			

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# BORING LOG

BORING NO. CB-C4

SHEET 2 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY ECA TB for Bonnie/Ang/Mass		CHECKED BY E TB for Dogbey/Bonnie	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
TW	3					1.4	15		565		no dilatancy fines; about 3 to 9% sand; about 3 to 10% gravel; brown; hard; moist; homogeneous; (Glacial Till).	opened to 14.0'. Below 14.0' continued w/ rotary wash boring using NWJ rods using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Water level @ 11.0' prior to drilling on 07/19/07. PP = 3.75 TSF @ 17.0' PP = 3.3-4.5 TSF @ 19.5'.	
TW	4					1.7	16		564		grades about 92% LL=39, PL=17 fines; about 7% sand; about 1% gravel w/max. size 3/4"; light olive brown		
TW	5					1.9	17		563		grades w/trace fine to coarse, subrounded sand; olive brown		
TW	6					1.4	18		562		grades w/trace coarse, subrounded gravel w/max. size 1 1/2", fractured with 1 hammer blow; trace coarse, subrounded to subangular sand; dark gray; hard; moist		
SPT	7	19	23	25	48	1.4	19		561			PP = 4.0 TSF @ 22.0'.	
SPT	8	9	50/5"		50+	0.9	20		560			PP > 4.5 TSF @ 24.5'.	
S	9		28.5			1.5	21		559			PP > 4.5 TSF @ 26.0'.	
							22		558				
							23		557				
							24		556				
							25		555		Sandy Lean CLAY (CL) - About 57% LL=18, PL=11, no dilatancy fines; about 37% fine to coarse, subrounded to subangular sand; about 6% fine to coarse, subangular to subrounded, hard gravel w/ max. size 3/4"; dark gray; very hard; moist; (Glacial Till).		
							26		554				
							27		553				
							28		552				
							29		551		DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	Below 28.5' continued w/4" ID sonic continuous sampler w/	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Mass	CHECKED BY E.A. For TB Dogbey/Bonnie	APPROVED BY F.M Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	1	3.0	3.0	0.5	100	17	30						nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.4'. Boring open to 30.5'.
			30.5				31		550			DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, Ca, Pa, WA, SR @ 30.5-31.5' 70°, J, Cl, Pa, PI, Slk @ 30.8-31.1' 90°, J, Cl, Pa, WA, SR @ 31.1-32.4' 0°, B, UK, Fi, PI, SR @ 31.6', 31.8', 32.1', 32.8', 33.3'	
							32		549			highly fractured @ 32.4-32.7' 90°, J, Ca, Pa, PI, SR @ 32.4-32.7' (2 joints) 90°, J, Cl, Pa, PI, SR @ 32.8-33.4' 90°, T, No, No, PI, SR @ 32.9-33.5'	
			33.5				33		548				
HQ	2	5.0	5.0	1.2	100	24	34		547			DOLOMITE; argillaceous; grayish brown & light brownish gray, banded; micritic; fresh; strong; very hard; w/thin shale partings & closely spaced stylolites; (Bass Islands Group). 90°, J, Ca, Pa, PI, SR @ 34.5-34.9' highly fractured @ 34.9-35.9'	Below 30.5', continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'. Water level @ 14.5' prior to drilling on 08/02/07.
							35		546				
							36		545			90°, J, No, No, PI, SR @ 35.8-36.4' (2 joints)	
							37		544			DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh; strong; very hard; w/ stylolites; trace shale partings; (Bass Islands Group). 80°, J, T, No, No, PI @ 36.5-36.8' 90°, J, No, No, PI, SR @ 36.8-37.0' 90°, J, pyrite/Ca, Pa, WA, SR @ 37.5-38.0'	
							38		543			60°, J, Ca, Pa, PI, SR @ 38.0-38.2' 70°, J, Cl, Pa, PI, SR @ 38.3-38.5'	
			38.5				39		542			gray @ 38.5' 90°, J, T, Cl, Pa, WA, SR @ 38.5-39.6' shale partings - 0°, B, PI, SR @ 39.0', 39.3', 39.6'	
							40		541				
HQ	3	5.0	5.0	2.3	100	46	41		540			highly fractured @ 40.0-40.2' 90°, J, VN, No, No, PI @ 40.2-40.5' (2 joints) 90°, J, No, No, WA, SR @ 40.7-41.0'	
							42		539			20°, J, No, No, PI, SR @ 41.7', 41.8'	
							43		538			DOLOMITE; gray; pitted (pits < .02"); very fine grained (crystalline); slightly weathered; very strong; hard; (Bass Islands Group).	
			43.5				44		537				Core box #2 starts @ 43.5'.
							45		536				

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C4  
SHEET 4 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY TB Bonnie/Ang/Mass	CHECKED BY TB Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	4	5.0	4.7	1.6	94	32	45		535		DOLOMITE; dark grayish brown; micritic; fresh; strong; very hard; vuggy/pitted, pits/vugs (0.05-1.2"); larger vugs filled w/calcite and anhydrite; (Bass Islands Group). 80°, J, No, No, PI, R @ 45.0-45.4' 10°, J, No, No, PI, R @ 45.1' 50°, J, No, No, PI, R @ 45.3-45.5' 20°, J, UK, FI, PI, R @ 46.1-46.2' highly fractured @ 46.5-46.8' grades light brownish gray @ 46.8-53.7'	
			48.5				46		534		90°, J, Ca, Pa, PI, SR @ 46.9-47.6' 75°, J, Ca, Pa, PI, SR @ 47.5-48.0' 60°, J, Ca, Pa, PI, SR @ 47.9-48.1'	
HQ	5	5.0	5.0	5.0	100	100	49		532		30°, J, anhydrite, FI, PI, SR @ 49.0-49.3'; joint contains large anhydrite crystals (0.4-1.2"); anhydrite also fills the surrounding vugs	
							50		531		0°, J, UK, FI, PI, SR @ 50.6'	
							51		530		30°, J, No, No, PI, R @ 51.7-51.8'	
							52		529		30°, J, anhydrite, FI, PI, SR @ 52.8-52.9', 53.6-53.7'	
							53		528		brecciated, healed; grayish brown @ 53.6' 0°, J, anhydrite, FI, PI, SR @ 53.7'	
HQ	6	5.0	5.0	3.0	100	60	54		527		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; some brecciation, healed, up to 1.5" clasts; (Bass Islands Group). 30°, J, T, No, No, Ir, R @ 54.3-54.4', 57.5-57.7' 50°, J, T, No, No, PI, SR @ 55.3-55.5' grades light yellowish brown @ 55.5'	Water level @ 21.0' prior to drilling on 08/07/07.
							55		526		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 56.0-56.5 90°, J, T, No, No, PI, SR @ 56.0-56.5', 56.5-56.9' 0°, B, T, No, No, PI, SR @ 56.0', 56.1', 56.4', 56.5'	Core box #3 starts @ 56.5'. No drilling fluid return @ 56.5'.
							56		525		DOLOMITE; light gray & dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group). shale; very dark gray @ 56.9-57.1'	
							57		524		DOLOMITE; oolitic; light yellowish brown; very fine grained; fresh; strong; hard; (Bass Islands Group).	
							58		523		20°, J, T, No, No, PI, SR @ 59.5-59.6'	
							59		522			
							60		521			

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# BORING LOG

BORING NO. CB-C4

SHEET 5 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY Bonnie/Ang/Mass	CHECKED BY Dobey/Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	7	3.5	3.3	2.5	94	71	60					
							61					
							62					
HQ	8	1.5	1.5	0.0	100	0	63					
							64					
							65					
HQ	9	5.0	5.0	2.5	100	50	66					
							67					
							68					
							69					
							70					
HQ	10	5.0	5.0	4.3	100	86	71					
							72					
							73					
							74					
							75					

60.9  
DOLOMITE; light gray; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). some brecciation, healed @ 60.9-61.6'  
10°, J, T, No, No, WA, SR @ 61.0'  
shale band; dark gray @ 61.3-61.5', 61.6-61.7'  
0°, B, T, No, No, PI, SR @ 61.5', 61.8', 62.2', 62.5', 62.9', 63.0'  
90°, J, T, No, No, PI, SR @ 61.8-62.0', 62.0-62.5'  
shale partings - 0°, B, VN, PI, SR @ 62.0', 63.3'  
laminar bedding; w/shale parting @ 62.2-62.6'  
grades dark gray @ 62.5'  
grades light gray @ 62.6'  
some brecciation, healed @ 62.6-62.9'  
grades laminar bedding w/shale partings @ 62.9'  
shale partings - 0°, B, VN, PI, SR @ 63.6', 63.7', 63.8', 64.9'  
shale @ 65.3-65.4'  
shale partings - 0°, B, VN, PI, SR @ 65.3', 65.9'

66.4  
DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group). shale partings - 0°, B, VN, PI, SR @ 66.4', 67.0', 67.2', 67.3', 67.8', 68.0'  
shale parting; weathered @ 66.6'  
breccia, healed @ 66.6-66.7'  
90°, J, T, No, No, PI, SR @ 67.0-67.2'  
80°, J, T, No, No, PI, SR @ 67.8-68.1'  
70°, J, VN, No, No, PI, SR @ 68.8-69.1'  
40°, J, VN, anhydrite, Fi, PI, SR @ 69.7-70.1

pitted @ 73.0-74.0'

pitted & vuggy @ 74.4-75.1'  
50°, J, T, No, No, PI, SR @ 74.7-75.0'

Core box #4 starts @ 68.5'

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# BORING LOG

BORING NO. CB-C4

SHEET 6 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

LOGGED BY TB ECA TB for Bonnie/Ang/Mass		CHECKED BY TB m for Dogbey/Bonnie	APPROVED BY E.M. Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	5.0	4.7	100	94	75					
							76				breccia, healed, thin bedded @ 76.5-76.9'	
							77				45° J,T,No,No,Ir,R @ 76.8-77.0', 77.2-77.4'	
							78				BRECCIA; healed; (Bass Islands Group)	
											80° J,T,No,No,PI,SR @ 78.0-78.2'	
							79				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).	
							80				0° B,VN,No,No,PI,SR @ 79.4'	
							81				dolomite; argillaceous; grayish brown; micritic; fresh; strong; hard @ 79.8-80.0'	
HQ	12	5.0	5.0	3.3	100	66	81				30° J,VN,UK,Fi,PI,SR @ 79.95-80.1'	
											shale partings - 0° B,VN,PI,SR @ 80.0',80.9'	
							82				0° B,T,No,No,PI,SR @ 81.5', 82.3'	
											65° J,T,No,No,PI,SR @ 81.5-81.95'	
							83				90° J,T,No,No,WA,R @ 82.1-82.4'	
											shale partings - 0° B,VN,PI,SR @ 82.5',82.9'	Core box #5 starts @ 81.5'.
							84				10° B,T,No,No,PI,SR @ 83.2'	
											0° J,VN,No,No,Ir,SR @ 83.4'	
							85				DOLOMITE; argillaceous; dark gray & light gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
							86				SHALE; (Bass Islands Group).	
											brecciated, healed @ 84.3-84.8'	
HQ	13	5.0	5.0	3.4	100	68	86				DOLOMITE; argillaceous; dark gray & light gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
											0° B,T,No,No,PI,SR @ 84.4', 84.9'	
							87				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
											70° J,VN,anhydrite,Sp,PI,R @ 84.9-85.3', 86.0-86.3'	
							88				banded @ 84.9-86.0'	
											shale band @ 85.0-85.1'	
											shale partings - 0° B,VN,PI @ 85.5	
											anhydrite filled vugs @ 86.0-86.5'	
							89				85° J,T,UK,Sp,PI,SR @ 87.0-88.5'	
											90° J,T,No,No,PI,SR @ 88.5-89.4'	
											0° B,J,T,No,No,PI,SR @ 88.7', 89.1', 89.3'	
							90				grades light grayish brown @ 88.8'	

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# BORING LOG

BORING NO. CB-C4

SHEET 7 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY TB ECA TB for Bonnie/Ang/Mass	CHECKED BY TB TB Dogbey/Bonnie	APPROVED BY Meyer sm
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	5.0	3.0	100	60	90-91	490-489		10° J, VN, CI, Sp, WA, SR @ 90.7' 70° J, T, No, No, PI, SR @ 90.7-91.0' shale partings @ 91.0' shale partings - 0° B, VN, WA, SR @ 91.2', 91.3', 91.5', 91.6' pitted @ 91.2-91.3' 0° B, T, No, No, PI, SR @ 91.8' anhydrite filled healed fracture @ 92.0-92.3' shale parting @ 92.2' 0° B, T, No, No, PI, SR @ 93.0'	Core box #6 starts @ 93.5'	
			93.5				94	487		argillaceous @ 93.6-93.7' 0° B, T, No, No, PI, SR @ 93.7', 93.8', 93.9', 94.3' 90° J, T, No, No, PI, SR @ 93.7-93.9' convoluted bedding @ 94.2-94.7' 0° B, T, No, No, PI, SR @ 94.3' 0° B, T, No, No, PI, SR @ 94.9', 95.1', 95.3'		
HQ	15	5.0	4.6	1.7	92	34	95-96	486-485		fragmented @ 95.6-95.8' 20° J, T, No, No, PI, SR @ 95.8-96.05'		
			98.5				97	484		<b>DOLOMITE</b> ; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). shale partings - 0° B, VN, PI, SR @ 96.4', 96.8' 90° J, T, No, No, PI, SR @ 96.4-96.9'		
							98	483		shale partings - 0° B, VN, PI, SR @ 98.0', 98.1'		
							99	482		<b>DOLOMITE</b> ; gray; micritic; fresh; strong; hard; massive; w/stylolites; (Bass Islands Group). 30° J, T, No, No, PI, SR @ 98.9-99.1', 99.2-99.4' 0° B, T, No, No, PI, SR @ 99.5', 99.9', 100.1', 100.2', 100.3', 100.4', 101.2', 101.3' 90° J, T, No, No, PI, SR @ 100.3-100.4'		
HQ	16	5.0	5.0	2.9	100	58	100-101	481-480		90° J, T, No, No, Ir, SR @ 101.3-101.7' 90° J, T, No, No, PI, SR @ 101.3-101.7', 101.7-101.8' shale partings - 0° B, VN, PI, SR @ 101.65', 101.85'  0° B, T, No, No, PI, SR @ 102.4'		
							102	479				
							103	478				
			103.5				104	477		shale parting - 0° B, PI, SR @ 103.8' 40° J, T, No, No, PI, SR @ 104.2-104.4'		
							105	476	90° J, T, No, No, PI, SR @ 104.7-105.5'			

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BORING LOG

BORING NO. CB-C4

SHEET 8 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

LOGGED BY ECA TB for Bonnie/Ang/Mass		CHECKED BY EPA TB Dogbey/Bonnie	APPROVED BY Meyer FM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	17	5.0	4.8	2.7	96	54	105		105		shale partings - 0°, B, T, PI, SR @ 104.7', 105.5', 105.6'		
							106		475		80°, J, T, No, No, PI, SR @ 105.55-106.6'		
							107		474		shale parting - 0°, B, T, PI, SR @ 106.6'		
							108		473		shale parting - 0°, B, T, PI, SR @ 107.9'		
			108.5				109		472		shale partings - 0°, B, VN, PI, SR @ 108.7', 108.9'	Core box #7 starts @ 108.5'	
							110		471		grades grayish brown @ 109.5'		
HQ	18	5.0	4.9	3.1	98	62	111		470				
							112		469		10°, J, T, No, No, PI, SR @ 112.0'		
							113		468		20°, J, T, No, No, PI, SR @ 112.1'		
							113		468		30°, J, T, anhydrite, Sp, PI, SR @ 112.2-112.3'		
							113		468		80°, J, T, No, No, PI, SR @ 112.7-113.2'		
							113		468		0°, B, T, No, No, PI, SR @ 112.7', 112.8', 113.3'		
			113.5				114		467		90°, J, T, anhydrite, Sp, PI, SR @ 113.5-115.0'		
							115		466		70°, J, T, No, No, PI, SR @ 114.7-114.9'		
HQ	19	5.0	3.7	1.4	74	28	116		465		shale partings - 0°, B, VN, PI, SR @ 115.3', 115.7', 116.0'		
							116		465		40°, J, T, No, No, PI, SR @ 116.0-116.1'		
							117		464				
							118		463				
			118.5				119		462		DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							119		462				
							120		461		90°, J, T, No, No, PI, SR @ 119.1-119.6'		
							120		461		DOLOMITE; grayish brown & gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F).		

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# BORING LOG

BORING NO. CB-C4

SHEET 9 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

LOGGED BY TB ECA TB for Bonnie/Ang/Mass		CHECKED BY E TB TB Dogbey/Bonnie	APPROVED BY Fm Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	20	5.0	4.1	0.3	82	6	120				0°, B, T, No, No, PI, SR @ 119.2', 119.4', 119.55', 119.6', 119.7'		
							121				DOLOMITE; gray; micritic; fresh; strong; hard; w/ bands of anhydrite; (Salina Group - Unit F).		
							122				0°, B, T, No, No, PI, SR @ 120.1', 120.4', 120.5', 120.9', 121.1', 121.3'		
							123				80°, J, T, No, No, PI, SR @ 120.6-120.8', 121.3-121.6', 122.5-122.7'		
			123.5				124				anhydrite beds @ 121.1-121.15', 121.25-121.3', 121.7-121.8', 121.8-121.9', 121.9-122.0', 122.2-122.3', 122.5-122.6', 122.9-123.0'	Core box #8 starts @ 123.5'	
							125				0°, B, VN, Ca, Fi, PI, SR @ 122.2'		
							126				fractured @ 122.5-122.6'		
HQ	21	5.0	5.0	2.3	100	46	127				10°, J, T, No, No, PI, SR @ 123.0'		
							128				fractured @ 123.0-123.3'		
							129				anhydrite beds @ 123.8-123.9', 124.6-124.8'		
							130				0°, B, T, No, No, PI, SR @ 124.0', 124.2', 125.3', 126.0', 126.7', 127.1', 127.7', 127.8', 128.1'		
							131				10°, J, T, No, No, PI, SR @ 125.8'		
							132				grayish brown; w/anhydrite beds @ 126.1-126.7'		
							133				light gray; micritic; fresh; strong; hard; thin limestone bed @ 127.1-127.4'		
							134				fractured @ 127.3-127.4'		
							135				light gray; micritic; fresh; strong; hard; thin limestone bed @ 127.7-127.8'		
			128.5				136				LIMESTONE; light gray; micritic; fresh to slightly weathered; strong; hard; (Salina Group - Unit F).		
							137				0°, B, T, No, No, PI, SR @ 129.9', 130.1', 130.2', 130.3', 130.5'		
							138				0°, B, T, No, No, PI, SR @ 131.2', 131.5', 131.7', 131.8'		
							139				90°, J, T, No, No, PI, SR @ 131.9-132.0'		
							140				0°, B, T, No, No, PI, SR @ 132.0'		
							141				claystone; highly weathered @ 132.1-132.7'		
							142				vuggy @ 133.1'		
							143				0°, B, T, No, No, PI, SR @ 133.3'		
			133.5				144					Bottom of boring @ 133.5'. Water level @ 21.2' @ completion of drilling. Boring	

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C4

SHEET 10 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6230.3'	GROUND ELEVATION (DATUM) E 4663.3'	TOTAL DEPTH 133.5 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 08/08/07

SAMPLING		LOGGED BY ECA TB for Bonnie/Ang/Mass	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							135						
							136			445			
							137			444			
							138			443			
							139			442			
							140			441			
							141			440			
							142			439			
							143			438			
							144			437			
							145			436			
							146			435			
							147			434			
							148			433			
							149			432			
							150			431			

backfilled w/ bentonite chips on 09/13/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C5  
SHEET 1 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

SAMPLING		LOGGED BY <i>EAH</i> Mass/Ang/Grainger	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		581			Well-graded <u>GRAVEL</u> with Sand (GW) - About 70% fine to coarse, angular to subrounded, hard gravel w/ max. size 3"; about 25% fine to coarse, angular to subangular, hard sand; about 5% angular, hard cobbles w/max. size 4"; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1		580				
							2		579				
							3		578				
							4		577				
							5		576				
			6.0				6		575			Well-graded <u>GRAVEL</u> with Silt and Sand (GW) - About 75% fine to coarse, angular to subrounded, hard gravel w/max. size 3"; about 15% fine to coarse, angular to subangular, hard sand; about 10% low plasticity, low toughness, rapid dilatancy, low dry strength fines; brown; weak reaction w/HCl; (Fill).	Stopped vacuum excavation @ 6.0'. Hole caved to 1.9'. Continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S-1.
S	1					NR	7		574				
							8		573				
							9		572				
			10				10		571			Well graded <u>GRAVEL</u> with Sand (GW) - About 70% fine to coarse, angular to subrounded, hard gravel w/ max. size 3"; about 25% fine to coarse, angular to subangular, hard sand; about 5% angular, hard cobbles w/max. size 4"; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Set nominal 6" temporary steel casing to 10.0'. Below 10.0' continued w/NWJ rods and 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Approximately 100 gallons drilling fluid loss @ 11.5'. Below 11.5' continued w/4" ID
SPT	2	7	9	3	12	0.8	11		570				
							12		569				
			11.5				13		568			Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; olive gray; soft to firm; moist; homogeneous; (Lacustrine Deposit).	
S	3					2.3	14		567				
							15		566				

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# BORING LOG

BORING NO. CB-C5

SHEET 2 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

SAMPLING		LOGGED BY <i>For BO FO for</i> Mass/Ang/Granger	CHECKED BY <i>for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
TW	4		15.0			15.0		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; hard; moist; (Glacial Till).	sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 12.3'. PP = 1.25 TSF @ 13.0'. Discrete sample S3A collected @ 14.5-15.0'. Below 15.0' continued w/NWJ rods w/4 1/2" tricone bit using bentonite mud as drilling fluid. PP = 3.25-3.75 TSF @ 17.5'. PP > 4.5 TSF @ 20.0'. Thin walled tube for TW-6 slipped off connecting rods into hole; TW-6 retrieved by overdrilling w/ sonic rig.				
TW	5					17.5		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; trace fine to coarse, subrounded sand; trace fine to coarse, subrounded gravel w/max. size 1/2", fractured w/2 hammer blows; olive brown; hard; moist; (Glacial Till).	Below 22.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S7A collected from 23.5-24.0'. PP > 4.5 TSF for S7.				
TW	6					20.0			Below 24.5' continued w/NWJ rods w/4 1/2" tricone bit using bentonite mud as drilling fluid. Approximately 200 gallons drilling fluid lost @ 24.5'.				
S	7		22.5			22.5		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded, hard gravel, w/max. size 2 1/2"; about 10% fine to coarse, subrounded sand; dark gray; hard; moist; (Glacial Till). 4" cobble @ about 23.5'.					
			24.5			24.5		DOLOMITE; weathered					
			26.5			26.5		DOLOMITE; light brownish gray; crystalline; micritic; fresh; strong; hard; (Bass Islands Group).					
S	8					30.0							

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# BORING LOG

BORING NO. CB-C5

SHEET 3 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

LOGGED BY <i>TB for EA 60 for Mass/Ang/Grainger</i>		CHECKED BY <i>FM for TB Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							30		551				Refusal to tricone bit @ 26.5'. Below 26.5' continued w/4" ID sonic sampler w/nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 30.7'. Sonic core stored in box labeled SC1. Hole opened to 31.0'. Below 31.0' continued w/triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 31.0'.
PQ	1	5.0	5.0	0.8	100	16	31		550			DOLOMITE; grayish brown; crystalline; micritic; slightly weathered; strong; hard; thin bedded; (Bass Islands Group). 20° B, MW, UK, Su, PI, R @ 31.2', 32.0', 32.5', 32.8' 80° J, N, No, No, Ir, R @ 32.0-37.8' fractured @ 32.0-34.4'	Core box #2 starts @ 40.0'.
PQ	2	5.0	5.0	3.2	100	64	36		545			DOLOMITE; white & dark gray, mottled; micritic; fresh; very strong; hard; thin bedded; (Bass Islands Group). 80° J, N, No, No, Ir, VR @ 36.2-37.8', 38.2-39.6' 20° B, MW, UK, Su, PI, R @ 37.2' 80° J, N, No, No, Ir, R @ 37.2'	
PQ	3	5.0	4.9	3.6	98	72	41		540			0° B, MW, UK, Su, Ir, R @ 40.8', 41.0', 41.2', 41.3', 41.4' 20° B, MW, UK, Su, PI, R @ 41.3' 80° J, N, No, No, Ir, VR @ 41.5-42.2'	
							42		539			0° B, MW, UK, Su, Ir, R @ 42.4'	
							43		538				
							44		537				
							45		536				



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**BORING LOG**

BORING NO. CB-C5

SHEET 4 OF 9

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6123.0'					E 4663.4'					581.0 ft (NAVD 88)		131.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot, northeast corner										Plant					07/17/07		07/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										for <i>GA</i> <i>GA</i> <i>GA</i> Mass/Ang/Grainger					for <i>TB</i> Dogbey/Bonnie					for <i>EM</i> Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
							45		536		DOLOMITE; oolitic; light brownish gray; crystalline; fresh; strong; hard; w/stylolites; (Bass Islands Group).										
			46.0				46		535		intersecting 90°, J,N,No,No,Ir,R @ 46.0-48.5' 0°, B,N,No,No,Ir,R @ 46.1',46.2',46.5',47.2'										
							47		534												
							48		533		0°, B,N,No,No,Ir,R @ 47.7',47.9', 0°, B,N,No,No,Ir,R @ 48.4',48.8',49.0'										
PQ	4	5.0	5.0	1.3	100	26	49		532												
							50		531		0°, B,N,No,No,Ir,R 49.5' intersecting 90°, J,N,No,No,Ir,R @ 49.8-51.0'	Core box #3 starts @ 49.3'									
			51.0				51		530		DOLOMITE; dark grayish brown; micritic; fresh; slightly weathered; strong; hard; (Bass Islands Group). 0°, B,N,No,No,Ir,R @ 50.0',50.3',50.4'										
							52		529		DOLOMITE; oolitic; light brownish gray; crystalline; fresh; strong; hard; massive; w/argillaceous parting @ depth; massive; (Bass Islands Group). 0.2' black shale band; moderately weathered @ 51.3'										
PQ	5	5.0	5.0	4.3	100	86	53		528		10°, B,N,No,No,PI,R @ 53.4',54.7'										
							54		527		argillaceous parting @ 54.2',54.5'										
							55		526		80°, J,N,No,No,Ir,R @ 54.7',55.0'										
							56		525		DOLOMITE; argillaceous; gray; fresh; strong; hard; banded w/stylolites; (Bass Islands Group). convoluted bedding @ 55.1-57.9' 10°, B,N,No,No,PI,R @ 55.6' 85-90°, J,T,No,No,Ir,R @ 56.0-58.7' 0-5°, B,N,Cl,Su,Ir,R @ 56.1',56.5'										
			56.0				57		524												
							58		523		0-5°, B,N,Cl,Su,Ir,R @ 57.6',57.9',58.1'										
PQ	6	5.0	5.0	2.3	100	46	59		522			Core box #4 starts @ 58.8'									
							60		521		0-5°, B,N,Cl,Su,Ir,R @ 59.3',59.5' 85-90°, J,T,No,No,Ir,R @ 59.5-61.0'										



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# BORING LOG

BORING NO. CB-C5

SHEET 5 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

LOGGED BY <i>TA for EA G.O.C. / Mass/Ang/Grainier</i>		CHECKED BY <i>EM for TB Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							60		521		fractured @ 59.5-63.1' 0-5° B,N,Ci,Su,Ir,R @ 60.0',60.4',60.7'		
			61.0				61		520		85-90° J,N,No,No,Ir,VR @ 60.8-63.1' 0-5° B,UK,Sp,WA,R @ 61.3',61.4',61.7',61.9',62.4'	No drilling fluid return @ 60.8-61.0'.	
							62		519				
							63		518		0-5° B,UK,Sp,WA,R @ 62.6',62.8',63.1'		
PQ	7	5.0	5.0	2.8	100	56	64		517		<u>DOLOMITE</u> ; brecciated; grayish brown; fresh; strong; hard; healed w/calcite; pitted in areas; (Bass Islands Group).		
							65		516				
			66.0				66		515				
							67		514		60° J,MW,No,No,Ir,VR @ 67.0',67.2',67.4'		
PQ	8	5.0	5.0	3.5	100	70	68		513			Core box #5 starts @ 67.6'.	
							69		512		0-5° J,No,No,Ir,VR @ 69.2',69.8'		
							70		511				
							71		510		0-5° J,No,No,Ir,VR @ 70.3' 0° B,W,Ci,Fi,Ir,VR @ 70.5'		
			71.0				72		509		<u>DOLOMITE</u> ; light gray; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group). 60° J,MW,No,No,Ir,VR @ 71.7' 0° B,MW,No,No,WA,R @ 71.8',72.0',72.7',73.0',73.3'		
							73		508				
PQ	9	5.0	5.0	4.0	100	80	74		507		0° B,MW,No,No,WA,R @ 74.0',75.0',75.5'		
							75		506				



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# BORING LOG

BORING NO. CB-C5

SHEET 6 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

LOGGED BY <i>WA 60 for</i> Mass/Ang/Grainger		CHECKED BY <i>EM for</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								75		506			
			76.0					76		505		85-90°, J,N,No,No,Ir,R @ 76.0' 0°, B,N,Sp,Pl,R @ 76.2'	Core box #6 starts @ 76.2'
								77		504		0°, B,N,Sp,Pl,R @ 77.4', 77.5'	
								78		503		0°, B,N,Sp,Pl,R @ 77.9, 78.2'	
PQ	10	5.0	5.0	2.8	100	56		78.2		502		SHALE; dark gray; slightly weathered; strong; moderately hard; weathered to soft clay seam @ top; (Bass Islands Group). 0°, B,N,Sp,Pl,R @ 78.5'	
								79.0		501		DOLOMITE; dark gray; fresh to slightly weathered; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). fractured @ 79.1-79.4' 0°, B,N,Sp,Pl,R @ 79.0'	Soft material @ 79.5-81.0'
			81.0					81		500		80°, J,N,H,No,Ir,VR @ 80.0', 81.0' 0°, B,N,Sp,Pl,R @ 80.0'	
								82		499		80°, J,N,H,No,Ir,VR @ 81.8'	
								83		498		0-5°, B,MW,No,No,Ir,R (solutioned) @ 82.7'	
PQ	11	5.0	5.0	3.4	100	68		84		497		0-5°, B,W,Ci,Pa,Ir,R @ 83.3'	
								85		496		0-5°, B,MW,No,No,Ir,R (solutioned) @ 83.9'	
								86		495		0-5°, B,MW,No,No,Ir,R (solutioned) @ 85.5', 85.7'	
			86.0					86		495		85-90°, J,T,H,Ir @ 86.3-86.7'	Core box #7 starts @ 86.0'
								87		494			
								88		493		SHALE; dark gray; (Bass Islands Group). shale parting weathered to residual soil; hard; moist @ 87.9'	
PQ	12	5.0	5.0	3.1	100	62		88.3		492		DOLOMITE; dark gray; fresh to slightly weathered; very strong; hard; banded w/stylolites & argillaceous partings; (Bass Islands Group). 0-5°, B,MW,No,No,Ir,R (solutioned) @ 88.1', 88.2', 88.3'	
								89		492			
								90		491			

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# BORING LOG

BORING NO. CB-C5

SHEET 7 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4' 581.0 ft (NAVD 88)	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

SAMPLING		LOGGED BY <i>EA</i> Mass/Ang/Grainger	CHECKED BY <i>im for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							90		491		0-5° B,MW,No,No,PI,R (solutioned) @ 88.3',88.5' 85-90° J,T,H,Ir @ 88.8-90.4'	
			91.0				91		490		0-5° B,MW,No,No,PI,R (solutioned) @ 89.7' 0-5° B,MW,No,No,PI,R (solutioned) @ 90.0',90.1'	
PQ	13	5.0	5.0	2.1	100	42	92		489		fractured @ 92.1-93.4'	
							93		488		0° B,N,No,No,PI,SR @ 92.1',92.3',92.4',92.5',92.6', 92.7', 92.75',92.9',93.0',93.05',93.1',93.2',93.4' 60° J,T,No,No,Ir,R @ 92.3', 92.7' 90° J,T,No,No,Ir,R @ 92.6-93.4', 94.0-94.3'	
							94		487		0° B,N,No,No,PI,SR @ 94.0',94.3',94.35'	
							95		486		DOLOMITE; gray; crystalline; micritic; fresh; very strong; hard; medium to thick bedded; (Bass Islands Group).	
			96.0				96		485		0° B,N,No,No,PI,SR @ 94.7',94.8',95.3',95.5' 90° J,T,No,No,Ir,R @ 95.5-96.5' (2 intersecting)	Core box #8 starts @ 96.0'
							97		484		½" shale band; partly weathered to soft white clay @ 96.4'	
PQ	14	5.0	5.0	2.6	100	52	98		483		0° B,T,No,No,PI,SR @ 96.7', 96.8', 97.1' 60° J,T,No,No,PI,SR @ 96.8' 90° J,N,No,No,Ir,R @ 97.1-98.3', 98.7-99.1', 100.8-101.3'	
							99		482		0° B,N,No,No,Ir,SR (solutioned) @ 98.3',99.1',99.2'	
							100		481		0° B,N,No,No,Ir,SR (solutioned) @ 100.1'	
							101		480		0° B,N,No,No,Ir,SR (solutioned) @ 100.8'	
			101.0				102		479		0° B,N,No,No,Ir,SR (solutioned) @ 101.4'	
							103		478		0° B,N,No,No,Ir,SR (solutioned) @ 102.0',102.3' soft; weathered @ 102.4-103.2'	Soft drilling @ 102.4-103.2'. Core barrel blocked @ 102.4'.
PQ	15	5.0	4.7	3.2	94	64	104		477		0° B,N,No,No,Ir,SR (solutioned) @ 103.2',103.5'	Core loss @ 102.4-103.5'.
							105		476		DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; strong; hard; w/argillaceous parting & stylolites; bedding convoluted; (Bass Islands Group).	

7/11/2008 2:52 P.m. DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C5

SHEET 8 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4' 581.0 ft (NAVD 88)	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07

LOGGED BY <i>TBLer</i> <i>GA</i> <i>GO</i> Mass/Ang/Grainger		CHECKED BY <i>EM</i> <i>TC</i> <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	16	5.0	4.6	1.9	92	38	105		476				
			106.0				106		475				Soft drilling @ 106.0-110.0'. Core box #9 starts @ 106.0'.
							107		474				
							108		473				
							109		472				
							110		471				
			111.0				111		470				
							112		469				
PQ	17	5.0	4.4	0.5	88	10	113		468				
							114		467				
							115		466				
			116.0				116		465				Soft drilling @ 116.0-121.0'. Core box #10 starts @ 116.0'.
							117		464				
							118		463				
PQ	18	5.0	1.5	0.0	30	0	119		462				
							120		461				

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# BLACK & VEATCH

# BORING LOG

BORING NO. CB-C5

SHEET 9 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6123.0'	GROUND ELEVATION (DATUM) E 4663.4'	TOTAL DEPTH 131.0 (feet)
SURFACE CONDITIONS Gravel parking lot, northeast corner		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/28/07
SAMPLING		LOGGED BY <i>Mass/Ang/Grainger</i>	CHECKED BY <i>Doobey/Bonnie</i>	APPROVED BY <i>Meyer</i>

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							120		461				
			121.0				121		460				
PQ	19	2.5	2.5	0.5	100	20	122		459			DOLOMITE & ANHYDRITE; interbedded material & color; pale brownish gray & white; fresh; moderately strong; moderately hard; w/vugs filled w/anhydrite crystals; (Salina Group - Unit F).	
							123		458			DOLOMITE; gray; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F).	
			123.5				124		457			LIMESTONE; argillaceous; dark gray; moderately weathered; moderately strong; moderately hard; vuggy; w/bands of clayey dolomite; gray; thin bedded; (Salina Group - Unit F).	
PQ	20	2.5	2.2	0.0	88	0	125		456			clayey dolomite band; highly weathered; w/clay in area; medium toughness, slow dilatancy, high dry strength fines @ 123.5-123.7'	Drill chatter @ 124.0-126.0'
			126.0				126		455				
							127		454				
PQ	21	5.0	2.6	0.0	52	0	128		453			CLAYSTONE; dolomitic; gray; moderately weathered; weak; low hardness; thin bedded; w/bands of micritic dolomite; (Salina Group - Unit F). fractured @ 127.7-131.0' 90°, J, Ir, R @ 128.0-129.0'	Core loss @ 126.0-127.0'
							129		452				
							130		451				
							131		450				
							132		449				
							133		448				
							134		447				
							135		446				

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**BLACK & VEATCH**

**BORING LOG**

BORING NO. CST-AB1  
SHEET 1 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6577.6'	GROUND ELEVATION (DATUM) E 4331.1'	TOTAL DEPTH 580.2 ft (NAVD 88) 30.8 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 08/25/07	DATE FINISHED 08/25/07

LOGGED BY TB Bonnie/Grainger		CHECKED BY EM Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		580		COBBLES - About 90% subangular to angular cobbles w/max. size 6"; about 5% fine to coarse gravel; about 5% sand; grayish brown; dry; weak reaction w/HCl; (Fill).	Boring advanced w/vacuum excavation.
							1		579				
							2		578				
							3		577				
							4		576				
							5		575				
							6		574				
			7.0				7		573			Below 7.0' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler.	
S	1					1.4	8		572				
							9		571				
							10		570				
			10.0				11		569				
							12		568				
S	2					3.0	13		567				
							14		566				
							15		566				
												Organic SOIL with gravel (OL) - About 80% nonplastic, no dilatancy fines; about 20% fine, angular gravel; very dark grayish brown; very soft; moist; no reaction w/HCl;	Discrete sample S-2A collected @ 13.8-14.2'. Discrete sample



# BLACK & VEATCH

# BORING LOG

BORING NO. CST-AB1

SHEET 2 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6577.6'	GROUND ELEVATION (DATUM) E 4331.1'	TOTAL DEPTH 30.8 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 08/25/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY TB Bonnie/Grainger	CHECKED BY TB Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
TW	3		15.0				15		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; very dark greenish gray; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit). grades about 91% LL=54, PL=17 fines; about 9% sand.	S-2B collected @ 14.2-15.0'. Set nominal 6" temporary steel casing to 15.5'. Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 0.25 TSF @ 17.5'
						1.5	16	564				
							17	563				
SPT	4	4	8	10	18	1.4	18	562			Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; dark grayish brown; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	SPT performed w/D-50 automatic hammer. PP = 0.25 TSF @ 17.5'
							19	561				
							20	560				
TW	5					1.2	21	559			Lean CLAY (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; about 5% fine to medium, angular, hard; gravel; dark gray; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP > 4.5 TSF @ 21.7'.  Drill chatter @ 22.5'.
							22	558				
							23	557				
SPT	6	8	12	14	26	NR	26	554				
							27	553				
							28	552				
							29	551				
							30					



# BLACK & VEATCH

# BORING LOG

BORING NO. CST-AB1  
SHEET 3 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6577.6'	GROUND ELEVATION (DATUM) E 4331.1'	TOTAL DEPTH 30.8 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 08/25/07	DATE FINISHED 08/25/07

LOGGED BY TB <i>Bohnie/Grainger</i>		CHECKED BY TB <i>Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	7	50/4"	-	-	50+	0	30		550			
							31		549			Bottom of boring @ 30.8'. Water level @ 13.6' @ completion of drilling. Boring backfilled w/ bentonite chips to 2.0'. Top filled w/gravel.
							32		548			
							33		547			
							34		546			
							35		545			
							36		544			
							37		543			
							38		542			
							39		541			
							40		540			
							41		539			
							42		538			
							43		537			
							44		536			
							45					



# BLACK & VEATCH

# BORING LOG

BORING NO. CT-E1

SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6061.8'	GROUND ELEVATION (DATUM) E 4942.6'	TOTAL DEPTH 26.5 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>scb</i> Grainger	CHECKED BY <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0				<p><b>COBBLES</b> - About 60% angular, elongated to cubical, hard cobbles w/max. size 12"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; light gray; moist; strong reaction w/HCl; homogeneous; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p>
							1					
							2					
							3					
							4					
							5					
							6					
			6.0				7					
							8					
							9					
							10					
			10.0				11					
							12					
							13					
							14					
							15					
S	1					1.5					<p>Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample SC-1 collected from S1.</p>	
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					
							11					
							12					
							13					
							14					
							15					
S	2					3.0						

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# BLACK & VEATCH

# BORING LOG

BORING NO. CT-E1

SHEET 2 OF 2

CLIENT Detroit Edison	PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6061.8' E 4942.6'	GROUND ELEVATION (DATUM) 579.9 ft (NAVD 88)
SURFACE CONDITIONS Paved parking lot	COORDINATE SYSTEM Plant	DATE START 08/23/07
		DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>G.P. Grainger</i>	CHECKED BY <i>E.M. Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD							
TW	3		16.0			1.6	15.0 - 16.0		564			Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown, mottled; firm; moist; weak reaction w/HCl; homogeneous; trace fibrous material. fibrous material grades out @ 15.5'	Core barrel dropped in soft clay from 15.0-16.0'. Discrete sample SC-2 collected from S2. Set nominal 6" temporary steel casing to 16.0'. Below 16.0' advanced w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D50 automatic hammer. PP = 3.25 TSF @ 18.0'. Lost drilling fluid return @ 18.0'.
SPT	4	7	7	11	18	1.3	18.3 - 20.0		561 - 560			Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, rounded, hard sand; brown; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
TW	5					2.1	21.9 - 23.0		559 - 557			Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 10% angular, fine to coarse, hard gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	TW-5 refusal @ 23.0'. PP > 4.5 TSF @ 23.0'.
SPT	6	50/0.2	-	-	50+	NR	26.5 - 26.5		554				Tricone bit refusal @ 26.5'. Bottom of boring @ 26.5'. Water level @ 7.6' @ completion of drilling. Boring caved @ 26.0'. Boring backfilled w/bentonite chips on 08/23/07 to 1.5' bgs then gravel to surface.
							27.0 - 27.0		553				
							28.0 - 28.0		552				
							29.0 - 29.0		551				
							30.0 - 30.0		550				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6579.3'	GROUND ELEVATION (DATUM) E 4697.2'	TOTAL DEPTH 50.5 (feet)
SURFACE CONDITIONS Level, gravel surface/roadway		COORDINATE SYSTEM Plant	DATE START 06/16/07	DATE FINISHED 08/27/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		581		Poorly graded GRAVEL with Cobbles (GP) - About 60% fine to coarse, angular, hard gravel w/max. size 3"; about 20% angular, elongated, hard cobbles w/max. size 12"; about 15% fine to coarse, angular, hard sand; about 5% fines; (Fill).	Boring advanced w/vacuum excavation.
			5.0				5	576	grades w/boulders @ 5.0'				
							6	575					
							7	574					
							8	573					
							9	572					
							10	571					
							11	570					
							12	569					
							13	568					
							14	567					
							15	567					

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# BLACK & VEATCH

# BORING LOG

BORING NO. EB/TSC-C2

SHEET 2 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6579.3'	GROUND ELEVATION (DATUM) E 4697.2'	TOTAL DEPTH 50.5 (feet)
SURFACE CONDITIONS Level, gravel surface/roadway		COORDINATE SYSTEM Plant	DATE START 06/16/07	DATE FINISHED 08/27/07

SAMPLING		LOGGED BY <i>EM for TB</i> Grainger/Bonnie/Mass		CHECKED BY <i>EM for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
TW	1		15.5			0.9	15		566		Lean CLAY (CL) - About 90% low plasticity, low toughness, no dilatancy, very high dry strength fines; about 10% fine to coarse, subrounded to angular, hard sand; brown; very soft; moist; weak organic (swampy) odor; strong reaction w/HCl; homogeneous; (Glacial Till).	Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.5 TSF @ 17.5'. TV = 0.87 TSF @ 17.5'.
SPT	2	7	11	15	26	1.5	19		562		grades w/ trace fine, angular, hard gravel & wood fragments; brown & yellowish brown; very stiff; no odor; w/fine sand lenses	
TW	3	1.6				1.6	21		560		Lean CLAY (CL) - About 70% low plasticity, medium toughness, no dilatancy, high dry strength fines; about 25% fine to coarse, subrounded to angular, hard sand; about 5% fine, subangular to angular, hard gravel; dark gray & brown, mottled; hard; moist; strong reaction w/HCl; (Glacial Till).	TW3 could not be retrieved. Used sonic rig to retrieve tube. Sonic sample advanced from 22.6-24.0'. Water level @ 16.8' prior to drilling on 08/21/07. Discrete sample S4 collected @ 23.6-23.8'. Below 24.0' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid.
S	4		22.6			1.4	23		558		grades w/subangular, very hard, dolomite cobbles w/ max. size 3.5" @ 22.6'	
SPT	5	9	13	23	36	1.3	25		556		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, subrounded to angular, hard sand; about 5% fine, subangular, hard gravel; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
SPT	6	11	16	17	33	1.3	28		553		Clayey SAND (SC) - About 75% fine to coarse, subangular to angular, hard sand; about 25% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; light olive brown; hard; wet; strong reaction w/HCl; grades courser w/ depth; (Glacial Till).	
S	7		29.0			1.5	29		552		Sandy Lean CLAY (CL) - About 65% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 35% fine to coarse, angular,	Tricone refusal @ 29.0'. Core box #1

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# BLACK & VEATCH

# BORING LOG

BORING NO. EB/TSC-C2

SHEET 3 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6579.3'	GROUND ELEVATION (DATUM) E 4697.2'	TOTAL DEPTH 50.5 (feet)
SURFACE CONDITIONS Level, gravel surface/roadway		COORDINATE SYSTEM Plant	DATE START 06/16/07	DATE FINISHED 08/27/07

LOGGED BY <i>CO</i> Grainger/Bonnie/Mass		CHECKED BY <i>CO</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	1	5.0	5.0	2.3	100	46	30		551		hard sand; gray; hard; wet; strong reaction w/HCl, homogeneous; (Glacial Till).	starts @ 29.0'. Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. No drilling fluid return @ 34.0'. Core box #2 starts @ 35.5'.	
			30.5				31		550		DOLOMITE; gray; micritic; fresh; very strong; hard; highly fractured; (Bass Islands Group).		
							32		549		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 90° J,T,No,No,PI,SR @ 30.7-32.3' 0° J,VN,CI,Sp,PI,SR @ 31.4' highly fractured @ 31.8-32.1'		
							33		548		shale partings - 0° B,VN,PI,SR @ 32.3',33.5' 90° J,T,No,No,PI,SR @ 32.8-33.5' fractured @ 32.8-33.5'		
							34		547				
							35		546		0° J,VN,No,PI,SR @ 34.6'		
			35.5				36		545				
PQ	2	5.0	4.9	1.8	98	36	37		544		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). highly fractured, clay filled @ 37.0-37.1' 70°-80° J,T,No,No,Ir,R @ 37.1-37.8' some scattered vugs, anhydrite filled @ 37.6-38.5' 0° B,VN,No,No,PI,SR @ 37.8'		
							38		543		fossils @ 37.8' shale partings - 0° B,VN,PI,SR @ 38.0', 38.8', 39.1', 39.2', 39.5', 39.6', 39.7', 39.8', 39.9'		
							39		542		10° B,VN,No,No,PI,SR @ 38.2' 90° J,T,No,No,PI,SR @ 38.6-39.1'		
							40		541	DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).			
			40.5				41		540	90° J,T,No,No,PI,SR @ 41.2-41.4', 42.0-42.7' 0° B,VN,No,No,PI,SR @ 41.2', 41.4', 42.0', 42.5', 42.7', 42.9', 43.4', 44.0'			
							42		539	light brownish gray @ 41.6-42.1'			
PQ	3	5.0	5.0	3.8	100	76	43		538	DOLOMITE; light gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).			
							44		537				
							45		537	shale parting - 0° B,VN,PI,SR @ 44.6'	Core box #3 starts @ 44.2'.		

3/31/2008 6:57 PM DTE - Fermi 3 Geotech



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6579.3'	GROUND ELEVATION (DATUM) E 4697.2'	TOTAL DEPTH 50.5 (feet)
SURFACE CONDITIONS Level, gravel surface/roadway		COORDINATE SYSTEM Plant	DATE START 06/16/07	DATE FINISHED 08/27/07

LOGGED BY <i>Geo Tech</i> Grainger/Bonnie/Mass		CHECKED BY <i>Geo Tech</i> Dogbey/Bonnie	APPROVED BY <i>Geo Tech</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	4	5.0	4.8	2.7	96	54	45		536		50°, J, VN, No, No, PI, SR @ 44.7-45.0'		
			45.5				46		535		shale partings - 0°, B, VN, PI, SR @ 46.0', 47.8', 48.1' fractured @ 46.0-46.2'		
							47		534		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, B, VN, No, No, PI, SR @ 46.2', 47.2'	46.1	
							48		533		60°, J, T, No, No, PI, SR @ 46.8-47.0', 46.8-46.9'		
							49		532		shale parting @ 48.0'	48.1	
							50		531		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, B, VN, PI, S @ 48.65', 49.4' brecciated, healed @ 48.8-48.9' mottled @ 49.3-49.5'		
							51		530		55°, J, T, No, No, PI, SR @ 49.4'-49.5' grades w/stylolites @ 49.5'		
							52		529		40°, J, T, No, No, PI, SR @ 49.9-50.1'		
							53		528		90°, J, T, No, No, PI @ 50.0-50.5'		
							54		527		grades mottled @ 50.1'		
							55		526				
							56		525				
							57		524				
							58		523				
							59		522				
							60						

Bottom of boring @ 50.5'. Water level @ 14.45' @ completion of drilling. Boring caved @ 49.35'. Piezometer installed on 09/11/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. EB/TSC-E3

SHEET 1 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING			LOGGED BY <i>6/10/07 TB for Grainger/Mass</i>	CHECKED BY <i>5/21/07 TB for Dogbey/Mass</i>	APPROVED BY <i>FM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0					ASPHALT	Boring advanced w/vacuum excavation.
							1			581		COBBLES - About 50% angular, elongated to rounded, very hard cobbles, max size 8"; about 25% fine to coarse, angular, elongated to rounded gravel, max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	
							2			580			
							3			579			
							4			578			
							5			577			
							6			576			
			6.0				7			575			Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample SC1 collected @ 8.0-8.2'.
S	1					2.5	8			574			
							9			573			
							10			572			
			10.0				11			571			
							12			570			
							13			569		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown, mottled; firm; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	Discrete sample SC2 collected @ 12.9-13.2'.
S	2					5.0	14			568			
							15			567		dark gray, organic lean clay @ 14.0-15.0'	



# BLACK & VEATCH

# BORING LOG

BORING NO. EB/TSC-E3

SHEET 2 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>EB for</i> Grainger/Mass	CHECKED BY <i>EB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE		SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER												
TW	3						0.6	15		566		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fine to medium sand; gray & grayish brown, mottled; hard; moist; weak reaction w/HCl; (Glacial Till).	Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.0 TSF @ 17.5' TV = 0.6 TSF @ 17.5'
SPT	4	6	7	11	18		1.5	19		563		grades brown and gray, banded; homogeneous	
TW	5						1.4	21		561		Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 30% fine to coarse, subangular to angular, hard sand; light brownish gray; hard; moist; weak reaction w/HCl; homogeneous; (Glacial Till).	
SPT	6	11	16	17	33		1.3	24		558		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 35% fine to coarse, subangular to angular, hard sand; about 5% fine, subangular, hard gravel; gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP > 4.5 TSF @ 23.0' TV = 0.67 TSF @ 23.0'
SPT	7	20	11	13	24		0.5	27		555		Clayey SAND (SC) - About 70% fine to coarse, subangular to angular, hard sand; about 30% medium plasticity, medium toughness, no dilatancy, high dry strength fines; trace fine to coarse, subangular, flat, hard gravel; grayish brown; medium dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	Spoon blocked while taking SPT 7.
								28.0		554		hydrocarbon odor @ 28.0-28.7'	Below 28.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel
S	8						3.0	29		553		DOLOMITE; grayish brown, banded; very fine grained; fresh; very strong; hard; (Bass Islands Group).	
								30		552			

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BORING LOG

BORING NO. EB/TSC-E3

SHEET 3 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

LOGGED BY <i>EM for TB for Grainger/Mass</i>		CHECKED BY <i>EM for TB for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								30					casing advanced w/sampler.
			30.5					31		551		DOLOMITE; dark gray; pitted; micritic; fresh to slightly weathered; very strong; hard; w/stylolites in very closely spaced zones; (Bass Islands Group). highly fractured @ 30.8-31.7'	Core box #1 starts @ 28.0'. Sonic core S-8 stored in core box #1.
HQ	1	5.0	4.6	3.1	92	62		32		550			Discrete sample SC3-A collected @ 28.2' for chemical analysis.
								33		549		20°, J, Cl, Pa, Pl, SR @ 32.7' 20°, J, Cl, Pa, Ir, SR @ 33.0-33.1'	Discrete sample SC3-B collected @ 28.3' for chemical analysis.
								34		548		DOLOMITE; argillaceous; grayish brown; fresh; very strong; hard; w/within shale partings; (Bass Islands Group). 0°, B, Cl, Fi, Pl, SR @ 33.6'	Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Partial core loss @ 30.8-31.7'.
								35		547			
			35.5					36		546		vuggy @ 36.1-36.2'	
								37		545		stylolites @ 36.5-39.4' 0°, B, UK, Fi, Pl, SR @ 36.6', 37.7' 90°, J, No, No, Pl, SR @ 36.6-36.7', 37.6-37.7' shale partings - 0°, B, Pl, SR @ 36.7', 36.9', 37.4', 37.5', 38.6', 39.4'	
HQ	2	5.0	5.0	4.0	100	80		38		544		80°, J, T, Pl @ 37.0-37.4' closely to very closely spaced stylolites @ 37.9-38.3'	
								39		543		90°, J, VC, WA @ 38.9-39.4'	
								40		542		90°, J, No, No, Pl, SR @ 39.5-39.8', 39.9-40.4' 90°, J, T, WA @ 39.6-40.4'	
								41		541		DOLOMITE; grayish brown, banded; micritic; fresh to slightly weathered; very strong; very hard; w/shale partings; (Bass Islands Group). closely spaced stylolites @ 40.5-40.9' highly fractured @ 40.5-40.6'	
			40.5					42		540		80°, J, UK, Fi, Ir, SR @ 40.9-42.3' 0°, B, No, No, Pl, SR @ 40.9' 60°, J, No, No, Pl, SR @ 41.5-41.8' 90°, J, No, No, Pl, SR @ 41.6-42.0'	
HQ	3	5.0	4.9	1.6	98	32		43		539		70°, J, No, No, Pl, SR @ 43.1-43.9'	
								44		538		0°, J, UK, Fi, Pl, SR @ 43.6', 43.7', 44.2'	
								45		537		lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 43.9'	Core box #2 starts @ 43.9'.

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>TS for</i> Grainger/Mass	CHECKED BY <i>TS for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			45.5				45					0°, J, No, No, PI, SR @ 45.3'	
							46					40°, J, No, No, PI, SR @ 45.3-45.5'	
							47					lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 45.7'	
HQ	4	5.0	5.0	1.4	100	28	48					0°, J, Cl, Fi, PI, SR @ 46.0'	
							49					pitted @ 46.2-46.7'	
							50					DOLOMITE; light gray, banded; micritic; fresh; very strong; hard; widely spaced stylolites; (bands bedding parallel); (Bass Islands Group).	
							51					0°, J, Cl, Fi, PI, SR @ 46.6'	
							52					bands @ 20° @ 46.8-48.7'	
							53					75°, J, No, No, PI, SR @ 47.8-48.2'	
							54					DOLOMITE; olive gray; pitted; micritic; slightly weathered; strong; hard; w/trace fossils (mollusks) & widely spaced stylolites; (Bass Islands Group). shale band; black; platy; very fine grained; fresh; strong; hard; weathered contact w/surrounding dolomite @ 49.0-49.2'	
HQ	5	5.0	5.0	4.7	100	94	53					85°, J, N to MW, No, No, PI, SR @ 49.2-50.0'	
							54					0°, J, Cl, Fi, PI, SR @ 49.7'	
							55					20°, J, MW, WA @ 51.0-51.2'	
							56					0°, J, UK, Pa, Ir, Slk (vertically oriented slickensides) @ 51.0-51.2'	
							57					0°, B, UK, Fi, PI, SR @ 51.0', 52.5', 52.6'	
							58					shale partings - 0°, B, PI, SR @ 51.2', 51.7'	
							59					DOLOMITE; light brownish gray; pitted; micritic to fine grained; fresh to slightly weathered; strong; medium bedded; healed fractures weathered out to form pits; fine grained sections possibly oolitic; (Bass Islands Group).	
							60					argillaceous limestone @ 53.8-54.5'	
HQ	6	5.0	4.6	3.9	92	78	58					argillaceous limestone @ 57.8-58.0'	
							59					0°, B/J, anhydrite, Pa, PI, R @ 58.5'; joint has anhydrite crystals 0.4-1.2" diameter	
							60					argillaceous limestone; very fine grained (crystalline); fresh; strong; very hard; strong reaction w/HCl on fresh surface @ 58.5-58.8'	

Water level @ 15.0' prior to drilling on 08/23/07.

Drill chatter @ 59.5'.

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BORING LOG

BORING NO. EB/TSC-E3

SHEET 5 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>TS for TB for</i> Grainger/Mass	CHECKED BY <i>TS for TB for</i> Dogbey/Mass	APPROVED BY <i>TS</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	7	5.0	5.0	1.8	100	36	60				90° J, MW, anhydrite, Fi, PI @ 58.8-59.2' 80° J, N, anhydrite, Fi, PI @ 59.0-59.5' grayish brown, banded; w/shale partings @ 59.8-60.1'	Core box #3 starts @ 59.6'
							61		521		DOLOMITE; gray; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group). dolomite & dolomitic shale band; gray & dark gray, mottled; very fine grained; fresh strong; very hard @ 61.4-61.5'	
							62		520		10° B, UK, Fi, PI, R @ 61.4' lean clay band - about 100% medium plasticity, medium toughness, slow dilatancy fines; white; soft; moist; hydrocarbon odor; strong reaction w/HCl; homogeneous @ 61.5-61.6'	
							63		519		DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; strong; very hard; oolites approximately 0.02-0.04"; (Bass Islands Group).	
							64		518		90° J, VN, WA @ 61.6-63.5' 70° J, Ca, Fi, PI, SR @ 63.3-63.5' 90° J, No, No, PI, SR @ 63.3-64.4'	
HQ	8	5.0	5.0	3.0	100	60	65.5		516		DOLOMITE; brecciated (healed); argillaceous; light gray & gray, banded; micritic; fresh; very strong; hard; w/black; micritic; fresh; strong; hard; shale partings; (Bass Islands Group).	
							66		515		dolomitic shale; light gray & dark gray, mottled; very fine grained; fresh; strong; very hard @ 65.5-65.8'	
							67		514		claystone band; very dark gray; fresh; strong; hard; laminated @ 65.8-65.9'	
							68		513		10° J, T, Ca, Fi, PI @ 65.9' shale parting - 0° B, Ir, R @ 67.3'	
							69		512		claystone parting; very dark gray; fresh; strong; hard; laminated @ 67.8'	
							70		511		DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; banded w/black; fresh; very strong; hard; shale partings & bands; (Bass Islands Group). bands @ 40° @ 68.0-68.5'	
							71		510		bands @ 0° @ 68.5-70.0' lean clay parting - about 100% medium plasticity, medium toughness, no dilatancy fines; gray; moist; hydrocarbon odor; strong reaction w/HCl; homogeneous @ 68.7-68.8'	
							72		509		50° J, Ca, Fi, PI, SR @ 69.0-69.3' shale partings - 0° B, PI, SR @ 69.2', 69.6', 69.9'	
HQ	9	5.0	5.0	3.3	100	66	70.5		508		gray; banding less pronounced; fewer shale partings @ 70.0-73.5'	Core box #4 starts @ 72.5'
							73		507		70° J, Ca, Cl, Pa, PI, SR @ 70.2-70.5' 150° J, Cl, Pa, PI, SR @ 70.3-70.4'	
							74		506		fat clay - about 100% high plasticity, medium toughness, slow dilatancy fines; white; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 71.3-71.6'	
							75		505		10° J, No, No, PI, SR @ 71.9', 72.0', 72.5' pitted @ 72.8-73.5'	
											DOLOMITE; oolitic; light brownish gray; pitted; very	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>Pro for TB for Grainger/Mass</i>	CHECKED BY <i>SM for TB for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING														
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
HQ	10	5.0	5.0	2.3	100	46	75					fine to fine grained; fresh; very strong; hard w/closely to moderately wide spaced stylolites; (Bass Islands Group). 30°, J, No, No, PI, SR @ 73.5-73.7' 0°, J, No, No, PI, SR @ 73.5' micritic to very fine grained @ 75.5-82.9'		
							76			506				
							77			505			50°, J, Ca, Pa, PI, SR @ 76.9-77.2'	
							78			504			80°, J, No, No, PI, SR @ 77.5-77.9'	
							79			503			0°, B, J, CI, FI, IR, R @ 78.7-78.8' 60°, J, No, No, PI, SR @ 79.0-79.5'	
							80			502			0°, B, No, No, PI, SR @ 79.8', 80.7' 80°, J, No, No, PI, SR @ 80.0-80.9'	
							81			501			highly fractured @ 80.9-81.0' 80°, J, No, No, PI, SR @ 81.0-82.9'	
							82			500				
HQ	11	5.0	5.0	1.6	100	32	83			499			grades brecciated (healed) @ 82.6-82.9' 20°, J, CI, Pa, PI, SR @ 82.7'	
							84			498			<u>DOLOMITE</u> ; light gray; micritic; fresh; very strong; hard; w/moderately wide spaced stylolites; (Bass Islands Group).	
							85			497			shale partings & bands - 0°, B, PI, SR @ 84.0-88.4' 90°, J, No, No, PI, SR @ 84.8-85.2'	Drill chatter @ 85.0-85.5'
							86			496			0°, B, No, No, PI, SR @ 86.3'	Core box #5 starts @ 86.0'
							87			495				
HQ	12	5.0	5.0	2.0	100	40	88			494			brecciated (healed); gray; very fine grained @ 88.0-88.5' 80°, J, CI, Pa, PI, SR @ 88.2-88.3' 60°, J, CI, Pa, PI, SR @ 88.4-88.5'	
							89			493			dolomite & dolomitic shale; greenish gray & gray, mottled; fresh; very strong; hard @ 88.5-88.9' 60°, J, UK, Pa, PI, SIK @ 88.5-88.8'	
							90			492				

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BORING LOG

BORING NO. EB/TSC-E3

SHEET 7 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

LOGGED BY <i>TD for Grainger/Mass</i>		CHECKED BY <i>TD for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			90.5				90		491		SHALE; dark gray; very fine grained; fissile; fresh; strong; moderately hard; (Bass Islands Group). 0° B, No, No, PI, SR @ 89.2' highly fractured @ 89.5-89.7'		
							91		490		DOLOMITE; argillaceous; dark grayish brown; micritic; slightly weathered; strong; hard; grades downward from shale; (Bass Islands Group). 80° J, anhydrite, Pa, PI, SR @ 90.0-90.3' 160° J, anhydrite, Pa, PI, SR @ 90.0'	Core loss in fractured zones.	
HQ	13	5.0	4.8	2.3	96	46	93		489		DOLOMITE; grayish brown; very fine grained (crystalline); fresh; very strong; hard; trace shale partings; (Bass Islands Group). highly fractured w/clay @ 90.5-90.9', 94.0-94.2' 90° J, No, PI, SR @ 91.0-91.4' highly fractured @ 92.0-92.6' 60° J, Cl, Fi, PI, SR @ 92.5-92.9' brecciated (healed) @ 92.8-92.9', 93.2-93.3', 93.5-93.6' 0° B, Cl, Fi, PI, SR @ 93.0'		
			95.5				96		486		DOLOMITE; argillaceous; light brownish gray; very fine grained (crystalline); fresh; strong; hard; (Bass Islands Group).	Core loss @ 95.5-96.0'.	
							97		485		0° B, No, No, PI, SR @ 97.2' 60° J, Cl, Pa, PI, SR @ 97.6-97.8'		
HQ	14	5.0	4.5	2.2	90	44	98		484		highly fractured @ 98.4-98.5'		
							99		483		DOLOMITE; gray & light brownish gray, banded; micritic; fresh; very strong; hard; w/shale partings; dark gray bands parallel to bedding; (Bass Islands Group). convoluted bands (not parallel) @ 98.7-99.8' highly fractured @ 99.5-99.7' shale partings - 0° B, PI, SR @ 100.0', 100.7', 101.1'		
			100.5				101		481		highly fractured w/clay @ 101.3-101.4'	Core loss in fractured zones.	
							102		480		highly fractured w/clay @ 102.2-102.3', 102.5-102.7', 103.2-103.3'		
HQ	15	5.0	4.5	0.7	90	14	103		479		90° J, Cl, Pa, PI, S @ 102.3-102.5'		
							104		478		shale partings - 0° B, PI, SR @ 103.2', 103.3' 0.05' thick shale parting @ 103.2'		
							105		477		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0° B, PI, SR @ 103.6'(2), 104.1', 104.2', 104.3', 104.4'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. EB/TSC-E3

SHEET 8 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

LOGGED BY <i>CS for TB for</i> Grainger/Mass		CHECKED BY <i>CS for TB for</i> Dogbey/Mass	APPROVED BY <i>CS</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								105				90° J, Ca, Pa, PI, SR @ 103.3-103.5', 103.6-104.1', 104.4-104.9'	Core box #6 starts @ 105.5'
								106	476			highly fractured w/clay @ 104.3-104.4'	
								107	475			DOLOMITE; gray; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very widely spaced stylolites; (Bass Islands Group). 30° J, Ca, Fi, PI, SR @ 106.3-106.4' 0° B, Ca, Fi, PI, SR @ 106.8', 107.0'	
HQ	16	5.0	5.0	2.2	100	44		108	474			highly fractured @ 107.3-107.4'	
								109	473			0° B, Ca, Fi, PI, SR @ 108.0', 108.1', 108.7'	Core box #7 starts @ 115.2'
								110	472			90° J, No, No, PI, SR @ 108.8-109.0' 10° B/J, Ca, UK, Fi, PI, SR @ 109.0' 0° B, Ca, CI, Fi, PI, SR @ 109.4', 109.7'	
								111	471			90° J, Ca, Pa, PI, SR @ 109.4-110.1', 110.0-110.4' 80° J, Ca, Pa, PI, SR @ 109.7-109.9' 50° J, Ca, Fi, PI, SR @ 110.0-110.2'	
								112	470			DOLOMITE; light gray; very fine to fine grained (crystalline); fresh; very strong; very hard; (Bass Islands Group). 20° J, Ca, Fi, PI, SR @ 111.1-111.2'	
HQ	17	5.0	5.0	2.7	100	54		113	469			highly fractured w/clay @ 111.3-111.4' 0° J, No, No, Ir, SR @ 111.8' 70° J, No, No, PI, SR @ 111.8-112.2'	
								114	468			lean clay band - about 100% medium plasticity, medium toughness, no dilatancy fines; firm; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 113.1-113.2'	
								115	467			DOLOMITE; light gray; micritic; fresh; very strong; hard; (Bass Islands Group). 70° J, No, No, PI, SR @ 113.9-114.2'	
								116	466			DOLOMITE; argillaceous; brecciated (healed); grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; brecciated zones filled w/very dark gray; fresh; strong; hard; shale & w/pyrite; (Bass Islands Group).	
								117	465			highly fractured w/clay @ 114.8-114.9' 90° J, No, No, WA, SR @ 114.9-115.2'	
HQ	18	5.0	5.0	4.0	100	80		118	464			DOLOMITE; light brownish gray; pitted; micritic; slightly weathered; strong; hard; (Bass Islands Group). 30° J, No, No, PI, S @ 117.5-117.8' 70° J, Ca, Pa, PI, SR @ 118.2-118.7'	
								119	463			shale parting - 0° B, PI, SR @ 118.3' 130° J, Ca, Fi, PI, SR @ 118.7-118.8'	
								120	462			DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; very strong; hard; (Bass Islands	

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# BORING LOG

BORING NO. EB/TSC-E3

SHEET 9 OF 9

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6567.3'	GROUND ELEVATION (DATUM) E 4819.5'	TOTAL DEPTH 130.5 (feet)
SURFACE CONDITIONS Paved street		COORDINATE SYSTEM Plant	DATE START 08/21/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>TS for TB for Grainger/Mass</i>	CHECKED BY <i>TS for TB for Dobbey/Mass</i>	APPROVED BY <i>TS for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							120					Group).	
			120.5				121					0°,B,Cl,Fi,PI,SR @ 121.1',121.2'	
							122					20°,J,anhydrite,Fi,PI,SR @ 121.6'	
							123					highly fractured @ 122.4-122.6'	
HQ	19	5.0	3.5	0.4	70	8	123					DOLOMITE; argillaceous; & SHALE; dolomitic; olive brown, dark gray & black, banded; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). highly fractured @ 123.0-124.1'	
			125.5				124						Core loss @ 124.1-125.5'.
							125						
							126						Core loss throughout 125.5-128.7'.
							127						
HQ	20	5.0	1.8	0.0	36	0	128						
							129						
							130						
							131						
							132						
							133						
							134						
							135						
													claystone; dark gray; highly weathered; weak; low hardness; properties comparable to high plasticity, low toughness, no dilatancy fines soil; moist @ 128.7-129.1'
													highly fractured @ 129.1-129.5'
													shale partings - 0°,B,Ca,Pa,PI,SR @ 129.5', 129.9', 130.0' (2), 130.2'
													80°,J,Cl,Pa,PI,SR @ 130.3-130.4'
													Bottom of boring @ 130.5'; Water level @ 16.7' @ completion of drilling. Backfilled w/ bentonite chips to 2' & backfilled w/gravel to surface on 09/12/07.

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# BORING LOG

BORING NO. FO-E1  
SHEET 1 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Grainger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		581		<p><u>COBBLES</u> - About 60% angular, cubical to elongated, hard cobbles, w/max. size 8"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p>
							1		580				
							2		579				
							3		578				
							4		577				
			5.0				5		576				
							6		575				
							7		574				
							8		573				
							9		572				
							10		571				
							11		570				
							12		569				
							13		568				
							14		567				
							15		567				
S	1					3.0					<p>Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>Discrete sample SC1 collected @ 8.9-9.2'.</p>		
S	2					3.5					<p>Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray &amp; yellowish brown, mottled; soft; moist; swampy odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).</p>	<p>Discrete sample SC2 collected @ 14.0-14.2'.</p>	

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# BORING LOG

BORING NO. FO-E1

SHEET 2 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>GO for TB for</i> Grainger/Mass	CHECKED BY <i>im for TB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
TW	3		15.5						Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. PP = 3.5 TSF @ 17.5'.				
SPT	4	3	4	9	13	1.5		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to coarse, rounded to subangular, hard sand; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP = 3.3 TSF @ 21.7'.				
TW	5					1.4							
SPT	6	50/5"	-	-	50+	0.4		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, angular, micritic, dolomite hard gravel; about 10% fine to coarse, angular, hard sand; gray; hard; moist; strong reaction w/HCl; homogeneous; trace cobbles; (Glacial Till).	Drill chatter @ 23.0'.				
S	7		28.5			1.5		DOLOMITE; massive; crystalline; gray; micritic; slightly weathered; very strong; hard; highly fractured; (Bass Islands Group).	Tricone refusal @ 28.5'. Below 28.5' continued w/4" ID sonic continuous				

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BORING LOG

BORING NO. FO-E1

SHEET 3 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

LOGGED BY <i>TD for Grainger/Mass</i>		CHECKED BY <i>TD for Dogbey/Mass</i>		APPROVED BY <i>TD for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	1	5.0	4.5	0.0	90	0	30.0		551		DOLOMITE; argillaceous; dark gray; micritic; fresh to slightly weathered; very strong; very hard; highly fractured; (Bass Islands Group). highly fractured @ 30.5-30.9', 32.9-33.1', 33.5-33.8' 0°,B,No,No,PI,SR to R @ 31.2', 31.3', 31.4', 31.7', 32.1', 32.2', 32.5', 32.7', 32.9', 33.1', 33.3', 34.1', 34.5' 90°,J,Ca,Pa,PI,SR @ 31.3-32.5'	sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core S7 stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.0'. Below 30.0' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid. Water level @ 13.2' prior to start of drilling on 08/25/07. Core box #1 starts @ 30.0'. Core loss @ 30.0-30.5'. Drill chatter @ 35.5'. Drill chatter @ 36.0'. Drill chatter @ 37.5'.	
HQ	2	5.0	5.0	3.6	100	72	35.0		546		0°,B,UK,Fi,PI,SR to R @ 35.6', 35.8', 35.9', 36.0' very closely spaced stylolites @ 35.6-37.3'		
									545		grades light brownish gray; w/shale partings @ 36.5' 0°,B,CI,Pa,PI,SR @ 36.6'		
									544		15°,J,CI,Pa,PI,SR @ 37.8'		
									543		DOLOMITE; argillaceous; olive gray; micritic; fresh to slightly weathered; strong; hard; w/stylolites; (Bass Islands Group). banded @ 38.3-39.3' 90°,J,T,PI @ 38.5-40.5', 39.0-40.5' 0°,B,UK,Fi,PI,SR to R @ 39.0', 39.6' 80°,J,CI,Fi,PI,SR @ 39.8' 0°,J,Ca,Pa,PI,SR @ 40.2' highly fractured @ 40.5-41.2'		
									542		grades light brownish gray & gray, banded @ 41.3'		
									541		shale parting - 0°,B,PI,SR @ 42.0'		
HQ	3	5.0	4.8	2.0	96	40	40.0		540		DOLOMITE; grayish brown, gray, & very dark gray, mottled; pitted; micritic; slightly to moderately weathered; strong; very hard; pits closely spaced, 0.004-0.04", some partially filled w/calcite; (Bass Islands Group). 30°,J,No,No,PI,R @ 43.0-43.1', 43.3-43.4' highly fractured @ 44.0-44.1'	Core loss in highly fractured zone @ 44.0-	
									539		DOLOMITE; grayish brown; pitted; micritic to very fine		
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# BORING LOG

BORING NO. FO-E1

SHEET 4 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

LOGGED BY <i>TS for Grainder/Mass</i>		CHECKED BY <i>TS for Dogbey/Mass</i>		APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	4	5.0	5.0	3.9	100	78	45.0		536		grained; fresh; strong; hard; w/trace fossils (mollusks) & stylolites; pits (0.004-0.008"); trace shale partings; (Bass Islands Group). shale partings - 0°,B,PI,SR @ 44.4', 46.3'	44.1'. Core box #2 starts @ 45.0'	
									535		0°,B,No,No,PI,SR @ 46.5', 47.0'		
									534				
									533		shale partings - 0°,B,WA,SR @ 47.9', 49.1'		
									532		highly fractured @ 49.1-49.3'		
									531		DOLOMITE; argillaceous; grayish brown & gray, banded; very fine grained; fresh; very strong; hard; (Bass Islands Group). 0°,B,No,No,PI,SR @ 49.7'	Drill chatter @ 49.5'	
HQ	5	5.0	5.0	1.3	100	26	50.0		530		highly fractured @ 50.5-50.7' 0°,J,No,No,PI,SR @ 50.5',50.7' 70°,J,N,No,No,PI,SR @ 50.9-51.2', 51.0-51.2'		
									529		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group). 0°,J,No,No,PI,SR @ 51.4',51.6',53.2'		
									528		90°,J,N,PI @ 51.5-52.1' highly fractured @ 52.1-52.4' anhydrite; white; micritic; fresh; strong; hard; possible joint fill; ~0.4" crystals @ 52.4-52.7'		
									527		shale parting @ 52.7' 120°,J,Ca,Pa,PI,SR @ 53.5-53.8' 60°,J,Ca,Pa,PI,SR @ 53.6-53.7'		
									526		shale partings & stylolites @ 55.0-55.3'		
									525		DOLOMITE; argillaceous; olive gray; micritic; fresh; very strong; very hard; (Bass Islands Group). 10°,B,No,No,PI,R @ 55.7-55.8'	55.6'	
HQ	6	5.0	4.8	3.3	96	66	55.0		524		30°,J,No,No,Ir,R @ 56.2' 85°,J,T,PI @ 56.6-56.8' 75°,J,Ca,Fi,PI,Slk @ 56.6-56.8'		
									523		dolomite & dolomitic shale; light gray & light brownish gray, mottled; micritic; fresh; strong; hard; @ 56.8-56.9'		
									522		DOLOMITE; oolitic; light brownish gray; medium to coarse grained (crystalline); fresh; strong; hard; oolites about 0.02-0.04"; (Bass Islands Group). fine grained @ 57.9-58.1'	56.9'	
									521		elongated vugs, 0.04-0.08" @ 59.1-59.5'		
									520		DOLOMITE; white & light gray, banded; micritic; fresh;	59.6'	

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# BORING LOG

BORING NO. FO-E1

SHEET 5 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>		APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	7	5.0	5.0	2.9	100	58	60.0		521		very strong; hard; w/very dark gray; very fine grained; fresh; strong; hard; shale partings; wavy, subhorizontal bands; (Bass Islands Group). highly fractured @ 60.0-60.4'	Core box #3 starts @ 60.0'	
									61		10°, J, No, No, PI, R @ 61.1'		
									62		20°, J, CI, FI, PI, R @ 61.7'		
									62.5		10°, J, CI, FI, PI, SR @ 62.2', 62.5'		
									63		DOLOMITE; grayish brown, light brownish gray & gray, banded; laminated; micritic; fresh; strong; hard; (Bass Islands Group).		
									64		60°, J, CI, Pa, PI, R @ 63.9-64.3' (2)	No drilling fluid return @ 64.0'	
									65		highly fractured w/clay @ 64.5-64.6'	Core loss @ 65.0-65.4'	
HQ	8	5.0	4.6	2.0	92	40	65.0		65		0°, J, UK, Pa, St, R @ 65.6'		
									66		20°, J, Ca/CI, Pa, PI, SR @ 65.9', 66.0'		
									67		0°, J, No, No, PI, SR @ 66.1'		
									68		20°, J, CI, FI, PI, SR @ 66.3'		
									69		gray; pitted; less banding @ 66.8-67.6'		
									70		90°, J, CI, Pa, PI, SR @ 67.5-68.0'		
									71		90°, J, T, PI @ 67.6-68.0'		
									72		highly fractured @ 68.6-68.7'		
									73		DOLOMITE; light brownish gray; pitted; micritic; fresh to slightly weathered; strong; hard; w/closely to very closely spaced stylolites; pits 0.02"; (Bass Islands Group).		
									74		40°, J, CI, Pa, PI, St, SR @ 68.9-69.0'		
									75		80°, J, No, No, PI, SR @ 70.2-70.5'		
HQ	9	5.0	5.0	2.1	100	42	70.0		509		highly fractured @ 72.2-72.3', 73.3-73.5'		
									510		grades light olive gray & light yellowish brown, banded @ about 72.3'		
									508		65°, J, No, No, PI, SR @ 72.6-73.0'		
									507		90°, J, No, No, PI, R @ 73.0-73.3'		
									507		fat clay - about 100% high plasticity, medium		



# BLACK & VEATCH

# BORING LOG

BORING NO. FO-E1

SHEET 6 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

LOGGED BY <i>EM for Grainger/Mass</i>		CHECKED BY <i>EM for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	10	5.0	4.7	3.1	94	62	75		506		toughness, no dilatancy fines; gray; soft; moist; no reaction w/HCl; homogeneous @ 74.7-74.8'	Core box #4 starts @ 75.0'	
							76		505		DOLOMITE; brecciated (healed); grayish brown; micritic; fresh; very strong; hard; w/stylolites; mottled w/ shale in matrix; (Bass Islands Group).		
							77		504				
							78		503		DOLOMITE; light gray; pitted; micritic; slightly weathered; strong; hard; (Bass Islands Group). highly fractured @ 77.5-78.5'	Core loss in highly fractured zone @ 77.5-78.5'	
							79		502		DOLOMITE; gray to light brownish gray; banded; micritic; fresh; very strong; hard; (Bass Islands Group).		
							80		501		0°, J, UK, Fi, PI, SR @ 79.8'		
							81		500		80°, J, No, No, PI, SR @ 79.8-79.9'		
							82		499		very closely spaced stylolites @ 80.5-80.6'		
HQ	11	5.0	5.0	2.2	100	44	83		498		highly fractured @ 81.2-81.3'		
							84		497		light gray & gray, mottled @ about 81.3-81.7'		
							85		496		80°, J, No, No, PI, S @ 82.1'		
							86		495		0°, B, Ca, Fi, PI, SR @ 83.3'		
							87		494		SHALE; very dark gray; laminated; very fine grained; fresh; strong; hard; (Bass Islands Group). moderately weathered; weak; low hardness @ 83.8-84.0'		
							88		493		150°, J, CI, Fi, PI, SR @ 84.3-84.4'		
							89		492		20°, J, CI, Fi, PI, SR @ 84.4'		
							90		491		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Bass Islands Group).		
									490		90°, J, CI, Pa, PI, SR @ 84.8-86.0', 85.0-86.0'		
HQ	12	5.0	5.0	3.2	100	64			489		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group).		
									488		0°, J, UK, Pa, PI, SR @ 85.3', 85.7'		
									487		vuggy; slightly weathered @ 86.8-87.5'		
									486		shale partings - 0°, B, PI, SR @ 86.9', 87.0'		
									485		50°, J, No, No, PI, SR @ 87.3-87.4'		
									484		very closely spaced stylolites @ 88.0-88.1'		
									483				
									482		30°, J, No, No, PI, SR @ 89.1-89.2'		
									481				
									480				



# BLACK & VEATCH

# BORING LOG

BORING NO. FO-E1  
SHEET 7 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>E. B. for TB for Grainger/Mass</i>	CHECKED BY <i>E. B. for TB for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	13	5.0	5.0	3.1	100	62	90		491		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/trace stylolites; (Bass Islands Group). shale parting - 0° B, PI, SR @ 90.7' 0° B, CI, FI, PI, SR @ 90.9' 0° B, No, No, PI, SR @ 91.5', 93.4'	Core box #5 starts @ 90.0'
							91		490			
							92		489			
							93		488			
							94		487		mottled w/dolomitic shale @ 93.3-93.5' shale parting - 10° B, PI, SR @ 93.7' grades/recrystallized; fractured argillaceous dolomite healed/recrystallized w/quartz (hardness > knife blade) @ 93.7'	
							95		486			
HQ	14	5.0	4.6	1.6	92	32	95		486		DOLOMITE; olive gray, light gray & dark gray, banded; micritic; fresh; very strong; hard; (Bass Islands Group). 90° J, VN, Ca, FI, PI @ 94.0-95.1' 60° J, T, Ca, FI, PI @ 94.9-95.0' shale partings - 0° B, PI, SR @ 95.0', 95.1', 95.2', 95.4', 95.6', 95.7', 95.9', 96.0', 96.1', 97.3', 97.5' gray, mottled @ 96.2-97.2'	
							96		485			
							97		484		highly fractured @ 97.3-97.5' 50° J, No, No, PI, SR @ 97.5-97.7'	
							98		483			
							99		482		DOLOMITE; gray; micritic; fresh; strong; hard; thick bedded; w/trace stylolites; (Bass Islands Group). shale partings - 0° B, PI, SR @ 97.9', 98.9' highly fractured @ 97.9-98.0' 40° J, CI, Pa, PI, SR @ 99.2-99.3'	
							100		481		90° J, No, No, PI, SR @ 99.8-100.0' (2) 0° B, UK, FI, PI, SR @ 100.0', 101.1'	
							101		480			
							102		479		0° B, UK, FI, PI, SR @ 101.6', 101.7', 102.1'	
HQ	15	5.0	5.0	2.9	100	58	102		479		50° J, CI, Pa, PI, SIK @ 102.1-102.2' 50° J, CI, Pa, PI, S @ 102.2-102.3' 90° J, No, No, PI, SR @ 102.3-102.8' 0° B, UK, FI, PI, SR @ 102.4', 102.8', 103.2', 103.3' highly fractured @ 103.1-103.3'	
							103		478			
							104		477		0° B, UK, FI, PI, SR @ 103.7', 103.9', 104.4'	
							105		477			
												Core box #6 starts @ 104.4'



# BLACK & VEATCH

# BORING LOG

BORING NO. FO-E1  
SHEET 8 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0' 581.2 ft (NAVD 88)	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS													
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			
HQ	16	5.0	4.9	3.7	98	74	105	476	110° J, No, No, PI, S @ 105.1-105.3' 80° J, No, No, PI, S @ 105.3-105.5'													
							106	475	mottled w/shale @ 106.7-107.1'													
							107	474	0° J, Ca, Fi, PI, SR @ 107.1', 107.5'													
							108	473	highly fractured @ 107.7-107.8'													
							108.6	472	70° J, No, No, WA, S @ 108.1-108.5'													
							109	472	DOLOMITE; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very closely spaced stylolites; (Bass Islands Group).													
							110	471	0° J, Cl, Pa, PI, SR @ 108.6'													
HQ	17	5.0	5.0	3.9	100	78	110	471														
							111	470														
							112	469														
							113	468														
							113.2	467	DOLOMITE; light brownish gray; micritic; slightly weathered; strong; hard; (Bass Islands Group).													
							114	467	highly fractured @ 113.2-113.3'													
							114	467	0° B, Ca/Cl, Fi, PI, SR @ 113.3'													
							114	467	0° J, Ca, Pa, PI, SR @ 113.6', 113.9'													
							114	467	90° J, T, Ca, Fi, PI @ 113.7-114.0' (3)													
							114	467	30° J, Ca, Pa, PI, SR @ 113.9-114.0', 114.1-114.2'													
							115	466	DOLOMITE & argillaceous DOLOMITE; grayish brown & gray, mottled; pitted; micritic to very fine grained; fresh to slightly weathered; very strong; hard; (Bass Islands Group).													
							115.4	465	highly fractured @ 115.4-115.6', 116.2-116.4'													
							116	465														
							117	464	DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; (Bass Islands Group).													
HQ	18	5.0	4.0	0.9	80	18	117	464	claystone; dolomitic; greenish gray; very fine grained; highly weathered; weak; low hardness; hydrocarbon odor; bed; properties comparable to low plasticity, low toughness, no dilatancy fines @ 116.5-116.8'													
							118	463	30° J, Cl, Pa, PI, SR @ 116.7-116.8'													
							118	463	90° J, Cl, Pa, PI, SR @ 116.8-117.0'													
							118	463	0° J, Cl, Fi, PI, SR @ 117.2', 117.4'													
							118	463	0° J, Cl/Ca, Fi, PI, SR @ 117.3'													
							119	462														
							119.9	462	DOLOMITE & SHALE; dolomitic; light olive brown, dark													

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**BORING LOG**

BORING NO. FO-E1  
SHEET 9 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

LOGGED BY <i>RB for TBG</i> Grainger/Mass		CHECKED BY <i>RB for TBG</i> Dogbey/Mass	APPROVED BY <i>SM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						

CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						

			120.0				120		461		gray & dark grayish brown, banded; laminated; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 70°, J, Cl, Pa, Pl, SR @ 118.2-118.7' 90°, J, Cl, Pa, Pl, SR @ 118.6-118.8' highly fractured @ 118.8-119.0' claystone; dolomitic; gray; highly weathered; weak to very weak; low hardness to friable; slight hydrocarbon odor @ 121.2-121.6' shale parting - 0°, B, Pl, SR @ 122.7' 80°, J, No, No, Pl, SR @ 122.7-122.9' DOLOMITE; light gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 0°, B, No, No, Pl, SR @ 123.4' claystone; light brownish gray; highly weathered; weak; low hardness; contains fragments of dolomite @ 123.7-123.8' mottled w/anhydrite @ 123.8-124.0' LIMESTONE; argillaceous; greenish gray; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). DOLOMITE; light gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F) mottled w/anhydrite @ 126.3-126.7' DOLOMITE; argillaceous; gray; micritic; fresh; very strong; very hard; (Salina Group - Unit F). 90°, J, Cl, Pa, Pl, SR @ 129.1-129.4'	Core box #7 starts @ 120.0'. Core loss throughout @ 120.0-130.0'.  Water level @ 15.0' prior to drilling on 08/26/07.
HQ	19	5.0	3.0	0	60	0	121		460			
							122		459			
							123		458			
							124		457			
							125		456			
HQ	20	2.5	1.0	0	40	0	126		455			
							127		454			
							128		453			
HQ	21	2.5	1.3	0.3	52	12	129		452			
							130		451			
							131		450			
							132		449			
							133		448			
							134		447			
							135		447			



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# BORING LOG

BORING NO. FO-E1

SHEET 10 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6490.2'	GROUND ELEVATION (DATUM) E 4915.0'	TOTAL DEPTH 130.3 (feet)
SURFACE CONDITIONS Gravel street		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>EM for 786</i> Grainger/Mass	CHECKED BY <i>EM for 786</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						

							135		446			w/gravel to surface on 09/12/07.
							136		445			
							137		444			
							138		443			
							139		442			
							140		441			
							141		440			
							142		439			
							143		438			
							144		437			
							145		436			
							146		435			
							147		434			
							148		433			
							149		432			
							150					



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# BORING LOG

BORING NO. FWS/ACB-C1

SHEET 1 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 581.4 ft (NAVD 88) 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

LOGGED BY <i>EEB</i> Grainger/Bonnie TB		CHECKED BY <i>E. Dogbey</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		581		Undifferentiated Overburden. (see logs for FWS/ACB-C1a & TP 1)	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Drilled through TP-1 backfill.
								1		580			
								2		579			
								3		578			
								4		577			
								5		576			
								6		575			
								7		574			
								8		573			
								9		572			
			10.0					10		571		Well-graded GRAVEL with Fines and Sand (GW-GM) - About 75% gravel; about 15% sand; about 10% fines; (Fill).	From 10'-15' logged based on sample photo labeled S3 in photo record.
								11		570			
								12		569			
								13		568			
								14		567			
								15		567			

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 581.4 ft (NAVD 88) 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Em for Dogbey/Bonnie TB</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	2		15.0			5.0	15		566		Silty/Clayey GRAVEL with Sand (GM/GC) - About 45% gravel; about 40% sand; about 15% fines.	From 15'-16' logged based on sample photo labeled S4 in photo record, w/ silt/clay content based on natural gamma log. Discrete sample 4A collected from S2 @ 16.5'-17.0'.
							16		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; greenish gray; soft; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).	
							17		564			
							18		563		Lean CLAY with Sand (CL) - About 75% medium plasticity, high toughness, no dilatancy fines; 15% fine to coarse, subangular to angular sand; 10% fine to coarse, subangular gravel w/max. size 1"; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Discrete sample 4B collected from S2 @ 19.0'-19.5'.
							19		562			
							20		561			
							21		560		Poorly graded SAND (SP) - About 100% fine to medium sand; grayish brown; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Discrete sample 5A from S3 @ 20.6'-20.7'.
S	3		20.0			5.0	22		559		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness fines; 20% angular to subangular, fine to coarse gravel w/max. size 3"; about 5% subangular cobbles w/max. size of 5"; dark gray; firm; moist; strong reaction w/HCl; (Glacial Till).	Discrete sample 5B collected from S3 @ 23.3'-23.8'.
							23		558			
							24		557			
							25		556			
							26		555			
S	4		25.0			3.3	27		554			Discrete sample 6 collected from S4 @ 26.8-27.2'.
							28		553			
							29		552		DOLOMITE; grayish brown; crystalline; micritic; fresh; strong; hard; banded; (Bass Islands Group).	Sonic Core Box 1 starts @ 28.3'. Set nominal 6" temporary steel casing @ 30.5'.
S	5		28.3			2.0	30		552			

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BORING LOG

BORING NO. FWS/ACB-C1 SHEET 3 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Bo</i> Grainger/Bonnie TB	CHECKED BY <i>EM</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE NUMBER	SET INCHES						
PQ	1	30.5		551		0°,B,N,No,No,Ir @ 30.8', 31.4' 90°,J,T,No,No,Ir @ 30.8-31.4', 31.6', 33.5-33.8'	Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'.
				549		0°,B,N,Ir (solutioned) @ 31.8', 32.0', 34.5', 34.9'	
				548			
				547			
PQ	2	35.0		546		90°,J,T,No,No,Ir @ 35.0-35.6' (closely spaced 1") bedding contorted @ 35.6-37.6'	Core box #2 starts @ 40.0'.
				545		pitted & vuggy @ 36.2-36.6'	
				544		0°,B,N,No,No,Ir @ 36.9', 38.2', 38.6' 25-30°,B,N,UK,Sp,WA @ 37.3'	
				543		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group). 0°,B,N,UK,Sp,Ir @ 37.6' 85-90°,J,T,H @ 38.2-39.7'	
PQ	3	40.0		541		DOLOMITE; fossiliferous; dark grayish brown; micritic; fresh; very strong, hard; w/pits left from shell casts; (Bass Islands Group). 0°,B,N,UK,Sp,Ir @ 40.5', 41.8', 42.0'	
				540		0°,B (solutioned) @ 41.6'	
				539		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; highly fractured; partially healed w/ anhydrite filling; (Bass Islands Group).	
				538		70°,J,N,No,No,Ir @ 43.2-43.8' 70°,J,N (solutioned) @ 43.6-44.3'	
				537		highly fractured @ 44.4-44.8'	

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# BORING LOG

BORING NO. FWS/ACB-C1

SHEET 4 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

LOGGED BY <i>B. Grainger/Bonnie TB</i>		CHECKED BY <i>E. Dogbey/Bonnie TB</i>	APPROVED BY <i>E. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	4	5.0	5.0	2.9	100	58	45		536		DOLOMITE; argillaceous; light gray; micritic; slightly weathered; strong; hard; w/argillaceous partings and stylolites; (Bass Islands Group). 0°,B,N,Ir (solutioned) @ 45.5',46.1',46.3',46.5',46.7',47.7', 48.2'		
							46		535				
							47		534				
							48		533		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; w/vugs filled w/light brownish gray dolomite; fractured; healed; (Bass Islands Group).		
							49		532		85°-90°,J,MW,No,No,Ir,VR @ 49.4-49.9'	Core box #3 starts @ 49.5'.	
							50		531		DOLOMITE; light gray; micritic; fresh; very strong; hard; (Bass Islands Group). 10°,B,N,No,No,Ir,R @ 50.4', 50.7', 51.3', 51.3'		
							51		530				
PQ	5	5.0	5.0	3.0	100	60	52		529		SHALE; fissile; dark gray; fresh; moderately strong, hard; (Bass Islands Group). 90°,J,N,No,No,Ir,R @ 51.7-52.0'		
							53		528		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; gradational contact on bottom; (Bass Islands Group).		
							54		527		DOLOMITE; oolitic, light brownish gray; crystalline; very fine grained; fresh; strong; hard; massive; w/ some dark gray seams; (Bass Islands Group). 30°,J,N,No,No,Ir,R @ 52.9' 70°,J,N,No,No,Ir,R @ 53.6', 53.8'		
							55		526				
							56		525		DOLOMITE; oolitic; intermixed light gray & light brownish gray, micritic; fresh; strong; hard; grading to mottled; (Bass Islands Group). 30°,J,T,No,No,Ir,R @ 55.5' 10°,B,N,No,No,Ir @ 55.9', 56.1', 56.2', 56.6', 57.3', 57.6', 58.0', 58.4', 58.6', 58.9', 59.5'		
PQ	6	5.0	4.9	2.6	98	52	57		524		healed brecciated zone @ 56.2-56.4'		
							58		523		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; w/shaley bands & partings; stylolites; (Bass Islands Group). contorted bedding @ 56.4-58.0' shale band @ 58.0'	Core box #4 starts @ 58.3'.	
							59		522				
							60						



# BLACK & VEATCH

# BORING LOG

BORING NO. FWS/ACB-C1

SHEET 5 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3' 581.4 ft (NAVD 88)	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	7	5.0	5.0	3.2	100	64	60		521	0°,B,N,No,No,Ir,R @ 60.3', 61.6', 65.4'			
							61		520	fractured along bedding; weathered @ 60.7-60.8', 61.8-62.0', 63.8'			
							62		519	62.0 DOLOMITE; light gray; micritic; slightly weathered; strong; hard; banded; w/stylolites & argillaceous partings; (Bass Islands Group). 85°,J,N,No,No,Ir,VR @ 62.6-63.9'			
							63		518				
							64		517				
							65		516	80°,J,T,H,No,Ir,R @ 64.9-65.8', 68.1-68.7'			
							66		515	60°,J,T,H,Fi,Ir,R @ 65.4'			
PQ	8	5.0	5.0	5.0	100	100	67		514				
							68		513				Core box #5 starts @ 67.8'.
							69		512				
							70		511	60°,J,MW,Ci,Fi,Ir,R @ 70.3'			
							71		510	60°,J,N,No,No,Ir,R @ 70.8'			
							72		509	70.9 BRECCIA; healed; dolomite matrix; light gray; micritic, fresh; very strong; hard; w/clasts of dolomite; light brownish gray; (Bass Islands Group). fractured @ 71.5',71.7',72.0',72.3'			
PQ	9	5.0	5.0	3.0	100	60	73		508	fractured @ 72.7',73.2'			
							74		507				
							75		506	fractured @ 74.6'			

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
# BORING LOG

BORING NO. FWS/ACB-C1

SHEET 6 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

LOGGED BY <i>Granger/Bonnie TB</i>		CHECKED BY <i>F. Dogbey/Bonnie TB</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			75.0				75		506	 <p>DOLOMITE; argillaceous; light gray; micritic; slightly weathered; strong; hard; w/dark gray partings; (Bass Islands Group). 0-5°, B, UK, Pa, Ir, R @ 75.1', 75.2', 76.4'</p>	Core box #6 starts @ 76.4'.		
PQ	10	5.0	4.7	2.5	94	50	76	505					
							77	504	0°, B, N (solutioned) @ 77.6', 77.9', 78.1', 78.2'				
							78	503	80-85°, J, N, No, No, Ir, R @ 78.2-79.4' 0°, B, N, UK, Sp, Ir, R @ 78.5', 78.9', 79.0', 79.1'				
			80.0				80		502	 <p>SHALE; very dark gray; fissile; micritic; fresh; weak; low hardness; (Bass Islands Group).</p>			
							81	501	DOLOMITE; crystalline; gray; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 0-10°, B, N, UK, Sp, Ir, R @ 80.1', 80.6', 81.7',				
PQ	11	5.0	5.0	3.7	100	74	82		499	0-10°, B, N, UK, Sp, Ir, R @ 82.5'	Core box #7 starts @ 86.1'.		
							83		498	0-10°, B, N, UK, Sp, Ir, R @ 83.1', 83.3'			
							84		497	very soft, light gray parting @ 84.9'			
							85		496	0°, B, N, UK, Sp, Ir, R @ 85.4', 86.1', 87.1'			
PQ	12	5.0	5.0	3.7	100	74	86		495	70°, J, N, No, No, Ir, VR @ 86.0'			
							87		494	0°, B (solutioned) @ 86.9'			
							88		493	70°, J, N, No, No, Ir, VR @ 87.5'			
							89		492	shaley dolomite band, dark gray @ 89.5-89.8'			
							90		491	0°, B (solutioned) @ 89.6'			

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# BORING LOG

BORING NO. FWS/ACB-C1  
SHEET 7 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3'	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	13	5.0	5.0	4.1	100	82	90.0		491		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard w/dark gray partings & stylolites; (Bass Islands Group). 0°, B, N, UK, Sp, Ir, R @ 89.9' 0°, B, N, UK, Su, Ir, R @ 90.1'  90°, J, T, No, No, Pl, R @ 92.4-92.9' 0°, B, N, UK, Su, Ir, R @ 92.4', 92.6' 50°, J, N, No, No, Pl, R @ 92.7', 94.7'  0°, B, N, UK, Su, Ir, R @ 93.6'  0°, B, N, UK, Su, Ir, R @ 94.7'	89.8          94.9	
PQ	14	5.0	4.9	4.3	98	86	95.0		486		DOLOMITE; light gray; micritic; fresh; very strong; hard; w/occasional stylolites; (Bass Islands Group). 0°, B, N, UK, Su, Ir, R @ 95.7', 95.8', 96.3'  60°, J, N, No, No, Ir, R @ 96.6'  0°, B, N, UK, Su, Ir, R @ 97.5'  80°, J, T, Fi @ 98.5-99.7' 0°, B, N, UK, Su, Ir, R @ 98.6', 99.0'	Core box #8 starts @ 95.0'	
PQ	15	5.2	4.7	3.8	90	73	100.0		481		0°, B, N, No, No, Ir, R @ 101.1' 90°, J, T, H, Ir @ 101.1-101.7' 0°, B, N, No, No, Ir, R @ 101.6'  60°, J, N, No, No, Ir, R @ 102.2', 102.3'  0°, B, N, No, No, Ir, R @ 103.7', 103.9'  90°, J, Ca, Fi, Ir, R @ 104.4-105.0'		

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# BORING LOG

BORING NO. FWS/ACB-C1

SHEET 8 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6203.1'	GROUND ELEVATION (DATUM) E 4776.3' 581.4 ft (NAVD 88)	TOTAL DEPTH 105.2 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM	DATE START 08/25/07	DATE FINISHED 08/26/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Em for Dogbey/Bonnie TB</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
								105		476			Bottom of boring @ 105.2'. Water level @ 17.4' @ completion of drilling. Boring backfilled w/bentonite chips on 09/13/07.
								106		475			
								107		474			
								108		473			
								109		472			
								110		471			
								111		470			
								112		469			
								113		468			
								114		467			
								115		466			
								116		465			
								117		464			
								118		463			
								119		462			
								120					

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**BORING LOG**

BORING NO. FWS/ACB-C1a

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6200.6'	GROUND ELEVATION (DATUM) E 4782.7'	TOTAL DEPTH 9.9 (feet)
SURFACE CONDITIONS Asphalt Parking Lot		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/24/07

LOGGED BY <i>Geo for Grainger</i>		CHECKED BY <i>Em for Dobbey/Bonnie</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0		581		ASPHALT;	Boring advanced w/vacuum excavation.
								1		580		COBBLES with Gravel - About 60% angular, cubical to elongated, hard cobbles w/max size 12"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	
								2		579			
S	1		3.0					3		578		Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
								4		577		Encountered piece of PVC pipe between 5.0-7.0' (later determined to be from a sewer line).	
								5		576			
								6		575			
S	2		5.0					7		574			
								8		573			
								9		572			
								10		571		PEAT (PT) - About 100% black; fibrous organic material.	Bottom of boring @ 9.9'. Boring abandoned & relocated due to sewer line. Area excavated to repair sewer line.
								11		570			
								12		569			
								13		568			
								14		567			
								15					

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# BLACK & VEATCH

# BORING LOG

BORING NO. HM-E1

SHEET 1 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 5985.3'	GROUND ELEVATION (DATUM) E 4530.2'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Paved Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY <i>RC for TB for Grainger/Mass</i>	CHECKED BY <i>im for Grainger Dogbey/Grainger</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0		581		ASPHALT	
							1		580		COBBLES - About 60% angular, cubical to elongated, hard, cobbles w/max. size 12"; about 25% fine to coarse, angular, elongated to cubical, hard gravel w/ max. size 3"; about 15% fine to coarse, angular, hard, sand; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
			3.0				3		578			Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1 @ 4.0-4.2'.
S	1					1.5	4	X	577			
			5.0				5		576			
							6		575			
S	2					2.0	7	X	574			Discrete sample collected from S2 @ 7.0-7.3'.
							8		573			
							9		572			
			10.0				10		571			
							11		570			
							12		569			
S	3					3.5	13		568		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; gray (10YR 6/1) & yellowish brown, mottled; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
							14		567			
							15		566			

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# BORING LOG

BORING NO. HM-E1  
SHEET 2 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 5985.3'	GROUND ELEVATION (DATUM) E 4530.2'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Paved Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY <i>GC/Bo</i> Grainger/Mass	CHECKED BY <i>EM</i> Dogbey/Grainger	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								15		566			
TW	4		16.0				1.7	16		565		Lean CLAY (CL) - About 90% LL=36, PL=18, no dilatancy, high dry strength fines; about 10% sand; light olive brown; soft; moist; strong reaction w/HCl; homogeneous; (Lacustrine Deposit).	Set nominal 6" temporary steel casing to 15.5'. Hole open to 16.0. Below 16.0' continue w/NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 2.9 TSF @ 18.0'. TV = 0.57 TSF @ 18.0'.
SPT	5	3	4	8	12	1.5		17		564			
								18		563			
								19		562		Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; yellowish brown & light gray; firm; moist; strong reaction w/HCl; banded; (Glacial Till).	
								20		561			
								21		560			
TW	6						1.6	22		559			
								23		558		grades dark grayish brown; homogeneous @ 23.5'	PP = 4.5 TSF @ 23.5'. T = 0.65 TSF @ 23.5'.
								24		557			
SPT	7	21	23	24	47	1.1		25		556		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 40% fine to coarse, subangular to angular, hard sand; trace fine, subangular, hard gravel; dark gray; very hard; moist; strong reaction w/HCl, homogeneous; (Glacial Till).	
								26		555			
								27		554		Clayey SAND (SC) - About 80% fine to medium, sand; about 20% medium plasticity, low toughness, slow dilatancy, medium dry strength fines; dark grayish brown; very dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	Tricone refusal @ 27.6'. Below 27.6' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced
			27.6					28		553			
S	9						2.9	29		552		DOLOMITE; gray; crystalline; micritic; slightly weathered; strong; hard; (Bass Islands Group).	
								30		551			

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# BORING LOG

BORING NO. HM-E1

SHEET 3 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 5985.3'	GROUND ELEVATION (DATUM) E 4530.2'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Paved Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY <i>GC for TB for</i> Grainger/Mass	CHECKED BY <i>GC for TB for</i> Dobbey/Grainger	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			30.5					30		551			w/sampler. Sonic core stored in box labeled SC4. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'.
PQ	1	3.0	3.0	1.5	100	50		31		550		10°, B, N, No, No, Ir @ 30.8', 31.6', 31.7' 85°, J, N, No, No, Ir @ 31.2'	
			33.5					32		549		30°, J, N, No, No, Ir @ 32.2' 10°, B, N, No, No, Ir @ 32.5', 33.3'	
								33		548			
								34		547			
PQ	2	5.0	5.0	1.6	100	32		35		546		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Bass Islands Group). 0°, B, N, UK, Pa, Ir @ 34.1', 35.0', 35.1', 36.0' 85°, J, N, No, No, Ir @ 34.5-35.6', 36.2-36.5'	
								36		545		50°, J, N, No, No, Ir @ 35.8'	
								37		544		DOLOMITE; dark grayish brown; pitted; crystalline; micritic; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group). 0°, B, N, UK, Pa, Ir @ 36.6', 37.4', 37.8' 85°, J, N, No, No, Ir @ 37.4-38.4' 90°, J, T, No, No, Ir @ 38.0-41.7'	
								38		543			
								39		542		0°, B, N, No, No, Ir @ 38.9', 39.5'	
								40		541		90°, joints, intersecting at 90° @ 39.5-40.5'	Core box #2 starts @ 39.3'.
								41		540		0°, B, N, No, No, Ir @ 40.5'	
PQ	3	4.7	4.7	0.9	100	19		42		539		0°, B, N, No, No, Ir @ 42.1', 42.4', 42.7', 42.9' 90°, joints, intersecting at 90° @ 42.1-42.6' pitting stops @ 42.1'	
								43		538		bedding convoluted @ 43.0-49.0'	
								44		537		85°, parallel joints, T, H, Pa @ 43.5-44.5'	
								45		536		10°, B, T, UK, Sp, Ir @ 44.5', 45.1', 45.2' fractured @ 44.5-45.2'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. HM-E1

SHEET 4 OF 6

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI										COORDINATES N 5985.3'										GROUND ELEVATION (DATUM) E 4530.2'					TOTAL DEPTH 581.0 ft (NAVD 88) 75.5 (feet)				
SURFACE CONDITIONS Paved Parking Area															COORDINATE SYSTEM Plant					DATE START 08/23/07					DATE FINISHED 08/25/07				
SAMPLING										LOGGED BY <i>TR for Grainger/Mass</i>										CHECKED BY <i>Dogbey/Grainger</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																	
			45.5				45		536																				
PQ	5	5.0	4.7	1.1	94	22	46		535		70°, Intersecting joints, T, No, No, Ir @ 46.5', 48.0'																		
							47		534		0°, B, UK, Sp, Ir @ 47.2', 47.7'																		
							48		533			Core box #3 starts @ 47.7'																	
							49		532																				
							50		531		DOLOMITE; oolitic; light brownish gray; crystalline; micritic; fresh; very strong; hard; w/ thin parting of dark gray shale; (Bass Islands Group). 0°, B, UK, Sp, Ir @ 49.4'																		
							51		530		85°, J, T, No, No, Ir @ 49.4-52.0'																		
PQ	6	5.0	5.0	3.0	100	60	52		529																				
							53		528		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; banded; w/ shale partings & stylolites; (Bass Islands Group). brecciated, healed @ 53.0-53.7' convoluted bedding @ 53.7-55.1'																		
							54		527		shale; dark gray @ 54.7'																		
							55		526																				
							56		525																				
							57		524		10°, B, N (solutioned) @ 56.9', 57.3' 70°, J, T, Ir @ 56.9-57.2'	Core box #4 starts @ 56.5'																	
PQ	7	5.0	5.0	2.8	100	56	58		523		90°, J, N (solutioned) @ 58.0-58.5' 10°, B, N (solutioned) @ 58.0', 58.2', 58.5'																		
							59		522																				
							60		521		10°, B, N (solutioned) @ 59.4', 59.8', 60.2' 85°, J, N, No, No, Ir @ 59.4-60.2'																		

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# BLACK & VEATCH

# BORING LOG

BORING NO. HM-E1  
SHEET 5 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 5985.3'	GROUND ELEVATION (DATUM) E 4530.2'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Paved Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY <i>Boyer</i> Grainger/Mass	CHECKED BY <i>Boyer</i> Dogbey/Grainger	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
			60.5				60		521					
PQ	8	5.0	5.0	2.5	100	50	61		520			BRECCIA; dolomite matrix; light gray; micritic; healed; slightly weathered; hard; w/gray dolomite; micritic clasts; w/stylolites; (Bass Islands Group). 85°,J,N,No,No,Ir @ 60.5-61.8'		
							62		519			30°,J,N,No,No,Ir @ 61.8, 62.3' 0°,B (solutioned) @ 62.2, 63.7'		
							63		518			70°,J,N,No,No,Ir @ 62.7'		
							64		517			70°,J,N,No,No,Ir @ 64.0-64.3'		
			65.5				65		516			60°,J,N (solutioned),Cl,Pa,Ir @ 65.5'	Core box #5 starts @ 65.0'	
							66		515					
							67		514					
PQ	9	5.0	5.0	4.2	100	84	68		513					
							69		512					
							70		511			0°,B,N,H,Pa,Ir @ 69.5' 0°,B,N (solutioned) @ 70.0', 70.5'		
			70.5				71		510			DOLOMITE; light gray; micritic; slightly weathered; very strong; hard; banded; w/argillaceous partings & stylolites; (Bass Islands Group). 0°,B,T,UK,Pa,Ir @ 71.2', 73.9'		
							72		509					
PQ	10	5.0	5.0	4.4	100	88	73		508					
							74		507					
							75		506					
													fractured, solutioned @ 73.5-73.8' 90°,J,T,No,No,Ir @ 73.5-74.0' 0°,B,N (solutioned) @ 73.8', 74.2'	Core box #6 starts @ 73.5'

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# BLACK & VEATCH

# BORING LOG

BORING NO. HM-E1  
SHEET 6 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 5985.3'	GROUND ELEVATION (DATUM) E 4530.2'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Paved Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY <i>GC/Grainger</i> TB for Grainger/Mass	CHECKED BY <i>GC/Grainger</i> Dodgey/Grainger	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							75		506		pitted @ 75.0-75.1'		
							76		505			Bottom of boring @ 75.5'. Water level at 20.2' @ completion of drilling. Boring backfilled with bentonite chips on 09/13/07.	
							77		504				
							78		503				
							79		502				
							80		501				
							81		500				
							82		499				
							83		498				
							84		497				
							85		496				
							86		495				
							87		494				
							88		493				
							89		492				
							90		491				



# BLACK & VEATCH

# BORING LOG

BORING NO. PS-E1

SHEET 1 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6164.9'	GROUND ELEVATION (DATUM) E 4247.2'	TOTAL DEPTH 28.8 (feet)
SURFACE CONDITIONS Hummock spoil area		COORDINATE SYSTEM Plant	DATE START 08/28/07	DATE FINISHED 08/29/07

LOGGED BY <i>GEO for Grainger</i>		CHECKED BY <i>EM Meyer</i> Dogbey/Grainger	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	1	4	8	12	0.8	0		579		Well graded SAND with Silt (SW-SM) - About 90% fine to medium sand; about 10% medium plasticity, medium toughness, no dilatancy fines; dark grayish brown; moist; (Fill).	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.	
							1		578				
							2		577				
							3		576				
							4		575				
							5		574				
							6		573				
							7		572				
							8		571				
							9		570				
							10		569				
							11		568				
							12		567				
							13		566				
							14		565				
							15						

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PP = 0.25 TSF @ 15.5'



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# BORING LOG

BORING NO. PS-E1

SHEET 2 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6164.9'	GROUND ELEVATION (DATUM) E 4247.2'	TOTAL DEPTH 579.9 ft (NAVD 88) 28.8 (feet)
SURFACE CONDITIONS Hummock spoil area		COORDINATE SYSTEM Plant	DATE START 08/28/07	DATE FINISHED 08/29/07

SAMPLING		LOGGED BY <i>Geo For Grainger</i>	CHECKED BY <i>Geo For Dogbey/Grainger</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD	
SPT	5	WOH	2	3	5	1.5	
TW	6					0.5	
SPT	7	10	20	25	45	1.5	
SPT	8	5	50/4"	-	50+	NR	

15	564						
16	563						
17	562						
18	561						
19	560						
20	559						
21	558						
22	557						
23	556						
24	555						
25	554						
26	553						
27	552						
28	551						
29	550						
30							

17.0'	Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium, rounded, hard gravel; dark grayish brown; firm; moist; weak reaction w/HCl; homogeneous; (Glacial Till).
21.0'	grades w/few gravel @ 21.0'
21.8'	Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; very dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).
27.0'	grades w/few cobbles @ 27.0'
28.0'	Hard drilling @ 28.0'. Auger refusal at 28.8'.
28.8'	Bottom of boring @ 28.8'. Water level @ 8.6' @ completion of

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# BORING LOG

BORING NO. PS-E1  
SHEET 3 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6164.9'	GROUND ELEVATION (DATUM) E 4247.2'	TOTAL DEPTH 28.8 (feet)
SURFACE CONDITIONS Hummock spoil area		COORDINATE SYSTEM Plant	DATE START 08/28/07	DATE FINISHED 08/29/07

SAMPLING		LOGGED BY <i>Grainger</i>	CHECKED BY <i>Grainger</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
SET	6 INCHES	30					drilling. Backfilled w/ bentonite chips on 08/29/07.
2ND	6 INCHES	31		549			
3RD	6 INCHES	32		548			
N	VALUE	33		547			
SAMPLE RECOVERY		34		546			
		35		545			
		36		544			
		37		543			
		38		542			
		39		541			
		40		540			
		41		539			
		42		538			
		43		537			
		44		536			
		45		535			



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C1  
SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>7B for</i> Grainger/Mass		CHECKED BY <i>7B for</i> Dogbey/Mass	APPROVED BY <i>7B for</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		579		Well graded GRAVEL with Silt and Sand (GW - GM) - About 75% fine to coarse, angular, hard gravel w/ max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines (silt); dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							1	578					
							2	577					
							3	576					
							4	575					
			5.0				5	574			cobble @ 5.5'	Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1 collected from S-1.	
S	1					2.0	6	573					
							7	572					
							8	571					
							9	570					
			10.0				10	569			Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; light gray & yellowish red, mottled; soft; moist; weak reaction w/HCl; (Lacustrine Deposit).	Gray clay on sonic sample barrel after 10' to 15' sample attempt.	
							11	568					
							12	567					
S	2					0.0	13	566					
							14	565					

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# BORING LOG

BORING NO. RB-C1  
SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>TS for Grainger/Mass</i>	CHECKED BY <i>TS for Dogbey/Mass</i>	APPROVED BY <i>TS for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	2	2	2	3	5	1.3	15		564		Lean CLAY with Sand (CL) - About 82% LL=37, PL=18, no dilatancy, medium dry strength fines; about 18% fine to medium sand; reddish brown & yellowish red; soft; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Set nominal 6" temporary steel casing to 15.0'. Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-2 into two jars, A & B	
P	3					0.0	20		559		Lean CLAY with Sand (CL) - About 71% LL=23, PL=13, slow dilatancy, high dry strength fines; about 27% fine to coarse, rounded to subrounded sand; about 2% fine to coarse, subangular, hard gravel; (Glacial Till).	Attempted pitcher sample @ 20', refusal to sampler @ 20.2'.	
TW	4					1.5	22		557			Thin wall refusal @ 22.5'. PP>4.5 TSF @ 22.5'.	
							23		556				
							24		555				
SPT	5	10	13	18	31	1.3	25		554		Sandy Silty CLAY (CL-ML) - About 52% LL=18, PL=11, slow dilatancy, high dry strength fines; about 35% fine to coarse, rounded to subrounded sand; about 13% fine to coarse, subangular, hard gravel; (Glacial Till).		
							26		553				
							27		552				
							28		551				
							29		550				
							29.0		550		DOLOMITE; undifferentiated.	Tricone bit refusal @ 29.0'. Below 29.0'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C1  
SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>TB for Grainger/Mass</i>	CHECKED BY <i>TB for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	6					5.0	30		549			continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							31		548		DOLOMITE; dark gray; micritic; crystalline; slightly weathered; very strong; very hard; medium bedded; (Bass Islands Group). soft weathered bed @ 32.0-33.0'	
							32		547			
							33		546		fractured along 90° J @ 33.0-34.0'	
			34.0				34		545		DOLOMITE; very dark grayish brown; vuggy; fine grained (crystalline); slightly weathered; very strong; hard; some vugs filled w/calcium carbonate; (Bass Islands Group). 90°, J, No, No, PI, SR @ 35.0-38.2'	Set nominal 6" temporary steel casing to 33.6'. Below 34.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 34.0'. Water level @ 9.0' prior to drilling on 07/13/07. Drill chatter @ 34.5'. Drill chatter @ 35.5'.
HQ	1	5.0	5.0	2.1	100	42	35		544			
							36		543		DOLOMITE; dark gray; micritic; slightly weathered; very strong; hard; banded w/argillaceous dolomite; (Bass Islands Group). 0°, B, No, No, PI, SR @ 36.7, 38.6' 90°, J, No, No, PI, SR @ 36.7-38.6'	
							37		542			
							38		541		90°, J, No, No, PI, SR @ 37.7-38.8'	
			39.0				39		540		70°, J, No, No, PI, SR @ 39.0-39.2', 39.2-39.8' closely spaced stylolites @ 39.0-40.1'	
							40		539			
							41		538		90°, J, Ca, Fi, PI, SR @ 40.4-40.8' highly fractured @ 40.8-42.4' grades dark grayish brown @ 40.8'	
HQ	2	5.0	4.9	2.9	98	58	42		537			Drill chatter @ about 42.0'. Drill chatter @ about 42.5'.
							43		536			
							44		535		70°, J, T, Ca, Fi, PI @ 42.4-43.0' closely spaced stylolites @ 42.4-42.6'  closely spaced stylolites @ 43.5'	Water level @ 10.5' prior to drilling on 07/14/07.
			44.0				45		535		70°, J, Ca, Pa, PI, SR @ 44.4-44.8'	

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**BORING LOG**

BORING NO. RB-C1  
SHEET 4 OF 19

CLIENT		PROJECT		PROJECT NO.										
Detroit Edison		Fermi 3 COL Application		147483										
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)										
Monroe, MI		N 6273.2' E 4445.3'		579.2 ft (NAVD 88)										
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START										
Gravel Parking Lot		Plant		06/14/07										
DATE FINISHED				07/26/07										
SAMPLING		LOGGED BY		CHECKED BY										
		Grainger/Mass		Dogbey/Mass										
APPROVED BY				Meyer										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORING														
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
HQ	3	5.0	5.0	2.0	100	40	45		534		very closely spaced stylolites @ 44.9' 70°, J, No, No, PI, SR @ 45.0-45.4' 90°, J, Ca, Pa, WA, SR @ 45.7-47.4'	Core box #2 starts @ 48.4'.		
							46	533						
							47	532						
							48	531						
							49	530						
							50	529						
HQ	4	5.0	5.0	1.9	100	38	51	528					90°, J, UK, Pa, PI, SR @ 50.2-50.5' (2) claystone parting; black; fresh; moderately strong; medium hard; 0.03' thick @ 50.5'	
							52	527						
							53	526						
							54	525						
							55	524						
HQ	5	5.0	4.2	1.7	84	34	56	523			80°, J, No, No, PI, SR @ 56.4-56.9' 70°, J, UK, Pa, PI, SR @ 57.3-57.6' 90°, J, No, No, PI, R @ 57.7-58.0'	Drill chatter @ 54.5'.		
							57	522						
							58	521						
							59	520				Core loss @ 58.2-59.1'. No drilling fluid return @ 59.0'.		
							60				highly fractured @ 59.7-60.9'			

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>Go for</i> Grainger/Mass	CHECKED BY <i>SP for</i> Dogbey/Mass	APPROVED BY <i>em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	6	5.0	5.0	3.5	100	70	60		519				
							61		518			DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Bass Islands Group).	
							62		517			dolomite & shale; dolomitic; white and gray, mottled; micritic to very fine grained; fresh; strong; moderately hard; 0.2' thick @ 61.9-62.1'	
							63		516			DOLOMITE; oolitic; light gray; medium to coarse grained (crystalline); fresh; very strong; very hard; grains approximately 0.02-0.04" diameter; (Bass Islands Group).	
			64.0				64		515				Core box #3 starts @ 64.0'
							65		514			0°, B, UK, Fi, PI, SR @ 65.4'	
HQ	7	5.0	5.0	4.3	100	86	66		513			DOLOMITE; light gray, banded; micritic to very fine grained; fresh; moderately strong; moderately hard; w/convoluted partings of black; very fine grained; fresh; moderately strong; moderately hard shale; (Bass Islands Group).	
							67		512			30°, J, W, Cl, Fi, PI, SR @ 65.7-65.8'	
							68		511			claystone band; brecciated; gray; very fine grained; highly weathered; very weak; low hardness; 0.6" thick @ 65.9'	
							69		510			0°, B, Cl, Fi, PI, SR @ 66.3'	
			69.0				70		509			shale parting; black; very fine grained; fresh; moderately strong; moderately hard @ 68.4'	
							71		508			40°, J, Ca, Pa, PI, R @ 70.1-70.3'	
HQ	8	5.0	5.0	2.0	100	40	72		507			highly fractured @ 70.5-71.5'	
							73		506			DOLOMITE; gray; micritic; fresh; strong; hard; w/ widely spaced stylolites; few shale partings; pitted zones; (Bass Islands Group).	
							74		505			highly fractured @ 71.7-71.8', 72.0-72.1', 72.7-73.1'	
			74.0				75		504			60°, J, Ca, Pa, PI, SR @ 72.4-72.7'	
												highly fractured @ 73.6-74.9'	Drill chatter @ 73.5-74.0'.



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# BORING LOG

BORING NO. RB-C1

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>Go for</i> Grainger/Mass	CHECKED BY <i>EM for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
HQ	9	5.0	5.0	3.7	100	74	75		504		grades light brownish gray; w/closely to moderately wide spaced stylolites @ 74.9'		
							76		503				
							77		502				
							78		501		highly fractured @ 77.7-78.0' 30°, J, Cl, Pa, PI, SR @ 78.0-78.2' 150°, J, Cl, Pa, PI, SR @ 78.2-78.5'		
			79.0				79		500			Core box #4 starts @ 79.0'	
							80		499		grades w/increased pitted zones; some very closely spaced stylolites @ 80.0'		
HQ	10	5.0	4.6	3.4	92	68	81		498				
							82		497		90°, J, Ca, Pa, PI, SR @ 82.1-82.4' 30°, J, No, No, PI, SR @ 82.3-82.4' 60°, J, Ca, Pa, PI, SR @ 82.4'		
							83		496				
			84.0				84		495		highly fractured @ 84.4-87.3'	Core loss of 2.2' @ 84.4-87.3'	
							85		494				
HQ	11	5.0	2.8	0.7	56	14	86		493				
							87		492		90°, J, Cl, Pa, WA, SR @ 87.4-87.9'		
							88		491		shale band; black; platy; very fine grained; fresh; moderately strong; hard @ 88.0-88.1' 90°, J, No, No, PI, SR @ 88.1-88.3', 88.1-88.4' (2 sets) 70°, J, No, No, PI, SR @ 88.6-88.9'		
			89.0				89		490		SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness; (Bass Islands		
							90		490				

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BORING LOG

BORING NO. RB-C1

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>Grainger/Mass</i>		CHECKED BY <i>EM for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	12	3.8	2.0	0.0	53	0	90		489		(Group). -----89.5	Drill chatter constantly @ 91.0-94.0'.  Core barrel jammed @ 92.8'.  Core loss @ 94.0-94.2'. Drill chatter @ 94.5'.  Water level @ 19.3' prior to drilling on 07/15/07.  Core box #5 starts @ 97.9'.	
							91		488		DOLOMITE; grayish brown; micritic; fresh; very strong; very hard; trace shale partings; (Bass Islands Group). highly fractured @ 89.5-92.8'		
							92		487				
HQ	13	1.2	0.8	0.0	67	0	93		486		90°, J, Cl, Fi, Pi, SR @ 92.8-93.3'  w/few widely spaced stylolites @ 92.8'		
							94		485		94.0 highly fractured @ 94.2-94.9'		
							95		484		grades very fine grained (crystalline) @ 95.0' very closely spaced stylolites @ 95.1'		
HQ	14	5.0	4.8	2.4	96	48	96		483		90°, J, No, No, Pi, SR @ 95.5-96.3'  70°, J, No, No, Pi, SR @ 96.3-96.4' 40°, J, No, No, Pi, SR @ 96.7-96.8' 140°, J, No, No, Pi, SR @ 96.7-96.8' 0°, B, UK, Pa, Pi, SR @ 96.8' vuggy @ 97.0-97.2'		
							97		482		80°, J, No, No, Pi, SR @ 97.2-97.3' 0°, B, No, No, Pi, R @ 97.3'		
							98		481		80°, J, Cl, Pa, Pi, SR @ 97.6-98.5' 10°, J, Cl, Pa, Pi, SR @ 97.7'		
							99		480		30°, V, MW, Cl, Fi @ 99.2-99.3' -----99.3		
							100		479		DOLOMITE; argillaceous; gray, banded; micritic; fresh; strong; hard; w/black; very fine grained; fresh; moderately strong; moderately hard shale partings; (Bass Islands Group).		
HQ	15	5.0	4.8	0.7	96	14	101		478		90°, J, Cl, Pa, Pi, SR @ 100.8-101.5' highly fractured @ 101.0-101.2'		
							102		477		highly fractured @ 101.9-102.0' 90°, J, No, No, Pi, SR @ 102.0-102.1'		
							103		476		40°, J, Cl, Pa, Pi, Sik @ 102.7-103.0'		
							104		475		90°, J, Cl, Pa, Pi, S @ 103.5-104.0'		
							105		475		30°, J, Cl, Pa, Pi, SR @ 104.0'		

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BORING LOG

BORING NO. RB-C1

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3' 579.2 ft (NAVD 88)	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	16	5.0	4.4	2.4	88	48	105		474		highly fractured @ 104.9-105.2'	
							106		473		90°, J, Cl, Pa, Pl, SR @ 105.7-105.8' 70°, J, Cl, Pa, Pl, SR @ 105.8-105.9' highly fractured @ 106.0-106.8'	
							107		472		80°, J, Ca, Pa, Pl, SR @ 106.8-107.3' 30°, J, Cl, Fi, Pl, SR @ 107.1-107.2'	
							108		471		0°, J, Cl, Fi, Pl, SR @ 107.6' 10°, V, N, Cl, Fi, Pl, SR @ 107.9'	
			109.0				109		470			
							110		469		highly fractured @ 109.9-110.1'	
HQ	17	5.0	5.0	2.8	100	56	111		468		DOLOMITE; light brownish gray; micritic; fresh to slightly weathered; very strong; hard; w/vuggy zones & widely spaced stylolites; (Bass Islands Group).	
							112		467		90°, J, Cl, Pa, WA, SR @ 111.7-111.8' highly fractured @ 112.0-112.2'	
							113		466		60°, J, No, No, St, SR @ 112.4-112.9' 60°, J, No, No, Pl, SR @ 112.7-113.1'	Core box #6 starts @ 112.7'.
							114		465		20°, J, No, No, Pl, SR @ 113.2'	
			114.0				115		464		70°, J, Cl, Pa, Pl, S @ 113.9-114.1'	HQ-18: core fell out of core barrel into hole; ultimately recovered core.
HQ	18	5.0	5.0	3.7	100	74	116		463		DOLOMITE; argillaceous; dark gray; very fine to fine grained; fresh; strong; moderately hard; (Bass Islands Group).	
							117		462		0°, B, Cl, Pa, Pl, SR @ 115.4-115.8'	
							118		461		DOLOMITE; grayish brown; vuggy; very fine to fine grained; slightly weathered; strong; moderately hard; w/closely to very closely spaced stylolites; (Bass Islands Group).	
							119		460		80°, J, Cl, Pa, Pl, SR @ 117.7-117.8' 0°, B, No, No, Pl, SR @ 118.1' 20°, J, Ca, Pa, Pl, SR @ 118.3-118.4'	
			119.0				120		460		50°, J, Cl, Pa, Pl, SR @ 119.0-119.1'	
											DOLOMITE & DOLOMITE; argillaceous; greenish	

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# BORING LOG

BORING NO. RB-C1

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>GO for</i> Grainger/Mass	CHECKED BY <i>TP for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	19	5.0	3.7	2.2	74	44	120		459		gray (argillaceous dolomite) mottled w/grayish brown (dolomite); very fine grained; fresh to slightly weathered; strong; very hard; vugs in dolomite; (Bass Islands Group), 60°, J, Cl, Pa, Pl, SR @ 119.8-119.9'		
							121		458		joints filled w/large (0.4-0.8") anhydrite crystals @ 121.3-121.4'		
							122		457		30°, J, anhydrite, Fi, Pl, SR @ 121.3-121.4'		
							123		456		140°, J, anhydrite, Fi, Pl, SR @ 121.3-121.4'		
							124		455			Core loss @ 124.0-125.4'	
			124.0				125		454		highly fractured @ 125.4-126.1'		
HQ	20	5.0	3.6	0.0	72	0	126		453		DOLOMITE & SHALE; dolomitic; dark gray to very dark gray w/bands of grayish brown; micritic to very fine grained; fresh; moderately strong; moderately hard; (Salina Group - Unit F). highly fractured @ 126.4-126.9'		
							127		452		90°, J, Cl, Pa, Pl, SR @ 127.4-127.6'		
							128		451		claystone band; dolomitic; brecciated; very dark gray; highly weathered; very weak; low hardness; w/angular fragments of dolomite @ 127.8-128.0'		
							129		450		70°, J, Ca, Fi, Pl, SR @ 128.5-128.6'		
			129.0				130		449		90°, J, No, No, Pl, SR @ 128.6-129.0'	Core box #7 starts @ 129.0'	
							131		448		mottled w/anhydrite beds @ 130.8-131.0'		
HQ	21	5.0	4.0	1.4	80	28	132		447		highly fractured @ 131.3-131.6'		
							133		446		70°, J, anhydrite, Pa, Pl, SR @ 132.1-132.3'		
							134		445		mottled w/anhydrite beds, anhydrite crystals fill part of 70° joint @ 132.2-132.5'		
							135		444		dolomite band; light gray; vuggy; micritic; slightly weathered; strong; very hard @ 132.5-132.6'		
									443		limestone; black; vuggy; very fine grained; slightly weathered; strong; hard @ 132.7-133.1'		
			134.0						442		SHALE; dolomitic; gray; platy; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	Core loss throughout @ 134.2-138.2'	

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# BORING LOG

BORING NO. RB-C1

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>TR for</i> Grainger/Mass		CHECKED BY <i>TR for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	22	5.0	1.8	0.0	36	0	135		444		LIMESTONE; vuggy; very dark grayish brown; very fine grained; slightly to moderately weathered; strong; moderately hard; highly fractured; (Salina Group - Unit F).		
							136		443				
							137		442				
							138		441				
							139		440				
HQ	23	2.5	2.4	0.5	96	20	139.0		439		CLAYSTONE; dolomitic; dark gray; highly weathered; weak; low hardness; (Salina Group - Unit F). gray; slightly weathered; strong; moderately hard @ 139.0 -139.8' 80°,J,Cl,Fi,PI,SR @ 139.2-139.4' very weak @ 139.8-140.5'	PP = 2.3 TSF TV = 1.7 TSF @ 139.8'	
							140		438				
							141		438				
							142		437				
HQ	24	2.5	1.5	0.4	60	16	141.5		436		slightly weathered; strong; moderately hard @ 140.5-141.4' 40°,J,Cl,Fi,PI,SR @ 140.7-140.8',140.9-141.1'	Core loss @ 141.4-141.5'. Discrete sample 7-A collected @ 142.5-142.9'	
							143		436				
							144		435				
HQ	25	2.5	2.0	0.4	80	16	144.0		435		gray; very weak; friable @ 142.5-142.9' slightly to moderately weathered; moderately strong; moderately hard @ 142.9-143.5' 90°,J,Cl,Fi,PI,SR @ 143.0-143.2', 143.3-143.4' w/weaker claystone @ 143.3-143.4' grades very dark gray @ 143.5'	Core loss @ 144.0-144.5'.	
							145		434				
							146		433				
							147		432				
HQ	26	2.5	2.0	0.0	80	0	146.5		432		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). 90°,J,No,No,PI,SR @ 145.1-145.6'	Discrete sample 7-B collected @ 147.0-149.0' for chemical analysis.	
							148		431				
							149		430				
							150		430				

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# BORING LOG

BORING NO. RB-C1

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>TB for Grainger/Mass</i>	CHECKED BY <i>EM for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD						
HQ	27	2.5	2.5	0.0	100	0	150		429		highly weathered; very weak to extremely weak; low hardness to friable @ 149.0-151.0'	18.1' prior to drilling on 07/16/07. Hole @ 149.0'.
							151		428		moderately strong; moderately hard @ 151.0-151.5'	
			151.5				152		427		highly weathered; very weak @ 152.0-152.8'	Core loss @ 151.5-152.0'.
HQ	28	2.5	2.0	1.2	80	48	153	X	426		light greenish gray; slightly to moderately weathered; moderately strong; moderately hard @ 152.8-154.0'	Discrete sample 8-A collected @ 152.8-153.4'. Drill chatter @ 153.5-154.0'. Core loss @ 154.0-156.5'.
			154.0				154		425			
							155		424			
HQ	29	5.0	2.5	0.0	50	0	156		423		grades moderately to highly weathered; weak to very weak; hydrocarbon odor @ 156.5'	
							157		422			
							158		421			
							159		420			
HQ	30	2.5	2.5	0.4	100	16	160	X	419		CLAYSTONE; dolomitic; gray; moderately to highly weathered; weak; low hardness; strong hydrocarbon odor; w/highly fractured, sand- & gravel-sized fragments of dolomite partings; (Salina Group - Unit F).	Discrete sample 8-B collected @ 159.8-160.6' for chemical analysis.
							161		418			
			161.5				162		417		grades very dark gray @ 161.5'	
HQ	31	2.5	2.0	1.2	80	48	163	X	416		CLAYSTONE; dolomitic; gray; slightly to moderately weathered; moderately strong; moderately hard; hydrocarbon odor; w/highly fractured, sand- and gravel-sized fragments of dolomite partings; (Salina Group - Unit F).	Discrete sample 8-C collected @ 162.8-164.0'.
			164.0				164		415			
							165		415			

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# BORING LOG

BORING NO. RB-C1

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>Rob for</i> Grainger/Mass	CHECKED BY <i>sm for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	32	2.5	2.3	0.0	92	0	165		414			
			166.5						413			
HQ	33	1.2	1.2	0.0	100	0	167		412		dolomite band; argillaceous; gray; very fine grained (crystalline); fresh; strong; hard @ 166.3-166.5' 40° J,Ci,Pa,Pl,SR @ 166.3-166.4', 166.4-166.5' 90° J,Ci,Pa,Pl,SR @ 166.3-166.5'	Discrete sample 8-D collected @ 166.5-167.5' for chemical analysis. Core box #9 starts @ 167.7'. Core barrel jammed @ 167.7'.
			167.7						411			
HQ	34	1.3	0.1	0.0	8	0	169		410			
			169.0						409			
HQ	35	2.5	1.8	0.0	72	0	170		409		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; highly weathered; very weak; friable; w/angular clasts of dolomite; argillaceous; (Salina Group - Unit F).	Drill chatter @ about 170.0'.
			171						408			
			171.5						407			
HQ	36	2.5	1.8	0.0	72	0	173		406			
			174						405			
			174.0						404			
HQ	37	2.5	2.2	0.0	88	0	175		404		shale parting; black; platy; very fine grained; fresh; moderately strong; moderately hard @ 175.2'	
			176						403			
			176.5						402			
HQ	38	2.5	1.4	0.0	56	0	177		402		DOLOMITE; argillaceous; gray; very fine to fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 125° J,Ci,Fi,Pl,SR @ 176.0-176.5' 110° J,Ci,Pa,Pl,SR @ 176.4-176.5' 60° J,Ci,Pa,Pl,SR @ 176.4-176.5'	
			178						401			
			178.5						401			
			179						400			
			179.0						400			
							180					
												Water level @ 18.2' prior to drilling on
												dolomite bands; argillaceous; gray; micritic to very

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# BORING LOG

BORING NO. RB-C1

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>TB for</i> Grainger/Mass		CHECKED BY <i>SM for</i> Dogbey/Mass	APPROVED BY <i>SM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	39	2.0	0.8	0.0	40	0	180		399		fine grained; slightly weathered; strong; moderately hard to hard @ about 179.8-180.4' grades brecciated (healed) @ 180.4'	07/17/07. Hole @ 178.8'. Core loss throughout @ 179.0-181.0'.	
			181.0				181		398				
HQ	40	2.5	2.4	0.7	96	28	182		397		40° J, CI, Fi, PI, SR @ 182.4-182.6'		
			183.5				183	X	396		CLAYSTONE; dolomitic; very dark gray to gray; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Discrete sample 9-A collected @ 182.8-183.5'. Core loss throughout @ 183.5-186.0'.	
HQ	41	2.5	1.0	0.0	40	0	184		395		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; dark bluish gray; moderately weathered; moderately strong; moderately hard w/angular clasts of dolomite; light brownish gray; micritic; fresh to slightly weathered; moderately strong; moderately hard; some vuggy clasts; (Salina Group - Unit F).		
			186.0				185		394		dolomite parting; light brownish gray; micritic; slightly weathered; moderately strong; moderately hard @ 184.8'		
HQ	42	2.5	1.7	0.4	68	16	186		393		light gray; highly weathered; very weak; low hardness @ 186.8-187.2'		
			188.5				187		392		highly fractured zone; consists of angular fragments of dolomite (as described @ 184.3') and calcite; white; micritic; fresh; strong; hard @ 187.2-188.1'		
HQ	43	2.5	0.7	0.0	28	0	188		391			Core loss @ 188.5-190.3'.	
			191.0				189		390		dark gray; highly weathered; weak; low hardness @ 190.3-190.8'		
HQ	44	2.5	0.0	0.0	0	0	190		389		very dark greenish gray; slightly weathered @ 190.8-191.0'		
			193.5				191		388				
HQ	45	2.5	0.5	0.0	20	0	192		387		BRECCIA - dolomite clasts in a poorly indurated	Water level @ 17.4' prior to drilling on 07/18/07.	
							193		386				
							194		385				
							195		385				

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# BORING LOG

BORING NO. RB-C1

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>Robert Grainger/Mass</i>		CHECKED BY <i>S. M. Taylor Dogbey/Mass</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								195		384		claystone matrix: claystone matrix; gray; highly weathered, weak to very weak; low hardness to friable; w/angular clasts of dolomite; greenish gray to dark gray; micritic to very fine grained; fresh; strong; hard; (Salina Group - Unit F).	Core box #10 starts @ 196.0'. Core loss @ 196.0-197.2'.
HQ	46	2.5	1.3	0.0	52	0		196		383		grades dark gray @ about 197.2'	
								197		382		90° J, Ca, Fi, PI, SR @ 198.3-198.5'	Core loss between 199.5-199.9' and 200.5-200.9'.
HQ	47	2.5	1.7	0.0	68	0		198		381		DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
								199		380		grades pale yellow @ 199.7'	Core loss throughout @ 201.0-205.0'.
HQ	48	2.5	0.7	0.0	28	0		200		379		claystone band; white; very fine grained; highly weathered; very weak; low hardness @ 200.1-200.3' 20° J, Cl, Fi, PI, SR @ 200.3'	
								201		378		LIMESTONE; dark olive brown & light brownish gray; pitted/vuggy; very fine to fine grained; slightly to moderately weathered; strong; moderately hard; pits/vugs 0.02-0.4"; trace vugs filled w/anhydrite; (Salina Group - Unit F).	Water level @ 17.3' prior to drilling on 07/19/07. Hole @ 206.0'. Core loss @ 206.0-207.2'.
HQ	49	2.5	0.9	0.0	36	0		202		377		highly fractured (consists of angular fragments of vuggy limestone and argillaceous dolomite) @ 201.0-203.5'	
								203		376			w/limestone bands; dark gray; pitted; micritic; slightly weathered; strong; hard; some pits filled w/dolomite @ 208.0-208.5'
HQ	50	2.5	1.3	0.0	52	0		204		375		BRECCIA - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; very dark gray; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; light gray; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F).	
								205		374			gray; highly weathered; weak to very weak; low hardness; fewer fragments of dolomite @ 207.2-208.0'
HQ	51	2.5	0.0	0.0	0	0		206		373			
								207		372			
HQ	51	2.5	0.0	0.0	0	0		208		371			
								209		370			
								210		370			

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BORING LOG

BORING NO. RB-C1

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Doobey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							210		369			
			211.0				211		368		highly fractured @ 211.2-211.6' claystone band; gray; highly weathered; weak; low hardness @ 211.5-211.6'	Core loss @ 211.0-211.2'
HQ	52	2.5	2.3	0.0	92	0	212		367		LIMESTONE; olive gray & very dark gray; vuggy; micritic; slightly to moderately weathered; strong; very hard; (Salina Group - Unit F).	
			213.5				213		366		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes); (Salina Group - Unit F).	Core loss @ 213.5-213.9'
HQ	53	2.5	2.1	0.0	24	0	214		365		90°, J, Cl, Pa, Pl, SR @ 213.0-213.4' claystone parting; white; highly weathered; very weak; low hardness to friable @ 213.0'	
			216.0				215		364		40°, J, Cl, Pa, Pl, SR @ 213.4-213.6', 213.6-213.7' 170°, J, Cl, Pa, Pl, SR @ 213.5' 30°, J, Cl, Pa, Pl, SR @ 213.5' claystone lens w/fragments of dolomite @ 214.3-214.5', 214.7-214.9'	Core loss @ 216.0-217.1'
							216		363		70°, J, Cl, Pa, Pl, S @ 214.5-214.7' 120°, J, Cl, Pa, Pl, S @ 214.5-214.6' highly fractured @ 215.2-215.4' 50°, J, No, No, Pl, R @ 215.6-215.8'	
HQ	54	5.0	3.5	0.4	70	8	217		362		CLAYSTONE; dolomitic; gray; highly weathered; very weak; low hardness; strong hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines; (Salina Group - Unit F).	
							218		361		shale band; dark greenish gray; fissile; very fine grained; fresh; moderately strong; hard; strong hydrocarbon odor @ 218.1-218.3'	
							219		360		85°, J, No, No, Pl, R @ 218.6-218.9'	Core box #11 starts @ 219.6'
							220		359		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							221		358		50°, J, Cl, Pa, Pl, SR @ 220.0-220.1'	Core loss @ 221.0-223.0'
			221.0				222		357		LIMESTONE; dark greenish gray; pitted/vuggy; micritic; slightly to moderately weathered; strong; hard; pits/vugs 0.02-0.6"; (Salina Group - Unit F).	
							223		356		highly fractured w/limestone & dolomite fragments @ 223.0-223.4'	
HQ	55	5.0	3.0	1.4	60	28	224		355		90°, J, Cl, Fi, Pl, SR @ 223.5-223.9'	
							225		355		DOLOMITE; argillaceous; light gray & light brownish gray, banded; micritic; fresh; very strong; very hard; (Salina Group - Unit F).	

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BORING LOG

BORING NO. RB-C1

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3' 579.2 ft (NAVD 88)	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

SAMPLING		LOGGED BY <i>EM for TB for</i> Grainger/Mass	CHECKED BY <i>EM for TB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							225		354		90°, J, Cl/Ca, Pa, PI, SR @ 223.9-224.4' 135°, J, Ca, Pa, PI, SR @ 224.3-224.4'	
HQ	56	0.5	226.0 0.5	0.0	100	0	226		353		LIMESTONE; dark greenish gray; pitted/vuggy; micritic; slightly to moderately weathered; strong; hard; pits/vugs 0.02-0.6"; (Salina Group - Unit F). highly fractured @ 224.5-224.7'	Water level @ 24.5' prior to drilling on 07/24/07. Core barrel jammed @ 226.5'. HQ-57 drilled very slowly. Core loss @ 226.5-226.9'.
HQ	57	1.5	226.5 1.1	0.5	73	33	227		352		30°, J, Ca, Pa, PI, SR @ 224.7' 20°, J, Ca, Pa, PI, SR @ 225.5' 80°, J, Ca, Fi, PI, SR @ 225.7-226.0'	
HQ	58	2.2	228.0 1.8	0.0	82	0	228		351		DOLOMITE; grayish brown; very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 20°, J, Ca, Pa, PI, SR @ 226.3-226.4' 80°, J, Ca, Pa, PI, SR @ 226.3-226.5' highly fractured; some vertical fractures filled w/calcite @ 226.9-227.5'	
HQ	59	0.8	230.2 0.8	0.0	100	0	229		350		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard to very hard; w/zones of very closely spaced (about 2.4" apart) stylolites; (Salina Group - Unit F). 110°, J, Ca, Pa, PI, SR @ 227.5-227.6' 75°, J, T, WA, @ 227.6-228.0' grades very dark greenish gray; hard; highly fractured; w/trace limestone fragments @ 228.0'	Core loss @ 231.0-233.7'.
HQ	60	5.0	231.0 2.3	0.0	46	0	230		349		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; very hard; (Salina Group - Unit F). grades grayish brown to greenish gray @ 233.7' 20°, J, Ca, Fi, PI, SR @ 233.8' 50°, J, No, No, PI, S @ 234.0-234.2'	
HQ	61	1.0	233.3 1.0	0.0	100	0	231		348		DOLOMITE & BRECCIA; DOLOMITE: argillaceous; greenish gray to grayish brown; micritic; fresh; strong; very hard; BRECCIA - dolomite clasts in a well indurated claystone matrix: healed; claystone matrix; dolomitic; dark gray; slightly weathered; strong; moderately hard; angular sand- & gravel-sized clasts of dolomite; rock types separated by approximately 90° joints; (Salina Group - Unit F). 60°, J, No, No, PI, S @ 234.3-234.4' 150°, J, No, No, PI, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, PI, S @ 235.4-235.6'	PID = 1.2ppm
HQ	62	4.0	236.0 1.0	0.0	25	0	232		347		CLAYSTONE; dolomitic; gray; highly weathered; very weak to extremely weak; low hardness to friable; hydrocarbon odor; properties comparable to high plasticity, low toughness, slow to rapid dilatancy soil fines; w/highly fractured dolomite partings; (Salina Group - Unit F).	Core barrel jammed @ 237.0'. Core loss throughout @ 237.0-241.8'.

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# BORING LOG

BORING NO. RB-C1

SHEET 17 OF 19

CLIENT		PROJECT		PROJECT NO.						
Detroit Edison		Fermi 3 COL Application		147483						
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)						
Monroe, MI		N 6273.2'		E 4445.3'						
				579.2 ft (NAVD 88)						
SURFACE CONDITIONS			COORDINATE SYSTEM		DATE START					
Gravel Parking Lot			Plant		06/14/07					
DATE FINISHED										
07/26/07										
SAMPLING			LOGGED BY		CHECKED BY					
			Grainger/Mass		Dogbey/Mass					
APPROVED BY			Meyer							
CORING			DEPTH (FEET)		SAMPLE TYPE					
ELEVATION (FEET)			GRAPHIC LOG		CLASSIFICATION OF MATERIALS					
					REMARKS					
CORE SIZE										
RUN NUMBER										
RUN LENGTH										
RUN RECOVERY										
RQD										
PERCENT RECOVERY										
RQD										
HQ	63	5.0	4.1	1.5	82	30	240	339	DOLOMITE; argillaceous; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). grades gray; very hard @ 239.0'	
			241.0				241	338		
							242	337	grades light brownish gray; w/dark gray shale partings @ 241.8'	
							243	336	0°, B, CI, Fi, PI, S @ 242.6', 243.0' 60°, J, No, No, PI, SR @ 242.8' 30°, J, No, No, PI, SR @ 243.2-243.3' 140°, J, No, No, PI, SR @ 243.2-243.3'	Core box #12 starts @ 242.8'. Core loss @ 243.3-243.4'.
							244	335	DOLOMITE; light brownish gray; pitted; micritic; fresh; very strong; very hard; w/fossils (ostracodes) dissolved to form pits; (Salina Group - Unit E). 40°, J, No, No, PI, SR @ 243.5-243.6'	
							245	334	dense fossil beds @ 243.7', 244.2-244.5', 245.2-245.4', 246.6', 246.8' argillaceous @ 243.8-244.0', 244.7-244.8'	
			246.0				246	333	90°, J, No, No, PI, SR @ 244.0-244.3' 20°, J, No, No, PI, SR @ 245.2'	
							247	332	highly fractured @ 245.2-245.5'	
HQ	64	5.0	4.0	3.0	80	60	248	331	CLAYSTONE; dolomitic; pale yellow; highly weathered; very weak; low hardness to friable; hydrocarbon odor; properties comparable to low plasticity, low toughness, rapid dilatancy soil fines; (Salina Group - Unit E).	Core barrel blocked @ 247.0'
							249	330	DOLOMITE; light brownish gray; pitted; micritic; fresh; very strong; very hard; w/fossils (ostracodes) dissolved to form pits; (Salina Group - Unit E). light gray @ 247.5-251.1'	
							250	329	claystone band; dolomitic; white; highly weathered; very weak; friable; hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 248.6-248.8'	
							251	328	stylolites begin @ 249.7' very closely spaced stylolites @ 250.5-250.6' highly fractured @ 250.7-250.9'	
			251.0				252	327	90°, J, N, chert, Pa, WA, SR @ 251.0-251.2' light gray @ 251.1-255.3'	
							253	326	0°, J, No, No, PI, SR @ 251.2' 40°, J, No, No, PI, SR @ 251.2-251.3' 20°, J, MW, anhydrite, Fi, PI @ 251.5' 20°, J, T, PI @ 252.5-252.6' 50°, J, T, PI @ 253.1-253.5'	
HQ	65	5.0	5.0	4.3	100	86	254	325		
							255	325	20°, J, No, No, PI, S @ 254.7'	

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# BORING LOG

BORING NO. RB-C1

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>ET for TB for</i> Grainger/Mass		CHECKED BY <i>ET for TB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							255		324			claystone band; dolomitic; light gray; slightly to moderately weathered; moderately strong; moderately hard @ 255.3-255.5'	Core box #13 starts @ 256.0'.
			256.0				256		323			DOLOMITE; brown to grayish brown; micritic; fresh; very strong; very hard; w/white to light gray; fresh; moderately strong; moderately hard; convoluted gypsum partings, bands, & beds; thickest bed about 0.3' @ 256.0'; (Salina Group - Unit E). 0°, B, Gy, Fi, Ir, SR @ 256.0'	
HQ	66	5.0	5.0	4.0	100	80	258		321			claystone band; dolomitic; white; ighly weathered; very weak; low hardness; properties comparable to 75% low plasticity, low toughness, rapid dilatancy soil fines; 25% fine sand; moist @ 256.7-256.9'	
							259		320			DOLOMITE; argillaceous; grayish brown & very dark gray, banded; micritic; fresh; very strong; very hard; w/shale partings & bands; (Salina Group - Unit E). claystone band; dolomitic; gray; moderately weathered; weak; moderately hard; properties comparable to low plasticity, low toughness, no dilatancy soil fines; moist @ 259.8-260.0'	
			261.0				261		318			DOLOMITE; argillaceous; greenish gray; micritic; fresh to slightly weathered; very strong; very hard; w/ white; micritic; fresh; moderately strong; moderately hard; gypsum partings; partings ~ 0.1"; thickest bed @ 263.1'; (Salina Group - Unit E). 0°, B, Cl, Fi, Pl, SR @ 261.4, 261.8'	Core box #14 starts @ 266.0'. Water level @ 18.9' prior to drilling on 07/26/07. Hole @ 266.0'.
HQ	67	5.0	5.0	4.6	100	92	263		316			DOLOMITE; grayish brown; micritic to very fine grained (crystalline); fresh; very strong; hard; w/white; micritic; fresh; moderately strong; moderately hard; anhydrite lenses; convoluted boundaries; possibly soft sediment deformation; (Salina Group - Unit E).	
							264		315			DOLOMITE; argillaceous; dark greenish gray w/thin partings of very dark grayish brown, banded; micritic; fresh; strong; very hard; w/few gypsum partings (about 0.1"); (Salina Group - Unit E). 20°, J, Cl, Pa, Pl, S @ 265.1', 265.2'	
			266.0				266		313			grades gray @ 266.2'	
HQ	68	5.0	4.4	3.7	88	74	267		312			claystone band; dolomitic; gray; moderately weathered; weak; moderately hard; properties comparable to medium plasticity, low toughness, no dilatancy soil fines; moist @ 266.3-266.5'	
							268		311			0°, B, Cl, Fi, Pl, S @ 266.7'	
							269		310			claystone band; dolomitic; white; highly weathered; very weak; low hardness; properties comparable to high plasticity, low toughness, slow dilatancy soil fines; moist @ 267.7-267.9'	
							270					DOLOMITE; grayish brown to dark grayish brown;	

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# BORING LOG

BORING NO. RB-C1

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 271.0 (feet)
SURFACE CONDITIONS Gravel Parking Lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/26/07

LOGGED BY <i>WCO for TBK</i> Grainger/Mass		CHECKED BY <i>EM for TBK</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								270		309		micritic; fresh; very strong; hard; w/convoluted gypsum partings & bands; thickness 0.1-1.2"; thickest bed @ 269.2'; (Salina Group - Unit E). argillaceous; very hard @ 268.5-268.9' highly fractured @ 270.6-270.7'	
								271		308			Bottom of boring @ 271.0'. Water level @ 19.7' @ completion of drilling. Backfilled w/ bentonite chips to 39' bgs on 08/15/07. Continued w/ bentonite chips to 1' bgs then gravel to surface on 08/22/07.
								272		307			
								273		306			
								274		305			
								275		304			
								276		303			
								277		302			
								278		301			
								279		300			
								280		299			
								281		298			
								282		297			
								283		296			
								284		295			
								285					



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C2

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1		1.0			1.0	0		579		BOULDERS with Cobbles and Sand - About 50% angular; spherical to elongated; very hard boulders; about 20% angular, elongate to spherical, very hard cobbles; about 20% fine to coarse, angular hard sand; gray; loose; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation. Vacuum refusal @ 1.5' on obstruction. Below 1.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1.	
							1		578				
							2		577				
							3		576				
							4		575				
			5.0				5		574				
							6		573				
S	2					2.0	7		572				
							8		571				
							9		570				
							10		569				
			10.0				10.5		569				
							11		568				
							12		567				
S	3					5.0	13		566				
							14		565				
							15		565				

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# BORING LOG

BORING NO. RB-C2

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>Grainger/Bonnie</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	4					1.4	15		564		Lean CLAY (CL) - About 88% LL=38, PL=18, slow dilatancy, high dry strength fines; about 12% fine to medium sand; dark grayish brown; firm to hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 4.0 TSF @ 17.0'.	
							16		563				
							17		562				
							18		561				
							19		560				
SPT	5	6	10	12	22	NR	20		559		Lean CLAY with Sand (CL) - About 81% LL=25, PL=13, no dilatancy, high dry strength fines; about 18% fine to coarse, rounded to subrounded, hard sand; about 1% gravel; dark gray; hard; moist; homogeneous; (Glacial Till).	20.3'	
							21		558				
							22		557				
							23		556		gravel layer @ 23.0' & 24.5'		
							24		555				
							25		554				
P	6					2.0	26		553		grades w/ cobbles		
							27		552				
							28		551				
							29		550				
							29.0		550			Tricone bit refusal @ 29.0' Below 29.0'	

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# BORING LOG

BORING NO. RB-C2

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING			LOGGED BY <i>Boyer</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>Boyer</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>Boyer</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	7					5.0	30		549			continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1.
HQ	1	1.0	0.0	0.0	0	0	34		545			Set nominal 6" temporary steel casing to 33.8'. Below 34.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 10.2' prior to drilling on 06/26/07..
HQ	2	2.5	0.8	0.0	32	0	35		544			Water level @ 13.2' prior to drilling on 07/16/07. Core box #1 starts @ 34.0'.
HQ	3	2.5	2.0	0.55	80	22	38		541		DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group). 30°, J, T, No, No, PI, R @ 38.5-38.6' 90°, J, VN, No, No, PI, R @ 38.6-38.7' 0°, J, VN, No, No, PI, R @ 38.6', 37.9'	
HQ	4	5.0	5.0	1.6	100	32	40		539		0°, J, VN, CI, Pa, PI, R @ 40.2', 40.7', 42.95' 90°, J, T, No, No, PI, SR @ 40.0-40.2', 40.7-41.2', 42.1-42.9'	
							41		538		50°, J, T, No, No, PI, SR @ 40.7-41.0', 43.6-43.8', 44.4-44.6'	
							42		537		0°, J, T, UK, Pa, PI, SR @ 41.2', 42.1' 60°, J, T, No, No, PI, SR @ 41.5-42.1' grades brownish gray @ 41.8' 90°, J, T, No, No, PI, SR @ 42.1-42.9' grades light brownish gray @ 42.2'	
							43		536		0°, J, T, UK, Pa, PI, SR @ 43.3' 50°, J, T, No, No, PI, SR @ 43.6-43.8'	
							44		535			
							45		535		0°, J, T, UK, Pa, PI, SR @ 44.4' 50°, J, T, No, No, PI, SR @ 44.4-44.6'	

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# BORING LOG

BORING NO. RB-C2

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>B. Grainger</i> Grainger/Bonnie TB	CHECKED BY <i>E. Dogbey</i> Dogbey/Bonnie TB	APPROVED BY <i>F. Meyer</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
													CORE SIZE
HQ	5	5.0	5.0	1.2	100	24	45		534		highly fragmented @ 44.6-45.0'	Water level @ 7.6' prior to drilling on 07/17/07.	
							46		533		highly fractured @ 45.2-46.0' DOLOMITE; gray & very dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group).		
							47		532		DOLOMITE; gray; micritic; fresh; strong; hard; w/ fossils; (Bass Islands Group). 30°, J, VN, No, No, WA, R @ 46.1-46.2', 46.4-46.5' 10°, J, VN, No, No, PI, R @ 46.7' 80°, J, VN, UK, Pa, SR @ 47.2-47.6', 46.7-46.8'		
							48		531		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossils; (Bass Islands Group). 0°, J, VN, No, No, PI, SR @ 48.1', 45.2'		
							49		530		0°, J, VN, CI, Pa, PI, SR @ 49.0'		
							50		529				Core box #2 starts @ 50.0'.
HQ	6	5.0	4.5	1.6	90	32	51		528		10°, J, T, No, No, PI, SR @ 50.7', 53.6' 0°, J, T, No, No, PI, SR @ 51.1', 51.4', 51.6', 52.1', 52.4'		
							52		527				
							53		526		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 52.7'		
							54		525		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 90°, J, VN, No, No, PI, SR @ 53.2-53.6' 0°, J, T, No, No, PI, SR @ 53.2', 54.7', 54.35' grades to w/stylolites @ 53.7'		
							55		524		0°, J, T, No, No, PI, SR @ 55.3' fragmented @ 55.5-56.1'		
							56		523		70°, J, T, No, No, PI, SR @ 56.1-56.15', 56.35-56.4' partially brecciated @ 56.5-57.0'		
HQ	7	5.0	5.0	2.6	100	52	57		522				
							58		521		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 58.6', 58.9', 59.25'		
							59		520		SHALE; dolomitic; dark gray; platy; fresh; moderately strong; moderately hard; (Bass Islands Group).		
							60						

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Em For Dogbey/Bonnie</i> TB	APPROVED BY <i>F. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	8	5.0	5.0	2.8	100	56	60		519		DOLOMITE; mottled light gray & very dark gray; (Bass Islands Group).		
							61		518		DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, Pl, SR @ 60.2', 62.2'		
							62		517		shale parting @ 62.05'		
HQ	9	2.3	2.2	0.4	95	17	63		516		BRECCIA; indurated; gray; coarse grained to micritic; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group). 30°, J, VN, No, No, Pl, R @ 62.6-62.7'		
							64		515		Claystone; soft @ 62.9-63.0' fragmented @ 63.0-63.2' shale parting (.1" thick) @ 63.3'		
HQ	10	1.0	1.0	0.0	100	0	65		514		BRECCIA; indurated; light gray; micritic; very coarse grained; laminar bedding; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group). 0°, J, T, No, No, Pl, SR @ 63.7', 64.35', 64.6', 64.85'	Core box #3 starts @ 64.8'.	
							66		513		coarser grained @ 64.5-65.0'		
HQ	11	1.7	0.1	0.0	5	0	67		512		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, VN, Ca, Pa, SR @ 65.4'		
							68		511		0°, J, VN, Cl, Pa, SR @ 65.2', 65.7', 65.9', 66.2', 66.4', 66.9'		
HQ	12	0.2	0.2	0.0	100	0	69		510		Claystone, soft @ 67.1-67.2' fragmented @ 67.3-67.5', 67.6-67.8'		
							70		509		light brownish gray @ 67.4-67.5' shale partings @ 67.8-68.6'	Water level @ 18.7' prior to drilling on 07/26/07.	
HQ	13	4.8	4.8	4.6	100	96	71		508		90°, J, T, No, No, Ir, R @ 67.9-68.3'		
							72		507		brecciated, healed (coarse grained to fine) @ 70.5-70.7'		
							73		506		grades light brownish gray @ 70.5'		
							74		505		30°, J, VN, Cl, Pa, WA, SR @ 70.5-70.6'		
							75		504		shale parting, wavy @ 70.5'		
											20°, J, VN, Cl, Pa, WA, SR @ 70.9-71.6'		
											grades to w/stylolites @ 71.5'		
											brecciated, healed (very coarse to fine grained) @ 71.9-72.4'		
											0°, J, T, No, No, Ir, R @ 72.0', 72.3'		
											some anhydrite filled vugs @ 74.5-75.0'		

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# BORING LOG

BORING NO. RB-C2

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Bob</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>Bob</i> Dobbey/Bonnie <sup>TB</sup>	APPROVED BY <i>Bob</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	14	5.0	5.0	4.7	100	94	75		504	30°, J, T, No, No, PI, SR @ 75.3'			
							76		503	breccia, healed; coarse to fine grained; dolomite clasts & matrix @ 75.7-75.9',			
							77		502	BRECCIA; healed; coarse to fine grained; dolomite clasts & matrix; (Bass Islands Group) 30°, J, VN, UK, Pa, WA, SR @ 76.3'			
							78		501	DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites (Bass Islands Group). breccia, healed; coarse to fine grained; dolomite clasts & matrix @ 77.1-77.5' 10°, J, VN, UK, Pa, PI, SR @ 77.2'			
							79		500	BRECCIA; healed; coarse to fine grained; dolomite clasts & matrix; (Bass Islands Group)			
							80		499	DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites (Bass Islands Group). 10°, J, VN, CI, Pa, PI, SR @ 79.2'		Core box #4 starts @ 80.0'	
							81		498	0°, J, T, CI, Sp, PI, SR @ 80.4'			
							82		497	20°, J, T, CI, Sp, PI, SR @ 80.7', 80.9'			
HQ	15	5.0	5.0	2.4	100	48	83		496	15°, J, N, CI, FI, WA, SR @ 81.5'		Discrete sample 4A taken from HQ15 @ 82.7-82.9'	
							84		495	0°, J, T, No, No, PI, SR @ 81.9', 82.1', 83.0', 84.9'			
							85		494	siltstone band; white; micritic to very fine grained; highly weathered; very weak; friable; properties comparable to (ML), 100% low plasticity, low toughness, slow dilatancy, soil fines; firm; strong reaction w/HCl @ 82.7-82.9' fractured @ 82.9-83.1'			
							86		493	60°, J, T, No, No, PI, SR @ 83.5-83.6', 83.6-83.7' 90°, J, T, No, No, PI, SR @ 83.5-83.6' 0°, J, VN, CI, Pa, WA, SR @ 83.9', 84.5' 10°, J, N, No, No, PI, R @ 84.1'			
							87		492	DOLOMITE; light brownish gray; micritic; fresh; strong; hard; 5% vuggy; (Bass Islands Group). 10°, J, VN, CI, Sp, PI, SR @ 85.1', 87.6' grades no vugs @ 85.1'			
							88		491	dolomite; brecciated, healed; fine to medium grained @ 85.3-85.4', 89.3-89.4'			
HQ	16	5.0	5.0	2.5	100	50	89		490	SHALE; very dark gray; fresh; moderately strong; moderately hard; (Bass Islands Group).			
							90		490	DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, VN, No, No, WA, SR @ 86.1', 86.3', 86.5', 87.8', 88.0' fractured @ 86.3-86.8' 90°, J, T, No, No, PI, SR @ 86.3-86.8' 20°, J, VN, CI, Sp, WA, SR @ 87.1'			

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# BORING LOG

BORING NO. RB-C2

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	17	5.0	5.0	4.1	100	82	90.0		489		0°, J, N, CI, FI, PI, SR @ 88.5' 10°, J, N, No, No, PI, SR @ 89.6' 30°, V, VN, CI, FI, PI, SR @ 90.2-90.3' siltstone band; very fine grained; white; highly weathered; very weak; friable; properties comparable to (ML) low plasticity, medium toughness, slow dilatancy soil fines; firm; @ 90.8-91.0' 0°, J, VN, CI, Pa, WA, R @ 91.6' 90°, J, T, No, No, PI, R @ 91.8-92.1' 60°, J, T, No, No, WA, R @ 91.8' siltstone band; very fine grained; light gray; highly weathered; very weak; friable; properties comparable to low plasticity, medium toughness, slow dilatancy soil fines; firm; @ 92.1-92.15' breccia; depositional; carbonate; grayish brown & very dark gray @ 92.5-92.8' 0°, J, T, No, No, PI, SR @ 94.0' grades w/stylolites @ 94.3'	Water level @ 21.8' prior to drilling on 07/27/07.
HQ	18	5.0	5.0	1.5	100	30	95.0		484		BRECCIA, poorly indurated SILTSTONE matrix; very fine grained; light gray; completely weathered; weak; friable; w/clasts of dolomite, light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	Core box #5 starts @ 94.0'.
HQ	19	5.0	5.0	4.2	100	84	100.0		479		0°, J, VN, CI, Sp, PI, SR @ 100.2' 90°, J, T, No, No, PI, SR @ 100.8-100.9', 101.2-101.4' 0°, J, VN, No, No, PI, SR @ 100.8', 100.9', 101.1', 101.2', 101.4' 20°, J, T, No, No, PI, SR @ 102.3-102.35' 0°, J, N, CI, FI, PI, SR @ 102.9' 10°, J, N, anhydrite, FI, PI, SR @ 103.95' 10°, J, N, CI, FI, PI, SR @ 104.0'	

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# BORING LOG

BORING NO. RB-C2

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Boyer</i> Grainger/Bonnie <sup>7B</sup>		CHECKED BY <i>Boyer</i> Dogbey/Bonnie <sup>7B</sup>	APPROVED BY <i>Boyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	20	5.0	5.0	2.9	100	58	105.0		474		dark gray shale & light gray anhydrite band @ 105.0-105.35'	Core box #6 starts @ 107.3'.	
									473		90°, J, T, CI, Sp, WA, SR @ 105.35-105.9'		
									472		0°, J, T, CI, Sp, PI, SR @ 105.5', 106.2'		
									471		40°, J, T, No, No, PI, SR @ 106.4-106.5'		
									470		siltstone band; light gray; very fine grained; highly weathered; very weak; friable; @ 107.1-107.2'		
									469		0°, J, T, UK, Pa, PI, SR @ 107.1', 107.2', 107.3', 107.4'		
									468		0°, J, T, No, No, PI, SR @ 108.0', 109.3'		
									467		10°, J, VN, CI, Sp, PI, SR @ 109.6'		
									466		grades w/2% vugs @ 111.4'		
									465		grades w/5% vugs @ 112.6'		
									464		grades w/2% vugs @ 113.0'		
									463		grades w/no vugs @ 113.6'		
									462		shale parting @ 113.7'		
									461		0°, J, VN, No, No, WA, SR @ 114.1'		
									460		0°, J, VN, CI, Sp, PI, R @ 114.3'		
HQ	22	5.0	5.0	3.4	100	68	115.0		464		10°, J, VN, No, No, Ir, R @ 116.5'		
									461		DOLOMITE; light gray; micritic; highly weathered; weak; friable; (Bass Islands Group).		
									460		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group).	Discrete sample 6A taken from HQ22 @ 118.6-118.95'.	
									460		CLAYSTONE; gray; highly weathered; weak; friable; (Salina Group - Unit F).	Core box #7 starts @ 119.3'.	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C2

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Bonnie TB</i> Grainger/Bonnie TB		CHECKED BY <i>Bonnie TB</i> Dogbey/Bonnie TB		APPROVED BY <i>Meyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
HQ	23	5.0	4.8	1.1	96	22	120.0		120	459		<p>CLAYSTONE; dark gray; fresh; strong; hard; (Salina Group - Unit F). grades very dark gray @ 119.8' 90°, J, T, No, No, PI, SR @ 120.4-121.4', 121.7-122.5'</p> <p>grades interbedded dolomite; dark gray @ 120.4' 0°, J, T, No, No, PI, SR @ 120.8', 120.9', 120.4', 121.0', 121.05', 121.15', 121.3', 121.4', 121.7', 121.9', 122.05', 122.1', 122.2', 122.3', 122.5', 123.0', 123.2', 123.7'</p> <p>grades not interbedded @ 121.8' grades interbedded w/dolomite @ 122.5' highly weathered; weak; friable @ 122.6-122.7'</p>	
									121	458			
									122	457			
									123	456			
									124	455			
									125	454			
HQ	24	5.0	4.1	0.7	82	14	125.0		126	453		<p>DOLOMITE; argillaceous; very dark grayish brown; micritic; fresh, strong; hard; w/anhydrite bedding; (Salina Group - Unit F).</p> <p>claystone band; highly fractured; very dark gray; moderately weathered (no discoloration); moderately strong; hard @ 124.4-124.6'</p>	
									127	452		<p>60°, J, T, No, No, PI, SR @ 125.8-125.9' 0°, J, VN, No, No, PI, SR @ 126.0', 126.3', 127.0', 128.4' 0°, J, VN, Ca, Pa, PI, SR @ 126.0' highly fractured @ 126.4-126.6' 90°, J, VN, No, No, PI, SR @ 126.4-127.2'</p>	
									128	451			
									129	450		<p>10°, J, T, No, No, PI, SR @ 128.3'</p> <p>DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, T, No, No, Ir, SR @ 128.7-129.3'</p>	
									130	449			
									131	448			
HQ	25	4.2	3.7	0.0	88	0	130.0		132	447	<p>LIMESTONE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). highly weathered @ 130.1-130.9'</p> <p>0°, J, VN, No, No, Ir, R @ 131.3' 0°, J, VN, No, No, PI, SR @ 131.7', 132.0', 132.7', 132.8' moderately weathered (no discoloration); fractured @ 132.0-132.4' 90°, J, VN, No, No, PI, SR @ 132.5-132.7'</p>		
									133	446			
									134	445	<p>highly weathered @ 133.2' 90°, J, VN, No, No, PI, SR @ 133.3-133.5', 133.6-133.7'</p>		
HQ	26	0.8	0.3	0.0	37	0	134.2		135	445	<p>CLAYSTONE; gray; fresh; weak; moderately hard;</p>		

Core box #8 starts @ 131.9'

Water level @ 21.5' prior to drilling on

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# BORING LOG

BORING NO. RB-C2

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>B. Granger/Bonnie</i> TB	CHECKED BY <i>B. Dogbey/Bonnie</i> TB	APPROVED BY <i>M. Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	27	5.0	4.5	1.6	90	32	135.0		444		(Salina Group - Unit F).	07/28/07.
							136		443			
							137		442		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							138		441		CLAYSTONE; calcareous; gray; fresh; strong; hard; (Salina Group - Unit F).	
							139		440		grades gray @ 139.3'	
							140		439		LIMESTONE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). anhydrite nodules @ 139.6-139.8' 90°, J, VN, Ca, Pa, PI, SR @ 139.8-140.0'	
HQ	28	5.0	2.4	0.0	48	0	140.0		438		DOLOMITE; light brownish gray; slightly weathered (no discoloration); strong; hard; (Salina Group - Unit F). 0°, J, VN, UK, Fi, PI, SR @ 141.9' fractured @ 142.0-142.3'	
							141		437			
							142		436		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, T, No, No, PI, SR @ 143.1-143.5' 0°, J, T, No, No, PI, SR @ 143.1', 143.3', 143.5', 143.55', 143.7' fractured @ 143.7-144.0'	
							143		435		30°, J, VN, UK, Pa, Ir, R @ 144.2-144.3' 0°, J, VN, UK, Pa, PI, SR @ 144.15', 144.3'	
							144		434			
HQ	29	2.5	2.2	0.0	88	0	145.0		433		CLAYSTONE; bluish gray; slightly weathered (no discoloration); moderately strong; moderately hard; w/dolomite & limestone interbedding; (Salina Group - Unit F). fractured @ 144.8-145.0' dolomite band; gray; @ 146.0-146.2' fractured @ 146.0-146.2', 146.4-146.6' dolomite; gray; @ 146.4-146.8' 40°, J, T, No, No, PI, SR @ 146.4-146.5' 90°, J, T, No, No, PI, SR @ 146.5-146.7' 10°, J, T, No, No, PI, SR @ 146.35-146.4' 20°, J, T, No, No, PI, S @ 146.8' 20°, J, T, No, No, PI, SR @ 147.9'	
							146		432			
							147		431			
HQ	30	2.5	2.5	1.2	100	48	147.5		430			Sample 8A taken from HQ30 @ 148.1-149.15'
							148		429			
							149		428			
							150		427			

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**BORING LOG**

BORING NO. RB-C2

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet) 579.3 ft (NAVD 88)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>B. Grainger</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>S. Dogbey</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>E. Meyer</i> Meyer
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	31	5.0	3.5	1.7	70	34	150		429			
							151		428			
							152		427			
							153		426			
							154		425			
							155		424			
							156		423			
HQ	32	5.0	2.0	0.9	40	18	155.0		422			
							157		422			
							158		421			
							159		420			
							160		419			
HQ	33	2.5	1.8	1.0	72	40	160.0		418			
							161		418			
							162		417			
							162.0		417			
							162.2		417			
							162.5		416			
HQ	34	2.5	2.2	0.9	80	36	162.5		416			
							163		416			
							164		415			
							165		415			

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# BORING LOG

BORING NO. RB-C2

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>B. P. Grainger/Bonnie</i> <sup>773</sup>	CHECKED BY <i>B. P. Dogbey/Bonnie</i> <sup>773</sup>	APPROVED BY <i>B. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	35	5.0	2.2	0.0	44	0	165.0		165	414		60°, J, VN, CI, Pa, PI, SR @ 164.8-164.85' dolomite @ 164.8-164.9' grades highly weathered @ 165.0'	Water level @ 19.6' prior to drilling on 07/29/07.
HQ	36	2.5	0.6	0.0	24	0	170.0		166	413			
HQ	37	2.5	0.5	0.0	20	0	172.5		167	412		DOLomite; (Salina Group - Unit F). 90°, J, T, No, No, PI, SR @ 167.0-167.4' 30°, J, T, No, No, PI, SR @ 167.1-167.3' fractured @ 167.1-167.4' 60°, J, T, No, No, PI, SR @ 167.5-167.8'	
HQ	38	1.0	0.0	0.0	0	0	175.0		168	411		CLAYSTONE; bluish gray; slightly weathered; moderately strong; moderately hard; w/dolomite & limestone interbedding; (Salina Group - Unit F).	
HQ	39	1.5	0.0	0.0	0	0	176.0		169	410			
HQ	40	2.5	2.4	1.3	96	52	177.5		170	409		dolomite @ 173.1-173.4' fractured @ 173.1-173.4'	
									171	408		BRECCIA; poorly indurated; claystone; calcareous; bluish gray; fresh; weak; low hardness; w/clasts of dolomite; (Salina Group - Unit F).	Core box #10 starts @ 175.0'.
									172	407			Runs 38 & 39 - possibly soft material washing out during drilling.
									173	406		dolomite band @ 177.5-177.9' grades non-calcareous claystone @ 177.9'	
									174	405			Sample 10A taken from HQ40 @ 179.05-179.3'.
									175	404			
									176	403			
									177	402			
									178	401			
									179	400			
									180	400			

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# BORING LOG

BORING NO. RB-C2

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	41	2.5	2.4	0.0	96	0	180		399		BRECCIA; indurated; limestone matrix; grayish brown; micritic; fresh; moderately strong; moderately hard; w/dolomite clasts; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 0° J,T,No,No,PI,SR @ 180.5', 180.9', 181.1' 30° J,T,No,No,PI,SR @ 180.6-180.7' 10° J,T,No,No,PI,SR @ 181.2', 181.3', 181.7', 181.9', 182.0'		
HQ	42	2.5	2.5	0.5	100	20	182.5		396		0° J,VN,No,No,PI,R @ 182.65', 184.2' 10° J,VN,No,No,PI,SR @ 182.7', 183.8', 184.7' 30° J,VN,No,No,WA,SR @ 183.1', 183.35'	Discrete sample 10B taken from HQ42 @ 184.2-184.7'	
							185.0		394		0° J,VN,No,No,PI,SR @ 185.5', 186.1', 186.4'		
HQ	43	5.0	4.7	2.3	94	46	186.0		393		CLAYSTONE; gray; slightly weathered; moderately strong; medium hard; w/carbonate bands; (Salina Group - Unit F).  fractured @ 187.9-188.2'  10° J,VN,No,No,PI,SR @ 188.5', 188.6' 60° J,VN,No,No,PI,SR @ 188.5-188.7'		
HQ	44	5.0	4.5	2.7	90	54	190.0		389		LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  DOLOMITE; light brownish gray; w/interbedded limestone; 10° bedding; (Salina Group - Unit F).  LIMESTONE; bluish gray; micritic; fresh; strong; hard; 15% vugs; (Salina Group - Unit F). 0° J,VN,No,No,PI,SR @ 192.8', 193.15', 193.8', 193.9' grades 10% vugs @ 193.5'  DOLOMITE; light brownish gray w/interbedded limestone; 10° bedding; (Salina Group - Unit F).	Core box #11 starts @ 192.7'	

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# BORING LOG

BORING NO. RB-C2

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> <sup>TB</sup>	CHECKED BY <i>Dogbey/Bonnie</i> <sup>TB</sup>	APPROVED BY <i>Meyer</i> <sup>EM</sup>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	45	5.0	4.0	2.25	80	45	195.0		384	LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 20° J,VN,No,No,PI,SR @ 194.7'			
							196.0		383	DOLOMITE; interbedded; (Salina Group - Unit F). LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			
							197.0		382	dolomite band; brown; moderately strong; moderately hard; @ 197.3-197.45' 40° J,VN,UK,Pa,PI,SR @ 197.45-197.55', 197.5-197.6'			
							198.0		381	30° J,VN,UK,Pa,PI,SR @ 197.6-197.75' dolomite band; grayish brown; moderately strong; moderately hard; @ 197.7-197.9'			
							199.0		380	dolomite; light grayish brown; strong; hard; @ 197.95-198.2'			
							200.0		379	10° J,T,UK,Fi,PI,SR @ 198.2', 198.3', 198.4' dolomite; strong; hard; @ 198.4-198.8'			
							201.0		378	70° J,N,UK,Pa,PI,SR @ 198.4-198.7' dolomite; gray; micritic; fresh; strong; hard; @ 198.9-199.3'			
							202.0		377	claystone band; dark bluish gray; micritic; fresh; weak; low hardness; 10° bedding; @ 199.3-199.4'			
HQ	46	5.0	4.8	2.2	96	44	200.0		377	DOLOMITE; interbedded; moderately strong; moderately hard; (Salina Group - Unit F).			
							203.0		376	LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60° J,N,No,No,PI,SR @ 202.3-203.5'			
							204.0		375	BRECCIA; indurated; claystone; calcareous; gray; fresh; moderately strong; low hardness; w/clasts of light grayish brown; micritic; slightly weathered; strong; moderately hard; dolomite; (Salina Group - Unit F).			
							205.0		374	highly weathered @ 202.5-203.5' 60° J,VN,No,No,PI,SR @ 204.0-204.15' 30° J,VN,No,No,PI,SR @ 204.7-204.8', 204.8-204.9'			
							206.0		373	LIMESTONE; dark grayish brown; vuggy; micritic; strong to very strong; hard; 15% vugs, some connected, some filled w/claystone; grayish brown; (Salina Group - Unit F).			
							207.0		372	0° J,T,No,No,PI,SR @ 205.5', 206.0' 20° J,T,No,No,PI,SR @ 206.9' 10° J,T,No,No,PI,SR @ 207.0' 0° J,T,No,No,PI,SR @ 207.5', 207.6'			
HQ	47	5.0	4.5	2.5	90	50	205.0		372				
							208.0		371	0° J,T,No,No,PI,SR @ 208.2'			
							209.0		370	10° J,VN,Ca,Pa,PI,SR @ 209.2'			
							210.0		370	DOLOMITE; shale; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).			

Core box #12 starts @ 206.3'.



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# BORING LOG

BORING NO. RB-C2

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>Bo</i> Grainger/Bonnie TB	CHECKED BY <i>Bo</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	48	5.0	5.0	1.9	100	38	210.0		369		highly weathered; weak; low hardness @ 209.7-209.8' 80° J, T, No, No, PI, SR @ 210.05-210.3'	
							211		368		highly weathered; weak; low hardness @ 210.6-210.7'	
							212		367		shale parting @ 210.75' highly weathered; extremely weak; low hardness @ 211.4-211.9'	
							213		366		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							214		365		DOLOMITE; dark gray; micritic; weak; low hardness; (Salina Group - Unit F).	
							215		364		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
HQ	49	5.0	4.0	1.3	80	26	215.0		363		LIMESTONE; gray; micritic; fresh; strong to very strong; hard; (Salina Group - Unit F). fragmented @ 213.8-214.0' 10° J, T, No, No, PI, SR @ 214.0'	
							216		362		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F). 90° J, VN, Ca, Pa, PI, SR @ 214.1-214.3', 214.5-214.9', 216.1-216.3', 216.4-216.5', 216.5-217.3'	
							217		361		10° J, VN, Ca, Pa, PI, SR @ 214.6' limestone band; dark grayish brown; micritic; fresh; strong; hard @ 216.4-216.5'	
							218		360		0° J, T, No, No, PI, SR @ 216.6', 216.7', 216.9', 217.2', 218.2', 217.85', 217.95'	
							219		359		LIMESTONE; dark grayish brown; micritic; fresh; strong hard; (Salina Group - Unit F).	
							220		358		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F). 0° J, T, No, No, PI, SR @ 218.7' grades dark gray @ 218.9'	Core box #13 starts @ 220.0'.
							221		357		LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; 5% vugs; (Salina Group - Unit F). 0° J, T, No, No, PI, SR @ 220.3'	
							222		356		80° J, T, No, No, PI, SR @ 220.4-220.6' 50° J, T, No, No, PI, SR @ 220.5-220.65'	
HQ	50	5.0	4.2	1.9	84	38	220.0		355		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). grades light grayish brown @ 221.3' claystone band @ 221.5-221.7'	
							223		354		LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							224		353		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							225		352		0° J, T, No, No, PI, SR @ 224.0', 224.5', 224.8'	

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# BORING LOG

BORING NO. RB-C2

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	51	5.0	2.7	1.0	54	20	225.0		354		fossils @ 224.0-224.3'		
									353		0°, J, T, No, No, PI, SR @ 225.35', 225.6', 225.65'		
									352		10°, J, T, No, No, PI, SR @ 226.05'		
									351		CLAYSTONE; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).		
									350		DOLOMITE; grayish brown; fresh; strong; hard; (Salina Group - Unit F).		
									349		CLAYSTONE; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).		
HQ	52	5.0	2.0	0.0	40	0.0	230.0		348		grades very weak to extremely weak; w/properties comparable to medium plasticity, medium toughness, no dilatancy soil fines; soft to firm; moist		
									347		grades slightly weathered; comparable soil properties no longer apply @ 231.0'		
									346				
									345		dolomite band; dark gray @ 234.0-234.2'		
									344				
HQ	53	2.5	3.5	1.1	100	44	235.0		343		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
									342		70°, J, VN, CI, Pa, PI, SR @ 236.5-236.7'	236.0' - 0.9 PPM, PID reading, reading in bagged sample	
									341		0°, J, VN, No, No, PI, SR @ 236.7'		
									340		CLAYSTONE; gray; micritic; slightly to highly weathered (no discoloration); weak to extremely weak; low hardness to soft; (Salina Group - Unit F).		
HQ	54	2.5	2.0	0.4	80	16	237.5		339		dolomite band; dark gray; fragmented @ 238.2-238.4'	Core box #14 starts @ 238.3'.	
									338		grades slightly to moderately weathered (no discoloration); weak; low to moderately hard @ 239.0'		
									337				
									336				
									335				
									334				
									333				
									332				
									331				
									330				
									329				
									328				
									327				
									326				
									325				
									324				

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# BORING LOG

BORING NO. RB-C2

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>Granger/Bonnie</i> <sup>TB</sup>		CHECKED BY <i>Dogbey/Bonnie</i> <sup>TB</sup>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	55	5.0	4.5	2.75	90	55	240.0		240.0			Discrete jar sample 14A taken from HQ55 @ 240.0-240.1'	
							241.0		241.0			DOLOMITE; brownish gray; micritic; fresh; strong; hard; w/limestone; (Salina Group - Unit F). 0°,J,VN,UK,PI,SR @ 240.8' shale parting @ 241.05'	
							241.4		241.4			DOLOMITE; gray; fresh; strong; hard; (Salina Group - Unit F). 15°,J,T,No,No,PI,SR @ 241.7'	
							241.7		241.7			DOLOMITE; pale brown; micritic; fresh; strong; hard; fossiliferous; (Salina Group - Unit E). highly fragmented @ 241.7-242.1' w/stylolite and fossil voids @ 242.1-242.9' 0°,J,T,No,No,PI,SR @ 242.2', 243.15', 244.0' fossil pits @ 244.1-244.3' 40°,J,T,No,No,Ir,SR @ 244.35-244.55'	
							245.0		245.0			fossil pits @ 245.4-246.4'	
HQ	56	5.0	4.6	3.4	92	68	245.0		247.0			fragmented @ 246.6-246.8' fossil pits @ 247.0-248.8' 0°,J,T,No,No,PI,R @ 247.1', 247.2', 247.4', 248.6'	
							248.9		248.9			claystone band; white; micritic; highly weathered; soft; very weak @ 248.9-249.0'	
							250.0		250.0			40°,J,T,No,No,PI,SR @ 250.0-250.1' 0°,J,VN,CI,Pa,PI,SR @ 250.1', 251.0', 251.4', 251.5' fragmented @ 250.1-250.25' shale partings @ 251.6', 251.7' fossil pits @ 251.0-251.5'	
HQ	57	5.0	4.5	3.65	90	73	250.0		251.5			Core box #15 starts @ 251.51'	
							254.7		254.7			40°,J,T,No,No,PI,S @ 254.7-254.9'	

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# BORING LOG

BORING NO. RB-C2

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	58	5.0	4.2	1.4	84	28	255.0		324		vuggy dolomite (5% vugs) @ 255.0-255.3'	
							256		323		CLAYSTONE; gray; micritic; highly to slightly weathered; weak; low hardness; (Salina Group - Unit E).	
							257		322		DOLOMITE; gray; micritic; highly weathered to fresh; weak to strong; low hardness to hard; (Salina Group - Unit E). shale parting @ 256.2'	
							258		321		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E). fractured @ 256.4-257.0' 0°, J, VN, shale, Fi, PI, SR @ 256.9'	
							259		320		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E). 30°, J, VN, CI, Fi, WA, S @ 257.25-257.35' 0°, J, VN, CI, Fi, PI, SR @ 257.4', 257.55', 258.1', 258.2'	
HQ	59	5.0	5.0	4.9	100	98	260.0		319		DOLOMITE; gray to grayish brown; micritic; fresh; strong; hard; w/gypsum partings and bands; (Salina Group - Unit E). 0°, J, VN, CI, Fi, PI, SR @ 258.4', 259.0' shale parting @ 259.9' gypsum nodules @ 258.9-259.1', 260.8-261.1', 262.85-263.1', 264.0' gypsum partings @ 259.1-259.8' gypsum parting (0.2") @ 260.05' gypsum parting (0.05") @ 260.15' gypsum parting (0.1") @ 260.2' gypsum parting (0.15") @ 260.4' gypsum parting (0.2") @ 260.55' gypsum partings @ 260.6-262.0' grades grayish brown @ 262.5' convoluted gypsum beds & nodules w/shale partings @ 262.0-262.7 grades light grayish brown @ 263.4' grades grayish brown @ 263.9' gypsum nodules w/shale parting @ 264.25' grades w/shale partings @ 264.5'	
							261		318			
							262		317			
							263		316			
							264		315			
							265		314			Core box #16 starts @ 264.7'.
							266		313		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, Ir, SR @ 265.7' shale parting (0.2"-0.25") @ 265.95' shale parting @ 266.08'	
							267		312		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/gypsum nodules & parting; (Salina Group - Unit E). gypsum parting @ 267.1-267.5' gypsum nodules @ 267.0-267.1' gypsum parting (0.1-0.2") @ 267.2' grades grayish brown @ 267.5' grades w/shale parting @ 267.5' gypsum nodules & bands, convoluted @ 268.1-268.7' gypsum parting @ 268.7-269.2'	
HQ	60	5.0	4.7	4.3	94	86	265.0		312			
							268		311			
							269		310			
							270		310			

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# BORING LOG

BORING NO. RB-C2

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.0 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/30/07

LOGGED BY <i>SB for</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>PK for</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								LOGGED BY	CHECKED BY	APPROVED BY	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
								270		309		gypsum nodules & partings @ 269.2-270.0'	Bottom of boring @ 270.0'. Water level @ 19.9' @ completion of drilling. Boring caved @ 176.7'. Cleared cavein. Caved to 259.1' Backfilled from 259.1 w/ bentonite chips to 62' bgs on 09/06/07. Continued w/bentonite chips to 35' bgs on 09/07/07. Continued w/ bentonite chips to 5' bgs then gravel to surface on 09/12/07.
								271		308			
								272		307			
								273		306			
								274		305			
								275		304			
								276		303			
								277		302			
								278		301			
								279		300			
								280		299			
								281		298			
								282		297			
								283		296			
								284		295			
								285					



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# BORING LOG

BORING NO. RB-C3

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>GRAINGER</i> Grainger/Bonnie/Mass	CHECKED BY <i>DOGBEY</i> Dogbey/Mass	APPROVED BY <i>MEYER</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0					
								1		580			
								2		579			
								3		578			
								4	S	577			
	1		3.7					5		576			
								6		575			
			5.0					7		574			
								8	S	573			
	2					NR		9		572			
								10		571			
								11		570			
								12		569			
								13	S	568			
	3					3.0		14		567			
								15		566			

**COBBLES** - About 60% angular, flat to cubical, hard cobbles w/max. size 10"; about 20% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).

Below 3.7' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1 collected from S-1. Discrete sample S2 collected from S-2.

**Fat CLAY (CH)** - About 95% high plasticity, high toughness, no dilatancy high dry strength fines; about 5% fine sand; gray & dark reddish brown; soft; moist; weak reaction w/HCl; laminated; (Lacustrine Deposit).

Discrete sample S3 collected @





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# BORING LOG

BORING NO. RB-C3

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	4	3	15.0	5	8	1.3	15		565			14.4-14.6'. Set nominal 6" temporary steel casing to 14.5'. Below 15.0' continue w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Split SPT-4 into two jars, A & B.
TW	5					2.0	16		564		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; about 15% fine to medium sand; dark grayish brown & light gray; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	TW-5: bottom 6" of tube bent.
							17		563			
							18		562			
							19		561			
							20		560			
							21		559			
							22		558			
							23		557		Lean CLAY with Sand (CL) - About 85% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subrounded, hard sand; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	
							24		556			
							25		555			
SPT	6	9	18	30	48	1.5	26		554			
							27		553			
CA	7					1.6	28		552			
			29.0				29		551		grades w/gabbro gravel, rounded @ 29.0'	Tricone bit refusal @ 30.0'. Caved to 29.0'
							30		551			

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# BORING LOG

BORING NO. RB-C3

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>TB for Grainger/Bonnie/Mass</i>		CHECKED BY <i>8-22 TB for Dogbey/Mass</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	8					4.5	30.0		550		DOLOMITE; dark gray; micritic (crystalline); fresh; very strong; very hard; w/stylolites; (Bass Islands Group).	(caved material contains gabbro gravel). Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	
S	9		33.5			2.0	34.0		546			Set nominal 6" temporary steel casing to 33.5'. Water level @ 12.2' prior to drilling on 06/26/07.	
HQ	1	3.0	3.0	0.4	100	13	35.5		545		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; very hard; w/few shale partings and stylolites; partings 0.1" thick; (Bass Islands Group). highly fractured @ 35.5-35.9'	Sonic cores S-8 & S-9 stored in box labeled S1. Set nominal 6" temporary steel casing to 35.5'. Below 35.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 15.8' prior to drilling on 07/28/07.	
							37.0		544		80°, J, No, No, Ir, SR @ 36.0-36.7'		
							37.2		543		shale partings - 0°, B, PI, SR @ 36.2', 36.5', 36.8', 37.0', 37.2', 37.5', 38.1'		
							37.5		543		90°, J, No, No, PI, SR @ 37.0-37.3'		
							37.8		543		80°, J, No, No, PI, SR @ 37.3-37.8'		
							38.1		543		10°, J, Cl, PI, SR @ 37.3'		
							38.5		542		vuggy @ 37.9-38.1'		
							39.0		542		90°, J, Ca, Pa, WA, SR @ 38.2-38.8'		
							39.4		541		80°, J, Ca, Pa, PI, SR @ 38.5-39.0'		
							39.9		541		80°, J, Ca, Pa, PI, SR @ 39.1-39.4'		
							40.0		541		90°, J, Ca, Pa, PI, SR @ 39.4-39.6'		
							40.6		540		very closely spaced stylolites @ 39.6-39.7'		
							40.9		540		90°, J, T, Ca, Pa, PI @ 39.7-40.1'		
HQ	2	5.0	5.0	1.8	100	36	39.8		540		DOLOMITE; argillaceous; light brownish gray, banded; micritic to very fine grained; fresh; very strong; hard; (Bass Islands Group).	Core box #1 starts @ 35.5'.	
							41.8		539		80°, J, Ca, Pa, PI, SR @ 40.5-40.9'		
							42.8		538		highly fractured @ 40.9-41.8'		
							43.0		538		DOLOMITE; argillaceous; grayish brown & gray, banded; micritic to very fine grained; fresh; very strong; hard; w/zones of very closely spaced stylolites; (Bass Islands Group).		
							43.2		538		90°, J, Ca, Pa, PI, SR @ 41.5-42.2'		
							43.8		537		90°, J, No, No, PI, SR @ 42.6-42.8'		
							44.5		537		0°, B, No, No, PI, SR @ 42.8', 42.9', 43.2', 43.3', 43.4'		
							44.8		536		light gray; pitted/vuggy; pits/vugs 0.04-0.4"; vugs filled w/anhydrite and calcite @ 43.8-44.5'		
							45.0		536		0°, J, No, No, PI, SR @ 44.4', 44.5'		
							45.5		536		brecciated (healed) @ 44.5-44.8'		

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# BORING LOG

BORING NO. RB-C3

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>TC for</i> Grainger/Bonnie/Mass	CHECKED BY <i>TC for</i> Dogbey/Mass	APPROVED BY <i>TC for</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	3	5.2	5.2	2.5	100	48	45		535		20°, J, No, No, PI, SR @ 44.8' highly fractured @ 45.2-45.4'	
							46		534		DOLOMITE; gray, mottled; pitted/vuggy; micritic; slightly weathered; very strong; very hard; pits/vugs 0.2-0.4"; vugs filled w/calcite & anhydrite; (Bass Islands Group). 60°, J, No, No, St, R @ 46.4-46.5'	
							47		533		DOLOMITE; argillaceous; dark grayish brown & dark gray, banded; pitted/vuggy; micritic; fresh to slightly weathered; very strong; very hard; pits/vugs 0.04-0.4"; vugs occur in beds; w/black; very fine grained; fresh; strong; hard; shale partings and stylolites; thickest parting (0.1") @ 47.7"; (Bass Islands Group). highly fractured @ 46.8-47.0', 47.3-47.4'	
							48		532		shale partings - 0°, B, PI, St, SR @ 47.2', 47.7', 48.5', 48.9'	Core box #2 starts @ 48.5'.
							49		531		70°, J, T, Ir @ 48.2-48.9'	
							50		530		100°, J, anhydrite, Pa, PI, SR @ 48.7-49.1'	
							51		529		highly fractured @ 49.1-49.4', 50.1-50.6'	
							52		528		40°, J, Ca, Pa, PI, Slk @ 49.3-49.4'	
							53		527		30°, J, Cl, Pa, PI, SR @ 49.9-50.0'	
							54		526		shale; black; platy; very fine grained; fresh; strong; hard @ 50.1-50.2'	
							55		525		brecciated (not healed) @ 50.1-50.9'	
							56		524		0.8" vug @ 51.1-51.2'	
							57		523		0°, J, No, No, PI, SR @ 51.8-52.7'	
							58		522		few vugs @ 52.0'	
							59		521		20°, J, No, No, PI, SR @ 53.3', 55.6'	
							60				DOLOMITE; light brownish gray; micritic to very fine grained; fresh; strong; hard; w/few vugs (about 0.4-0.8") & very closely spaced stylolites; (possibly oolitic); (Bass Islands Group). 0°, J, No, No, PI, SR @ 54.7', 54.9'	
											highly fractured @ 55.1-55.3', 56.2-56.4'	
											60°, J, No, No, PI, SR @ 56.0-56.2'	
											brecciated (healed) @ 56.2-57.0'	
											DOLOMITE; argillaceous; grayish brown & very dark grayish brown, banded; pitted/vuggy; micritic; fresh to slightly weathered; very strong; very hard; w/stylolites; (Bass Islands Group). 50°, J, No, No, Ir, SR @ 57.3-57.4'	
											70°, J, No, No, PI, SR @ 57.7-57.8'	
											70°, J, No, No, PI, SR @ 58.0-58.3'	
											0°, B, T, PI, SR @ 58.2-58.3'	
											highly fractured @ 58.4-58.5', 58.9-59.0'	
											90°, J, No, No, PI, SR @ 58.5-58.9'	
											80°, J, No, No, PI, SR @ 58.5-58.9'	
											shale band; very dark gray; platy; very fine grained;	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>Granger/Bonnie/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	6	5.0	5.0	3.6	100	72	60		520		fresh; strong; hard @ 59.0-59.2'	Core box #3 starts @ 61.5'	
							61		519		dolomite & shale; dolomitic; white & gray, mottled; micritic to very fine grained; fresh; very strong; very hard @ 59.2-59.4'		
							62		518		DOLOMITE; oolitic; light brownish gray; medium to coarse grained (crystalline); fresh; very strong; very hard; oolites 0.02-0.04"; (Bass Islands Group). 10°,B/J,No,No,PI,SR @ 60.5'		
							63		517		DOLOMITE & SHALE; dolomitic; white & gray, mottled; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group). highly fractured @ 63.0-63.4'		
			64.0				64		516		shale; very dark gray; fissile; very fine grained; fresh; strong; hard @ 63.3-63.5'		
							65		515		DOLOMITE; light gray, gray, & dark gray, banded; micritic; fresh; very strong; very hard; w/convoluted, wavy shale partings & bands, & stylolites; thickest shale band (0.4") @ 65.6"; (Bass Islands Group). shale parting - 10°,B,PI,SR @ 63.7'		
HQ	7	5.0	4.9	4.4	98	88	66		514		DOLOMITE; light gray, gray, & greenish gray, banded; micritic; fresh; very strong; very hard; w/horizontal bands; (Bass Islands Group).		
							67		513		0°,B,Cl/Ca,Fi,PI,S @ 67.4', 67.8', 68.0', 68.2'		
							68		512				
			69.0				69		511		highly fractured @ 69.4-69.5', 70.2-70.4'		
							70		510		shale parting - 10°,B,PI,SR @ 69.6'		
HQ	8	5.0	5.0	3.2	100	64	71		509		DOLOMITE; brecciated (healed); light brownish gray; vuggy; micritic; slightly weathered; very strong; hard; w/very dark gray; fresh; moderately strong; hard; convoluted lenses, partings & bands of shale; brecciated (healed) fragments subangular to subrounded, up to 6" diameter; vugs spherical to elongate, 0.04-0.4"; few filled w/anhydrite; (Bass Islands Group).		
							72		508		brecciated, healed w/shale & dolomite @ 70.5-72.5'		
							73		507		highly fractured @ 73.3-73.4', 73.8-74.0'		
							74		506		30°,J,Cl,Pa,Ir,R @ 73.3-73.4'		
			74.0				74		506		30°,J,No,No,PI,R @ 73.5-73.6'		
							75		506		50°,J,Cl,Pa,PI,SR @ 74.0-74.1'		
							75		506		120°,J,Cl,Pa,PI,SR @ 74.0-74.1'		

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	9	5.0	5.0	4.9	100	98	75		505		0°, J, T, No, No, Ir, R @ 75.7'	Core box #4 starts @ 75.7'	
							76		504		0°, J, No, No, Ir, R @ 76.2'	Partial loss of drilling fluid @ 76.5'	
							77		503				
							78		502				
							79		501				
							80		500				
HQ	10	5.0	5.0	5.0	100	100	81		499		closely spaced stylolites @ 80.7'		
							82		498				
							83		497				
							84		496		DOLOMITE; gray & light brownish gray, banded; very fine grained (crystalline); fresh; very strong; hard; w/ stylolites; (Bass Islands Group).		
							85		495		0°, J, Cl, Fi, PI, SR @ 84.5'		
							86		494		20°, J, Cl, Fi, PI, SR @ 84.5-84.6'		
							87		493		lean clay band - about 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; greenish gray; moist; weak reaction w/HCl; homogeneous @ 84.5-84.6'		
HQ	11	5.0	5.0	1.8	100	36	88		492		DOLOMITE; brecciated (healed); argillaceous; gray; pitted; micritic; fresh to slightly weathered; strong; hard; pits 0.04-0.16", some filled w/calcite & anhydrite; (Bass Islands Group).		
							89		491		DOLOMITE & SHALE; dolomitic; gray, mottled; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group).		
							90		490		shale band; dark gray; very fine grained; fresh; strong; hard @ 87.0-87.1'		
											grades w/shale partings @ 87.1'	Core box #5 starts @ 89.0'	
											DOLOMITE; argillaceous; light olive brown & gray; micritic fresh; strong; hard; w/zones of very closely		

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# BORING LOG

BORING NO. RB-C3

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>RB for TB for TB for</i> Grainger/Bonnie/Mass	CHECKED BY <i>EM for TB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	12	5.0	5.0	4.4	100	88	90		490		spaced stylolites (7" apart); (Bass Islands Group). highly fractured @ 87.4-87.9'		
							91		489		90° J, Ca, Pa, PI, SR @ 87.4-87.9' (2) 0° J, No, No, PI, SR @ 88.3' 20° J, Cl, Fi, PI, S @ 88.7' vuggy @ 89.4-89.8'		
							92		489		brecciated (healed) @ 89.8-90.3' highly fractured @ 91.7-92.0'		
							93		488		90° J, T, PI @ 92.0-92.5' (many)		
							94		487		30° J, Cl, Fi, PI, SR @ 93.4-93.5' 0° J, Cl, Fi, PI, SR @ 93.4'		
			94.0				95		486		0° & 30° joints filled w/clay & highly fractured dolomite @ 93.4-93.5'		
							96		485		20° J, No, No, PI, SR @ 94.8' shale lenses in dolomite matrix, some fractures healed @ 95.0-96.3'		
HQ	13	5.0	5.0	3.4	100	68	97		484		shale parting - 0° B, WA, SR @ 96.4'		
							98		483		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; very strong; hard; w/very closely spaced, black shale partings; (Bass Islands Group). shale; black; very fine grained; fresh; strong; hard @ 96.7-96.8'		
							99		482		90° J, No, No, WA, SR @ 96.8-97.0' 90° J, Cl, Fi, WA, SR @ 96.8-97.7' 90° J, No, No, PI, SR @ 97.9-98.0', 100.5-100.7'		
			99.0				100		481		0° B, Cl, Fi, PI, SR @ 99.2', 99.4' 60° J, No, No, PI, SR @ 99.4-99.6'	No drilling fluid return @ 99.0'.	
							101		480		10° B/J, No, No, PI, S @ 100.5', 100.6', 100.7' mottled; convoluted bands @ 100.7-101.7'		
HQ	14	5.0	5.0	3.7	100	74	102		479		highly fractured @ 101.6-101.7'		
							103		478		DOLOMITE; olive gray & grayish brown, banded; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0° B, No, No, PI, SR @ 101.9' 10° B, UK, Fi, PI, SR @ 102.7' very closely spaced stylolites @ 102.7'	Core box #6 starts @ 102.8'.	
			104.0				104		477		grades light brownish gray @ 103.8'		
							105		476		highly fractured @ 104.6', 105.1-105.2'		

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# BORING LOG

BORING NO. RB-C3  
SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	15	5.0	5.0	2.8	100	56	105		475		90°, J, No, No, PI, SR @ 105.4-105.6' lean clay band - medium plasticity, medium toughness, no dilatancy fines; dark gray; moist; strong reaction w/HCl; homogeneous @ 105.6-105.7'	
							106		474			
							107		473		90°, J, No, No, PI, SR @ 107.1-107.2' highly fractured @ 107.1-109.0' shale parting - 0°, B, PI, SR @ 107.1'	
							108		472		20°, J, No, No, PI, SR @ 107.5' 70°, J, Ca, Fi, PI, SR @ 107.5-107.7', 107.7-107.9' 80°, J, No, No, WA, SR @ 107.7-108.6' (3)	
			109.0				109		471		30°, J, Cl, Pa, PI, SR @ 109.5'	
							110		470		90°, J, Cl, Fi, PI, SR @ 109.9-110.1' 0°, B, Cl, Pa, PI, SR @ 109.9' highly fractured @ 110.1-110.3'	
HQ	16	5.0	4.8	2.9	96	58	111		469		<u>DOLOMITE</u> ; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; pits 0.004-0.12"; (Bass Islands Group).	
							112		468		90°, J, No, No, PI, SR @ 110.3-110.8', 110.6-111.1' 20°, J, Cl, Pa, PI, SR @ 110.8'	
							113		467		80°, J, No, No, PI, SR @ 110.8-112.2' very closely spaced stylolites @ 111.1', 111.6', 112.6' 0°, B, UK, Fi, PI, SR @ 111.1'	
							114		466		60°, J, Cl, Pa, PI, SR @ 113.5-113.8'	Core loss @ 113.8-114.0'
			114.0				115		465		very pale brown @ 114.0-115.0' 50°, J, Ca, Pa, PI, R @ 114.0-114.1'	
							116		464		0°, J, B, anhydrite, Fi, PI, SR @ 115.6' joint filled w/large (~ 0.8") anhydrite crystals highly fractured @ 115.6-115.8', 116.8-117.5', 118.2-118.7'	Core box #7 starts @ 116.1'
HQ	17	5.0	4.7	1.3	94	26	117		463		very strong; very hard @ 115.8-116.8' 0°, B, Cl, Fi, PI, SR @ 116.1' 40°, J, Ca, Pa, PI, SR @ 116.3'	
							118		462		fat clay band - about 100% high plasticity, medium toughness, no dilatancy, very high dry strength fines; greenish gray; moist; weak reaction w/HCl; homogeneous @ 116.5-116.8'	
							119		461		30°, J, Ca, Fi, PI, SR @ 117.5' gray & light brownish gray, mottled @ 117.5-119.0' 80°, J, Cl, Pa, PI, R @ 117.5-118.2'	Core loss @ 118.7-121.6'
			119.0				120		461			

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# BORING LOG

BORING NO. RB-C3

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	18	5.0	2.4	0.0	48	0	120		460				
							121		459			DOLOMITE & SHALE; dolomitic; dark greenish gray & gray, banded; micritic to very fine grained; fresh; very strong; hard; (Salina Group - Unit F). highly fractured @ 121.6-122.1', 122.7-123.0'	
							122		458				
							123		457			80°, J, No, No, PI, SR @ 123.0-123.4' 0°, J/B, No, No, PI, SR @ 123.2' 0°, B, CI, FI, PI, SR @ 123.4' 60°, J, No, No, PI, SR @ 123.5-123.7' 90°, J, No, No, PI, SR @ 123.8-124.0'	Core loss @ 124.0-127.2'
							124		456				
HQ	19	5.0	1.6	0.0	32	0	125		455				
							126		454			highly fractured; some clasts contain large (~ 0.8") anhydrite crystals & calcite filled joints @ 127.0-128.2' brecciated; light gray; w/lenses of white; micritic (crystalline); fresh; strong; hard; anhydrite @ 128.2-130.5'	
							127		453				
							128		452			80°, J, anhydrite, Pa, PI, SR @ 128.2-128.5'	
							129		451				Core loss @ 129.0-130.0'
HQ	20	2.5	1.5	0.0	60	0	130		450			highly fractured @ 130.0-130.4', 130.6-131.1'	
							131		449			90°, J, No, No, PI, SR @ 130.4-130.6' grades gray @ 130.5'	
							132		448				Core loss @ 131.5-132.5'
HQ	21	2.5	1.5	0.0	60	0	133		447				
							134		446			LIMESTONE; argillaceous; dark greenish gray; pitted; very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; thin bedded; w/clay partings; medium plasticity, medium toughness, no dilatancy fines; gray; moist; strong reaction w/HCl; homogeneous; (Salina Group - Unit F).	
							135		445				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	22	2.0	1.5	0.0	75	0	135		445		CLAYSTONE; dolomitic; greenish gray; very fine grained; moderately weathered; moderately strong; moderately hard; w/areas of weak, low hardness; (Salina Group - Unit F). highly fractured @ 135.5-136.0'	Core barrel jammed @ 136.0'. Core loss throughout @ 136.0-139.0'.
HQ	23	3.0	1.1	0.0	37	0	136		444		argillaceous dolomite fragments ; gray; micritic; fresh; strong; hard @ 137.2-137.3'	
							137		443		argillaceous dolomite fragments @ 139.0-139.6'	Core loss @ 139.0-139.6'.
HQ	24	2.5	1.9	0.4	76	16	138		442		CLAYSTONE & LIMESTONE; CLAYSTONE: dolomitic; very dark greenish gray; moderately weathered; moderately strong; moderately hard; LIMESTONE: shaley; very dark gray; fissile to massive; slightly to moderately weathered; strong; hard; thin bedded; w/calcite & trace pyrite filling/healing of fractures, pits, & vugs; (Salina Group - Unit F).	Core box #8 starts @ 141.5'. Core loss throughout @ 141.5-149.0'.
HQ	25	2.5	1.5	0.0	60	0	139		441		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; highly fractured; (Salina Group - Unit F).	
							140		440		CLAYSTONE & LIMESTONE; CLAYSTONE: dolomitic; very dark greenish gray; moderately weathered; moderately strong; moderately hard; LIMESTONE: shaley; very dark gray; fissile to massive; slightly to moderately weathered; strong; hard; thin bedded; w/calcite & trace pyrite filling/healing of fractures, pits, & vugs; (Salina Group - Unit F).	
HQ	26	2.5	1.0	0.0	40	0	141		439		dolomite fragments; argillaceous; dark bluish gray; very fine grained; fresh; strong; hard @ 145.7-146.7'	
							142		438		CLAYSTONE; dolomitic; brecciated (not healed); gray; moderately to highly weathered; very weak to weak; low hardness to friable; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy to rapid dilatancy soil fines; (Salina Group - Unit F). highly fractured @ 147.8-149.0' moderately weathered; moderately strong; moderately hard @ 148.3-148.4' highly weathered; weak; low hardness @ 148.7-	
HQ	27	2.5	1.7	0.0	68	0	143		437			
							144		436			
							145		435			
							146		434			
							147		433			
							148		432			
							149		431			
							150					

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# BORING LOG

BORING NO. RB-C3

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	28	2.5	2.5	2.0	100	80	150	X	430		148.9' 60°, J, No, No, PI, SR @ 148.9-149.1'	Discrete sample 8-A collected @ 149.9-151.3'	
							151		429		CLAYSTONE; dolomitic; light greenish gray; very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F). 10°, B/J, No, No, St, R @ 151.3' grades greenish gray @ 151.3'		
HQ	29	2.5	1.0	0.5	40	20	152		428		DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & very dark gray, banded; pitted; micritic to very fine grained; slightly weathered; strong; hard; banded to thin bedded; wavy bedding; (Salina Group - Unit F). 20°, J, No, No, PI, SR @ 152.6-152.7' highly fractured @ 154.0-154.3', 154.5-154.7', 154.9-155.1', 155.4-155.6', 155.9-156.0'		
HQ	30	2.5	2.5	0.5	100	20	155		425		100°, J, No, No, PI, SR @ 155.7-155.9' 80°, J, No, No, WA, SR @ 155.7-155.9'		
HQ	31	2.5	1.2	0.0	48	0	158		423		90°, J, Ca, Fi, PI, SR @ 157.2-157.5', 157.9-158.1' 90°, J, No, No, PI, SR @ 157.2-157.5' light greenish gray and very dark gray @ about 157.2-158.4'	Core loss throughout @ 156.5-159.0'	
HQ	32	2.5	2.5	0.0	100	0	160		420		highly fractured; w/many joints oriented @ 70°, J, No, No, PI, SR @ 159.8-160.5'		
HQ	33	2.5	2.5	0.8	100	32	162	X	418		40°, J, CI, Fi, PI, SR @ 160.9-161.0'	Discrete sample 8-B collected @ 161.9-162.8'	
							164		416		Breccia - dolomite clasts in a indurated claystone matrix; claystone matrix; dolomitic; greenish gray; micritic; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; argillaceous; dark gray; micritic; slightly weathered; moderately strong; moderately hard @ 163.0-163.4'	Core box #9 starts @ 164.0'. Core loss @	

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# BORING LOG

BORING NO. RB-C3

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>TD for Grainger/Bonnie/Mass</i>		CHECKED BY <i>TD for Dogbey/Mass</i>	APPROVED BY <i>SM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	34	5.0	3.8	1.5	76	30	165		415		LIMESTONE & DOLOMITE; argillaceous; gray; interbedded; micritic; slightly weathered; moderately strong; moderately hard; thin bedded w/shale bands; (Salina Group - Unit F).	164.0-164.7'.  Discrete sample 9-A collected @ 166.2-166.8'.	
							166		414				
							167		413		DOLOMITE; argillaceous; banded; greenish gray; micritic; slightly weathered; strong; hard; w/very dark gray shale partings & bands; (Salina Group - Unit F), shale band; very dark gray; very fine grained; slightly weathered; moderately strong; moderately hard @ 167.5-167.6' highly fractured @ 167.6-168.5'	167.3  Core loss throughout @ 168.5-184.5'.	
			169.0				168		412				
HQ	35	5.0	0.0	0.0	0	0	169		411				
							170		410				
							171		409				
							172		408				
							173		407				
			174.0				174		406				
HQ	36	2.5	1.0	0.4	40	16	175		405		DOLOMITE & CLAYSTONE; dolomitic; light greenish gray to very dark gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F).	174.7	
							176		404				
			176.5				177		403		dolomite fragments; argillaceous; dark gray; micritic; fresh; strong; hard @ 177.5-177.7' claystone; brecciated (not healed); very dark greenish gray; highly weathered; weak, low hardness; properties comparable to high plasticity, low toughness, no dilatancy soil fines; moist @ 177.7-178.0'		
HQ	37	2.5	0.5	0.0	20	0	178		402				
							179		401				
			179.0				180		401				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>Granger/Bonnie/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	38	2.5	0.8	0.0	32	0	180				BRECCIA - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; gray; highly weathered; very weak; low hardness; w/clasts of dolomite; gray & light greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 70° J, CI, Pa, PI, SR @ about 180.4-180.6'	
HQ	39	2.5	1.2	0.7	48	28	181.5				DOLOMITE & CLAYSTONE; dolomitic; light greenish gray to very dark gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 40° J, CI, Pa, PI, SR @ 182.4-183.5'	
HQ	40	2.5	2.0	0.8	80	32	182.6				BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; pale yellow to dark gray; very fine grained; slightly weathered; moderately strong; moderately hard; w/angular clasts of dolomite; light brownish gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 60° J, N, PI @ 183.0-183.1' 90° J, N, PI @ 183.1-183.3' 50° J, N, PI @ 183.3'	
HQ	41	2.5	2.5	0.8	100	32	184.0				BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; greenish gray; moderately weathered; moderately strong; moderately hard; w/ angular clasts of dolomite; argillaceous; gray; micritic; fresh; strong; hard; w/calcite partings; (Salina Group - Unit F).	
HQ	42	5.0	4.8	2.2	96	44	186.5				BRECCIA - dolomite clasts in a indurated claystone matrix: claystone matrix; dolomitic; dark greenish gray; moderately weathered; moderately strong; moderately hard; w/lenses of fine medium sand; w/ angular clasts of dolomite; some argillaceous; dark gray & grayish brown; micritic to very fine grained; fresh to slightly weathered; strong; hard; includes sand-, gravel-, and cobble-sized clasts; (Salina Group - Unit F). fissile @ 186.9-187.2' claystone band; dolomitic; gray; completely weathered; extremely weak; friable; properties comparable to low plasticity, low toughness, rapid dilatancy soil fines @ 189.4-189.5' dolomite; light brownish gray; micritic; fresh; strong; hard @ 190.0-190.3' claystone band; dolomitic; gray; highly weathered; very weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 190.4-190.6' greenish gray breccia fragments @ 190.6-191.4'	Core loss @ 189.0-189.2'  Core box #10 starts @ 191.3'.
							189.0					
							189.2					
							190.0					
							191.3					
							192.0					
							193.8					
							194.0					
							194.1					
							194.2					
							194.8					
							195					

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# BORING LOG

BORING NO. RB-C3

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>RB for</i> Grainger/Bonnie/Mass		CHECKED BY <i>RB for</i> Dogbey/Mass	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	43	5.0	4.6	2.4	92	48	195					DOLOMITE; light brownish gray; micritic; fresh; very strong; very hard; w/fossils (ostracodes); (Salina Group - Unit F).	
							196					20°, J, Cl, Pa, PI, R @ 196.1'	
							197					70°, J, VN, Ca, Fi, PI @ 196.2-196.6'	
							198					LIMESTONE; dark grayish brown & grayish brown; pitted/vuggy; very fine to fine grained (crystalline); slightly to moderately weathered; strong; hard; pits/vugs 0.04-0.8"; irregular shape; many elongate; joints/vugs w/0.08" calcite crystals; (Salina Group - Unit F).	
							199					dolomite; light brownish gray; micritic; fresh; very strong; very hard @ 196.9-197.3'	Water level @ 23.9' prior to drilling on 07/31/07.
HQ	44	3.0	2.5	0.6	83	20	200					40°, J, Ca, Fi, PI, SR @ 198.4-198.5'	
							201					70°, J, Ca, Fi, Ir, SR @ 199.8-200.1'	
							202					20°, J, Ca/Cl, Pa, PI, SR @ 200.8'	Core loss @ 201.4-202.0'
							203					80°, J, Ca/Cl, Pa, PI, SR @ 201.1'	Core barrel jammed @ 202.0'
HQ	45	2.0	2.0	0.8	100	40	204					siltstone band; calcareous, gray, very fine grained, highly weathered, weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 201.3-201.4'	
							205					BRECCIA - claystone & dolomite clasts in a indurated limestone matrix: limestone matrix; argillaceous; gray; pitted/vuggy; micritic; slightly weathered; strong; moderately hard to hard; w/angular clasts of claystone & trace dolomite; dark gray & grayish brown; micritic; slightly weathered; strong; moderately hard to hard; (Salina Group - Unit F).	
HQ	46	1.5	1.5	0.8	100	53	206					50°, J, Cl, Pa, PI, R @ 202.3-202.5'	
							207					claystone parting; dolomitic; gray; highly weathered; weak; low hardness; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 205.3-205.4'	Core box #11 starts @ 205.5'.
							208					LIMESTONE; dark gray; pitted; micritic to very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; pits 0.04-0.16", many elongate w/long axis parallel to bedding; calcite crystal growth in pits; (Salina Group - Unit F).	
HQ	47	3.5	3.5	1.6	100	46	209					90°, J, Ca, Fi, PI, SR @ 206.8-207.2'	
							210					argillaceous @ 207.6-207.8'	
												BRECCIA - claystone & dolomite clasts in a indurated limestone matrix: limestone matrix; argillaceous; gray; pitted; micritic; slightly weathered; strong; moderately hard to hard; w/angular clasts of claystone & trace	Core loss @ 209.0-210.0'

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY Grainger/Bonnie/Mass	CHECKED BY Dogbey/Mass	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	LOGGED BY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	LOGGED BY						
HQ	48	5.0	4.0	0.5	80	10	210		370		dolomite; dark gray & grayish brown; micritic; slightly weathered; strong; moderately hard to hard; (Salina Group - Unit F).		
							211		369		LIMESTONE; dark gray; pitted; micritic to very fine grained (crystalline); slightly to moderately weathered; strong; moderately hard to hard; pits 0.04-0.16", many elongate w/long axis parallel to bedding; calcite crystal growth in pits; (Salina Group - Unit F). 20°, J, N, Ca, Pa, PI, SR @ 208.5' 0°, B, Ca, Fi, PI, SR @ 208.8'		
							212		368				
							213		367		DOLOMITE; light gray; micritic; fresh; strong; hard; w/ fossils & very dark gray; micritic; fresh; strong; hard; lenses & thin partings of limestone; (Salina Group - Unit F).		
			214.0				214		366		90°, J, V, N, Ca, Fi, WA @ 210.3-211.7' (many) 0°, B, No, No, PI, SR @ 210.5', 211.6'	Core loss @ 214.0-214.2'	
							215		365		fossils grade out @ 210.8' limestone partings - 0°, B, PI, SR @ 211.2', 213.0'		
HQ	49	5.0	4.8	1.6	96	32	216		364		LIMESTONE & DOLOMITE; gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F). limestone band; very dark gray; pitted/vuggy; micritic; slightly weathered; strong; hard @ 213.4-213.6'		
							217		363		LIMESTONE; dark gray; pitted; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 90°, J, Ca, Pa, PI, SR @ 214.3-214.6' 80°, J, Ca, Fi, PI, SR @ 214.6-215.2'		
							218		362		DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; w/fossils (ostracodes); (Salina Group - Unit F).		
			219.0				219		361		0°, B, No, No, PI, SR @ 215.9' limestone parting - 0°, B, PI, SR @ 216.1' highly fractured @ 216.5-216.6'	Core loss @ 219.0-219.6'	
							220		360		LIMESTONE; grayish brown; vuggy; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 20°, J, Ca, Pa, PI, SR @ 217.5-217.6' highly fractured @ 218.3-218.4'		
HQ	50	5.0	4.4	1.0	88	20	221		359		50°, J, Ca, Fi, PI, SR @ 218.9'-219.0' claystone band; dolomitic; very dark greenish gray; very fine grained; highly weathered; very weak; low hardness; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, no dilatancy soil fines @ 219.7-219.9'	Core box #12 starts @ 221.7'	
							222		358		30°, J, Ca, Pa, PI, SR @ 220.4-220.5', 220.6-220.7' 70°, J, Ca, Pa, PI, SR @ 220.8-221.2'		
							223		357		dolomite; light brownish gray; micritic; fresh; strong; hard; @ 221.4-221.7'		
			224.0				224		356		20°, J, No, No, PI, SR @ 222.8'	Core loss @ 224.0-225.0'	
							225		355		DOLOMITE; light olive brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 10°, J, Cl, Fi, PI, SR @ 222.9'		

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BORING NO. RB-C3

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY Geo Log Grainger/Bonnie/Mass		CHECKED BY E M for Dogbey/Mass	APPROVED BY E M Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	51	4.5	3.0	0.0	67	0	225		355		10°, J, T, PI @ 223.0'		
							226		354		LIMESTONE; grayish brown; vuggy; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 30°, J, CI, FI, PI, SR @ 223.5' 10°, J, CI, FI, PI, SR @ 223.6' dark gray; highly fractured @ 225.0-226.0' 90°, J, CI, FI, PI, SR @ 226.0-226.2' dolomite band; pale yellow; micritic; fresh; strong; very hard @ 226.0-226.2'		
							228		353		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; gray; moderately to highly weathered; weak; low hardness; hydrocarbon odor; properties comparable to high plasticity, low toughness, no dilatancy soil fines; w/ angular clasts of dolomite; light gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Core loss @ 228.0-228.5'. Core barrel jammed @ 228.5'.	
			228.5				229		352				
HQ	52	4.5	3.8	0.6	84	13	230		351		DOLOMITE; argillaceous; grayish brown to very dark brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 70°, J, Ca, FI, PI, SR @ 227.3-227.8' 0°, J, Ca, FI, PI, SR @ 228.2' 60°, J, Ca, FI, PI, SR @ 228.3-228.4'		
							231		350				
							232		349		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; gray; moderately to highly weathered; weak; low hardness; hydrocarbon odor; properties comparable to high plasticity, low toughness, no dilatancy soil fines; w/ angular clasts of dolomite; light gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Core barrel jammed @ 233.0'.	
HQ	53	1.0	0.7	0.0	70	0	233		348				
							234		347				
			234.0				235		346		grades dark greenish gray @ 229.2' grades greenish gray @ 230.1' dolomite; argillaceous; gray; micritic; fresh; strong; hard; w/gypsum nodules @ 230.8-231.1'		
							236		345		DOLOMITE; argillaceous; dark gray; very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, Gy, FI, PI @ 231.8-232.4' (many)		
HQ	54	5.0	4.1	2.2	82	44	237		344				
							238		343		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; light gray; micritic; moderately to highly weathered; weak; low hardness; hydrocarbon odor; properties comparable to low plasticity, low toughness, no dilatancy soil fines; w/ angular clasts of dolomite; light gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Core loss of 1.0' @ 236.7-239.0'.	
							239		342		dolomite band; argillaceous; dark gray; very fine grained (crystalline); fresh; strong; hard @ 232.9' 90°, J, VN-N, Gy, FI, WA @ 232.9-233.0' (many)	Core box #13 starts @ 239.0'.	
			239.0				240		341				
									340				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>TC for Grainger/Bonnie/Mass</i>	CHECKED BY <i>TC for Dogbey/Mass</i>	APPROVED BY <i>TC for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	55	5.0	4.6	1.9	92	38	240		240		DOLOMITE & ANHYDRITE; mottled; DOLOMITE: dark greenish gray to gray; fresh; strong; hard; ANHYDRITE: light greenish gray to light gray; micritic; fresh; strong; hard; massive; convoluted lenses and partings; (Salina Group - Unit F). 90° J, VN, anhydrite, Fi, WA @ 233.0-236.7' (many)		
							241		340				
							242		339		BRECCIA - dolomite clasts in a poorly to indurated claystone matrix: claystone matrix; greenish gray to gray; slightly to highly weathered; moderately hard to very weak; moderately hard to low hardness; slight hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines; w/ angular clasts of dolomite; argillaceous; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							243		338				
							244		337				
HQ	56	5.0	5.0	2.1	100	42	244.0		244		LIMESTONE; dark grayish brown; vuggy; very fine grained (crystalline); slightly weathered; strong; hard; vugs 0.04-0.4"; some vugs partially filled w/calcite; (Salina Group - Unit F). 90° J, Ca, Fi, WA, SR @ 241.3-242.0' 50° J, Ca, Fi, PI, SR @ 241.6-241.7' 70° J, Ca, Fi, PI, SR @ 241.9-242.3'		
							245		336				
							246		335				
							247		334		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E). limestone parting - 0° J, PI, SR @ 243.0' 60° J, Ca, Fi, PI, SR @ 243.3-243.5'		
							248		333				
							249		332		DOLOMITE; light brownish gray; micritic; fresh; very strong; hard; w/fossils (ostracodes); few shale partings; (Salina Group - Unit E). 20° J, No, No, PI, SR @ 244.8-244.9' mottled w/limestone @ 244.9-245.0' 50° J, N, PI @ 245.5-245.9' 150° J, Ca, Fi, PI, SR @ 245.5' (2) 70° J, N, PI @ 245.8-246.1' 40° J, Ca, Fi, PI, SR @ 245.9-246.0' 90° J, VN, Ca, Fi, PI @ 246.3-247.2'		
							249.0		331				Core loss @ 249.0-249.4'. Water level @ 24.5' prior to drilling on 08/01/07.
							250		330				
							251		329		DOLOMITE & LIMESTONE; mottled; dolomite grades to limestone; (Salina Group - Unit E).		
HQ	57	5.0	4.6	1.5	92	30	251.0		251		LIMESTONE; dark grayish brown; pitted/vuggy; slightly to moderately weathered; strong; hard; highly fractured; dolomite fragments in limestone; (Salina Group - Unit E).		
							252		328				
							253		327		DOLOMITE; light gray; micritic; fresh; strong; hard; w/ fossils (ostracodes); few stylolites & shale partings; (Salina Group - Unit E). 44° J, Ca, Fi, PI, SR @ 250.6-250.8' 60°, 90°, J, N, Ca, Fi, PI, SR @ 250.9-251.1' (many fractures) 90° J, Ca, Pa, PI, SR @ 251.4-252.0' 0° J, Cl, Pa, PI, SR @ 251.5-252.6'		
							254		326		grades pale yellow; pitted; w/fossils that dissolve to		Core box #14 starts @ 254.0'.
							255		325				

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# BORING LOG

BORING NO. RB-C3

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6273.2'	GROUND ELEVATION (DATUM) E 4606.0' 580.6 ft (NAVD 88)	TOTAL DEPTH 274.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>Granger/Bonnie/Mass</i>		CHECKED BY <i>EB for Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	58	5.0	3.6	0.4	72	8	255				form pits @ 252.1' highly fractured @ 252.3-252.4', 252.5-253.0' 70° J, No, No, PI, SR @ 252.5-252.9', 253.3-253.7' 40° J, No, No, PI, SR @ 253.3-253.5' 0° B, No, No, PI, SR @ 253.4' 30° J, No, No, PI, SR @ 253.6', 253.7' 70° J, No, No, PI, SR @ 253.7-254.0' 40° J, CI, Pa, PI, SR @ 254.3-254.6' highly fractured w/fat clay; about 100% high plasticity, medium toughness, no dilatancy fines; white; wet; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 254.6-254.9' highly fractured @ 255.1-255.2' 30° J, No, No, PI, SR @ 255.2' 0° B, UK, FI, PI, SR @ 255.4' 40° J, No, No, PI, SR @ 255.6-255.7' highly fractured @ 255.7-258.7'	Core loss of 1.4' @ 255.7-258.7'	
			259.0				259				grades light gray & grayish brown, banded @ 257.8'		
HQ	59	5.0	5.0	3.2	100	64	260				DOLOMITE; argillaceous; gray, banded; micritic; fresh; very strong; hard; w/shale partings; (Salina Group - Unit E).		
							261				DOLOMITE; argillaceous; gray & dark gray; interbedded; micritic to very fine grained; fresh; strong to very strong; hard to very hard; w/white; micritic; fresh; moderately strong; moderately hard;		
							262				convoluted gypsum lenses, partings, bands, and thin beds; trace anhydrite; thickest gypsum bed @ 263.5-263.8'; w/shale partings; (Salina Group - Unit E).		
							263				0° J, No, No, PI, SR @ 260.3', 260.5', 262.6' 0° J, N, CI, FI, SR @ 261.8'		
							264				DOLOMITE; grayish brown; very fine grained (crystalline); fresh; strong; hard; w/gypsum lenses; (Salina Group - Unit E).		
							265						
							266				DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; strong; hard; w/dark gray; very fine grained; fresh; strong; hard; shale partings and bands; (Salina Group - Unit E).		
HQ	60	5.0	5.0	4.8	100	96	267				0° J, CI, Pa, PI, SR @ 266.1', 266.3' 80° J, VN, Gy, FI, PI, S @ 266.8-267.1'		
							268				DOLOMITE; grayish brown; very fine grained (crystalline); fresh; strong; hard; w/gypsum lenses; (Salina Group - Unit E).		
							269				DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; strong; hard; w/dark gray; very fine grained; fresh; strong; hard; shale partings and bands; (Salina Group - Unit E).		
			269.0				269						
			269.5				311					Core barrel jammed @	
							270						

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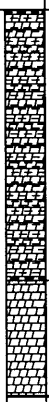
# BORING LOG

BORING NO. RB-C3

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI					COORDINATES N 6273.2'					GROUND ELEVATION (DATUM) E 4606.0'					TOTAL DEPTH 274.0 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 06/13/07					DATE FINISHED 08/01/07				
SAMPLING										LOGGED BY <i>7B</i> Grainger/Bonnie/Mass					CHECKED BY <i>7B for</i> Dogbey/Mass					APPROVED BY <i>fm</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
HQ	62	1.0	1.0	0.0	100	0	270																	
			270.5				271																	
HQ	63	3.5	3.5	3.5	100	100	272																	
							273																	
							274																	
							275																	
							276																	
							277																	
							278																	
							279																	
							280																	
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							282																	
							283																	
							284																	
							285																	

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DOLOMITE; argillaceous; gray & brown; interbedded; micritic; fresh; strong; hard; w/gypsum lenses, partings, bands, and thin beds that compose about 40% volume of layer; thickest gypsum bed @ 271.9-272.2'; (Salina Group - Unit E). grades brownish downward

claystone band; dolomitic; white; micritic; highly weathered; very weak; friable; strong hydrocarbon odor; properties comparable to low plasticity, low toughness, slow dilatancy soil fines @ 269.7-269.8' 0°, B/J, Cl, Pa, Pl, SR @ 271.8'

DOLOMITE; brown; pitted; micritic; fresh; very strong; very hard; w/fossils (ostracodes) & few widely spaced gypsum partings; (Salina Group - Unit E).

269.5'. Core box #15 starts @ 269.5'. Core barrel jammed @ 270.5'.

Bottom of boring @ 274.0'. Water level @ 25.3' @ completion of drilling. Backfilled w/ bentonite chips to 35' on 09/07/07. Backfilled w/ bentonite chips to 4' & backfilled w/gravel to surface on 09/13/07.



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# BORING LOG

BORING NO. RB-C4

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

SAMPLING		LOGGED BY <i>TB</i> Bonnie/Grainger/Mass	CHECKED BY <i>sm</i> Dogbey/Mass	APPROVED BY <i>em</i> Meyer
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
S	1							Poorly graded COBBLES - About 90% angular to subangular, cobbles w/max. size 9"; about 10% sand; dark reddish gray; dry; weak reaction w/HCl; homogeneous; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler.  Discrete sample S01 collected from S-1.				
			5.0										
S	2								Discrete sample S02 collected from S-2.				
			10.0										
S	3							Lean CLAY with Gravel (CL) - About 82% LL=34, PL=17, no dilatancy, high dry strength fines; about 10% gravel; about 8% fine to coarse sand; reddish brown & gray, mottled; moist; no reaction w/HCl; homogeneous.	Discrete sample S03 collected from S-3 (between 12.0' & 14.0').				

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# BORING LOG

BORING NO. RB-C4

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

SAMPLING		LOGGED BY <i>TB for Bonnie/Grainger/Mass</i>	CHECKED BY <i>TB for Dogbey/Mass</i>	APPROVED BY <i>SM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	4		15.0				1.7	15		565		Lean CLAY (CL) - About 99% LL=37, PL=17 fines; about 1% fine to medium sand; reddish brown & gray, mottled; moist; no reaction w/HCl; homogeneous.	Below 15.0', continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.
SPT	5	3	5	6	11		1.5	16		564		Lean CLAY (CL) - About 90% LL=40, PL=19, slow dilatancy, high dry strength fines; about 10% fine to coarse sand; <1% gravel; dark gray & weak red; laminated; soft; moist; (Glacial Till).	
TW	6						1.0	17		563			
SPT	7	2	6	12	18		1.0	18		562		Lean CLAY with Sand and Cobbles (CL) - About 80% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 15% fine to coarse, rounded, hard sand; about 5% angular, hard cobbles; dark gray; very stiff; moist; strong reaction w/HCl; homogeneous; (Glacial Till). grades w/cobbles @ 21.2'	TW refusal @ 21.2'. Hard drilling @ 21.2'.
TW	8						0.2	19		561			
P	9						1.2	20		560		Lean CLAY with Sand (CL) - About 71% LL=24, PL=13, high dry strength fines; about 27% fine to coarse, rounded, hard sand; about 2% gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	TW refusal @ 24.2'. Sample w/pitcher sampler.
								21		559		Clayey SAND (SC) - About 73% fine to coarse, rounded, hard sand; about 17% LL=18, PL=11 fines; about 10% gravel; dark gray; moist; strong reaction w/HCl; homogeneous; (Glacial Till). grades w/cobbles @ 26.0'	PP > 4.5 TSF @ 26.0'. Drilling indicates gravel & cobbles @ 26.0'.
								22		558			
								23		557			
								24		556			
								25		555			
								26		554			
								27		553			
								28		552			
								29		551			
								30		550			

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# BORING LOG

BORING NO. RB-C4

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
SPT	10	50/4"	-	-	50+	0.2	30		550				
			31.3				31		549			DOLOMITE; dark gray; micritic; slightly weathered; very strong; very hard; medium bedded; (Bass Islands Group).	Split spoon refusal @ 31.3'. Below 31.3' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Set nominal 6" temporary steel casing to 34.0'. Sonic core S-11 stored in box labeled S1. Below 34.7' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 13.9' prior to drilling on 06/26/07. Core box #1 starts @ 34.7'. Drill chatter @ 38.5'. Drill chatter @ 40.0'.
S	11					3.4	32		548				
			34.7				33		547				
							34		546				
HQ	1	4.3	4.3	2.1	100	49	35		545			DOLOMITE; gray; micritic; fresh; strong; hard; w/moderately wide spaced stylolites; (Bass Islands Group). 0°, J, Gy, Pa, WA, R @ 35.3' 0°, J, No, No, PI, R @ 35.7', 35.9'	
							36		544				
							37		543				
							38		542			90°, J, No, No, PI, SR @ 37.6-39.0' 85°, J, No, No, PI, SR @ 37.6-39.0' numerous, closely spaced fractures @ 37.6-39.0'	
							39		541			0°, J, CI, FI, PI, SR @ 38.8'	
							40		540			90°, J, No, No, PI, R @ 39.2-39.8' 0°, J, CI, Pa, PI, SR @ 39.3', 39.9', 40.0', 40.2' 20°, J, No, No, PI, SR @ 39.6' highly fractured @ 40.0-40.2' grades brownish gray @ 40.2'	
							41		539			0°, B, No, No, PI, R @ 41.1'	
HQ	2	5.0	5.0	2.9	100	58	42		538			0°, B, UK, FI, PI, SR @ 41.7' 0°, B, No, No, PI, SR @ 41.9', 42.8' 90°, J, CI, Pa, PI, SR @ 42.0-42.6' gray; very fine to fine grained (crystalline) @ 42.2-42.8'	
							43		537			60°, J, No, No, PI, SR @ 43.1-43.2' 0°, B, UK, Pa, PI, SR @ 43.2', 43.4', 43.7', 43.9' 90°, J, No, No, Ir, SR @ 43.4-44.0' (3) intersect about vertical axis	
							44		536			highly fractured @ 44.0-44.5'	
							45		536			DOLOMITE; gray; vuggy; micritic to fine grained	Water level @ 18.2' prior to

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# BORING LOG

BORING NO. RB-C4

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie Grainger/Mass</i>		CHECKED BY <i>Erin Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
HQ	3	5.0	5.0	2.5	100	50	45		535		(crystalline); fresh to slightly weathered; strong; very hard; largest vug about 1" diameter; larger vugs partially filled with calcite crystals; (Bass Islands Group).	drilling on 06/27/07.	
							46		534		30°, J, Ca, Pa, PI, SR @ 44.5' 60°, J, Ca, Pa, PI, R @ 46.0-46.4' 110°, J, Ca, Pa, PI, R @ 46.0-46.4' 0°, B, No, No, WA, R @ 46.6'		
							47		533				
							48		532		10°, J/B, Ca, Pa, PI, SR @ 48.3'		
			49.0				49		531		20°, J/B, No, No, PI, SR @ 48.8' grades pale brown @ 49.0' 0°, B, Cl, Pa, PI, R @ 49.0' 0°, B, UK, Pa, St, SR @ 49.3' 90°, J, UK, Pa, PI, SR @ 49.3-49.5'	Core box #2 starts @ 49.0'.	
HQ	4	5.0	5.0	2.3	100	46	50		530		135°, J, Cl/Ca, Pa, PI, SR @ 50.1-50.4' 20°, J, Cl/Ca, Pa, PI, SR @ 50.2-50.4' 20°, J, Cl, Pa, PI, SR @ 50.6'		
							51		529		85°, J, No, No, PI, SR @ 50.9-51.0' 0°, B, UK, Pa, PI, SR @ 51.1' 30°, J, No, No, PI, SR @ 51.1-51.2'		
							52		528		75°, J, No, No, PI, R @ 51.7-51.9' 140°, J, UK, Pa, PI, SR @ 51.8-52.1' 90°, J, Ca, Pa, WA, SR/R @ 52.2-53.6' 75°, J, Ca, Pa, PI, SR @ 52.3-52.5'	Drill chatter @ 52.4'.	
							53		527		0°, B, No, No, PI, SR @ 52.4'		
			54.0				54		526		DOLOMITE; gray; micritic to very fine grained (crystalline); fresh; very strong; hard; w/claystone partings (<0.1" thick) & moderately wide spaced stylolites; (Bass Islands Group).	Drill chatter @ 54.0'. Core barrel jammed @ 54.0'.	
							55		525		40°, J, No, No, PI, SR @ 54.9-55.2'		
HQ	5	5.0	5.0	3.3	100	66	56		524		very closely spaced stylolites @ 56.2-56.8'		
							57		523				
							58		522		85°, J, Ca, Pa, PI, SR @ 57.3-59.0' 0°, B, Ca, Pa, PI, SR @ 57.3', 57.7', 57.8' highly fractured @ 57.4-58.0' 40°, J, Ca, Pa, PI, SR @ 58.0'	Core loss @ 57.4-58.0'.	
			59.0				59		521				
							60		520		SHALE; black; platy; very fine grained; fresh; moderately strong; moderately hard;	Drill chatter @ 59.2'.	

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# BORING LOG

BORING NO. RB-C4

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>aw</i> Bonnie/Grainger/Mass		CHECKED BY <i>TS for</i> Dogbey/Mass	APPROVED BY <i>TS for</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	6	5.0	5.0	3.4	100	68	60		520		(Bass Islands Group). 0° B, No, No, Pl, SR @ 59.3'		
							61		519		DOLOMITE & SHALE; dolomitic; light gray & very dark gray, mottled; micritic to very fine grained; fresh; strong; hard; (Bass Islands Group). 20° J, No, No, Pl, S @ 59.6'		
							62		518		0° B, No, No, Pl, SR @ 60.0'		
							63		517		DOLOMITE; oolitic; light brownish gray; medium to coarse grained (crystalline); fresh; very strong; very hard; oolites 0.008-0.04"; (Bass Islands Group). 0° B, Ca, Pa, Pl, SR @ 62.4'	Drill chatter @ 63.0'.	
			64.0				64		516		40° J, No, No, Pl, SR @ 62.5-62.7' 70° J, Ca, Pa, Pl, SR @ 62.6-62.7' 140° J, No, No, Pl, R @ 62.8-62.9' 50° J, No, No, Pl, SR @ 62.9-63.1' 0° B, Cl, Fi, Pl, SR @ 62.9'	Core box #3 starts @ 63.6'.	
							65		515		20° J, No, No, Pl, SR @ 63.6-63.7'		
HQ	7	5.0	4.6	2.5	92	50	66		514		DOLOMITE; light brownish gray; micritic to very fine grained; fresh; strong; hard; w/black; platy; moderately strong; moderately hard; very closely spaced claystone partings; thickest parting 0.2"; (Bass Islands Group). 90° J, Ca, Pa, Pl, SR @ 64.3-65.7'	Drill chatter @ 66.0-69.0'.	
							67		513		0° B, Cl, Ca, Fi, Pl, SR @ 64.3', 64.5', 64.7', 65.4', 65.6', 65.9', 66.3'		
							68		512		90° J, Ca, Pa, Pl, SR @ 65.0-65.7'		
							69		511		20° J, Cl, Fi, Pl, SR @ 67.6'		
			69.0				70		510		40° J, Cl, Fi, Pl, SR @ 68.6'		
							71		509		0° B, Ca, Pa, Pl, SR @ 68.6, 68.8'		
HQ	8	5.0	5.0	2.2	100	44	72		508		90° J, VN, UK, Pl @ 68.6-68.7', 69.3-69.9'		
							73		507		highly fractured @ 69.4-69.5', 69.7-69.8'		
							74		506		highly fractured @ 70.3-70.4'		
			74.0				75		506		90° J, VN, Ca, Pa, Pl, SR @ 70.5-71.0'		
											highly fractured @ 70.8-71.6'		
											90° J, VN, Ca, Pa, Pl, SR @ 71.3-71.7'	Drill chatter @ 71.5'.	
											70° J, No, No, Pl, SR @ 71.9-72.0'		
											grades vuggy @ 72.0'		
											60° J, No, No, Ir, SR @ 72.3-72.4'		
											very closely spaced stylolites @ 72.4-72.6'		
											grades w/moderately wide spaced stylolites @ 72.6'		
											30° J, No, No, Pl, SR @ 72.6-72.8'		
											highly fractured @ 74.0-74.6'		
											50° J, No, No, Pl, SR @ 74.4'		
											30° J, Ca, Pa, Pl, SR @ 74.7-74.8'		

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# BORING LOG

BORING NO. RB-C4

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	9	5.0	4.4	0.7	88	14	75		505		60° ,J,No,No,PI,SR @ 75.3-75.4' 0° ,B,UK,Fi,PI,SR @ 75.5' 76		
							76		504		70° ,J,No,No,PI,SR @ 75.7-76.4' 90° ,J,No,No,PI,SR @ 76.3'		
							77		503		highly fractured @ 77.2-77.3' 10° ,J,CI,Fi,PI,SR @ 77.2' 10° ,J,No,No,PI,SR @ 77.3' 78		
							78		502		70° ,J,No,No,PI,SR @ 77.4-77.9' 0° ,B,CI,Fi,PI,SR @ 78.4' 90° ,J,Ca,Pa,PI,SR @ 78.4-78.9' 79		
							79		501		90° ,J,No,No,PI,SR @ 78.5' 50° ,J,Ca,Pa,PI,SR @ 78.7' highly fractured @ 78.8-79.0' 80	Water level @ 18.0' prior to drilling on 06/28/07. Core box #4 starts @ 79.0'. Core loss @ 80.5-80.7'.	
							80		500		very closely spaced stylolites @ 79.6-80.0'		
HQ	10	5.0	4.5	3.3	90	66	81		499		DOLOMITE; brecciated (healed); w/many closely spaced vugs & joints, irregular rough surfaces; vugs & joints filled w/about 0.5" calcite crystals & about 1-2" anhydrite crystals; (Bass Islands Group). brecciated (not healed) @ 80.8-81.1' 82		
							82		498		40° ,J,Ca/Mg,Pa,PI,SR @ 81.2-81.3'		
							83		497		DOLOMITE; light brownish gray; micritic to very fine grained; fresh; strong; hard; w/black; platy; moderately strong; moderately hard; very closely spaced claystone partings; thickest parting 0.2"; moderately wide to widely spaced stylolites; (Bass Islands Group). 84	Soft material @ 83.5'. Core loss @ 83.7-84.0'.	
							84		496		highly fractured @ 83.2-84.2' 0° ,B,UK,Pa,PI,SR @ 83.3' 90° ,J,No,Ir,R @ 83.3-85.1' (2, parallel) 85		
							85		495		highly fractured @ 84.9-85.1'		
HQ	11	5.0	5.0	2.4	100	48	86		494		10° ,J/B,No,No,PI,SR @ 86.4' grades pale brown; stylolites & vugs absent @ 86.5'		
							87		493		DOLOMITE; brecciated (healed); pale brown; w/shale partings; (Bass Islands Group). 88		
							88		492		SHALE; very dark gray; platy; very fine grained; slightly weathered; moderately strong; moderately hard; (Bass Islands Group). 89	Drill chatter @ 88.0'.	
							89		491		DOLOMITE; grayish brown; micritic to very fine grained (crystalline); fresh; strong; hard; (Bass Islands Group). 90		
							90		491		0° ,B,No,No,PI,SR @ 87.7'		

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# BORING LOG

BORING NO. RB-C4

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	12	5.0	5.0	3.7	100	74	90		490	70° J,Ca,Pa,Ir,SR @ 87.7-88.4', 87.8-87.9' banded w/shale @ 87.7-88.1'			
							91		489	0° B,UK,Pa,PI,SR @ 88.1' w/fossils (ostracodes) @ 88.1-88.4'			
							92		488	75° J,VN,UK,PI @ 88.4-88.8' highly fractured @ 88.8-89.5'			
							93		487	90° J,Ca,Pa,PI,SR @ 89.5-89.8'			
							94		486	90° J,VN,UK,Ir @ 90.3-91.0'			
							95		485	80° J,No,No,PI,SR @ 91.0-91.3'			
							96		484	30° J,Ci,Pa,PI,SR @ 91.8'			
							97		483	30° J,UK,Pa,St,SR @ 92.8'			
							98		482	90° J,VN,No,No,PI @ 93.0-93.4'			
							99		481	30° J,Ci,Pa,PI,SR @ 93.4-93.5'			
							100		480	DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).	No drilling fluid return @ 93.5'. Core box #5 starts @ 94.0'.		
							101		479	claystone lens @ 95.4'			
							102		478	60° J,Ca,Pa,PI,SR @ 95.4-95.5'			
							103		477	0° J,No,No,PI,SR @ 95.7', 96.9', 97.9'			
							104		476	10° J/B,Ci,Pa,PI,SR @ 96.2'			
							105		475	claystone parting; black; fresh; moderately strong; moderately hard @ 96.4-96.5'			
										DOLOMITE; gray, banded; micritic; fresh; strong; hard; w/gray, wavy, convoluted, very closely spaced claystone partings; (Bass Islands Group).			
										60° J,No,No,PI,SR @ 96.5-96.6'			
										highly fractured @ 96.9'			
										DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; moderately strong; hard; horizontal bands; w/gray claystone partings; (Bass Islands Group).	Drill chatter @ 98.5'.		
										80° J,Ca,Pa,PI,SR @ 99.0-100.1'			
										0° B,Ci,Fi,PI,SR @ 99.2'			
										highly fractured @ 101.1-101.2'			
										grades dark gray; w/very closely spaced claystone partings @ 101.3'			
										0° B,Ci,Fi,PI,SR @ 101.7'			
										10° B,Ci,Pa,PI,SR @ 102.4'			
										0° B,Ci,Fi,PI,SR @ 102.6', 103.1'			
										10° B,Ci,Pa,PI,SR @ 103.6'			
										0° B,Ci,Pa,PI,SR @ 104.3'			
										80° J,Ca,Pa,PI,SR @ 104.3-104.4'			
											Drill chatter @ 103.5'.		

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# BORING LOG

BORING NO. RB-C4

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie/Grainger/Mass</i>			CHECKED BY <i>Fin for Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	RECOVERY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RECOVERY						
HQ	15	5.0	5.0	2.5	100	50	105		475		0° B, No, No, PI, SR @ 104.6', 107.3' 0° B, Ca, Pa, PI, SR @ 104.9', 105.5' highly fractured @ 104.9-105.5' 60° J, No, No, PI, SR @ 105.5-105.6' grades light brownish gray; few claystone partings; moderately wide spaced stylolites @ 105.6' 15° J, Ca, Fi, PI, SR @ 105.9' 90° J, Ca, Pa, PI, SR @ 105.9-106.6'	Core loss @ 104.9-105.5'. Drill chatter @ 105.0'.	
			109.0				106		474				
							107		473				
							108		472		0° B, Ca, Pa, PI, SR @ 107.8'		
							109		471		90° J, Ca, Pa, PI, SR @ 108.7-111.4' 90° J, No, No, PI, SR @ 109.0-109.8'	Core box #6 starts @ 109.0'.	
HQ	16	5.0	5.0	1.4	100	28	110		470		0° B, No, No, PI, SR @ 109.4' 30° J, No, No, PI, S @ 109.4-109.7', 109.6-109.8' claystone bands; light gray; highly weathered; very weak; low hardness; w/angular fragments of dolomite @ 109.8-110.0', 110.7-110.9'		
							111		469		calcite parting; white; 0.1" thick @ 110.9'		
							112		468		<b>DOLOMITE</b> ; argillaceous; dark gray; vuggy; micritic; fresh to slightly weathered; strong; hard to very hard; w/stylolites; (Bass Islands Group). 90° J, Ca, Pa, WA, SR/R @ 111.8-113.7'		
							113		467				
			114.0				114		466		60° J, CI, Pa, PI, SR @ 114.0-114.3', 114.6-114.9' 60° J, W, CI, Fi, PI, SR @ 114.3-114.6'		
							115		465		50° J, CI, Pa, PI, SR @ 114.9-115.2'		
HQ	17	5.0	4.1	1.2	82	24	116		464		highly fractured; some claystone partings & lenses; thickest lens 1.2" @ 115.7-117.9'	Core loss of 0.9' @ 115.7-117.9'.	
							117		463				
							118		462		50° J, Ca, Pa, PI, SR @ 117.9-118.0' 120° J, Ca, Pa, PI, SR @ 117.9-118.0'		
			119.0				119		461		highly fractured @ 118.8-119.1'		
							120		461		0° J, UK, Pa, Ir, R @ 119.3'		



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# BORING LOG

BORING NO. RB-C4

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY TB for Bonnie Grainger/Mass		CHECKED BY TB for Dogbey/Mass	APPROVED BY F. Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	18	5.0	4.2	1.2	84	24	120		460				
							121		459			DOLOMITE; argillaceous; & SHALE; dolomitic; gray & dark gray, banded; vuggy; micritic to very fine grained; fresh to slightly weathered; strong; moderately hard to hard; w/claystone partings; (Salina Group - Unit F). 60°, J, Ca, Pa, PI, SR @ 121.3-121.9' claystone partings - 0°, B, PI, SR @ 121.9', 122.2', 122.3', 122.9', 123.2', 123.4', 123.7' 70°, J, Ca, Pa, PI, SR @ 122.6-122.8' 60°, J, Ca, Fi, PI, SR @ 123.1-123.4'	Core loss @ 120.5-121.3'.
							122		458				
							123		457				
							124		456			60°, J, No, No, PI, SR @ 124.3-124.5'	Core box #7 starts @ 124.0'.
							125		455				
HQ	19	5.0	4.2	0.7	84	14	126		454			DOLOMITE; argillaceous; & SHALE; dolomitic; gray; vuggy; micritic; fresh to moderately weathered; strong; moderately hard; w/lenses & partings of dolomitic & shaley limestone & anhydrite; (Limestone; gray; slightly weathered; very fine to fine grained; moderately strong; moderately hard; mostly lenses; Anhydrite; white; micritic; fresh to slightly weathered; moderately strong; moderately hard; mostly partings); (Salina Group - Unit F). highly fractured @ 125.7-125.9' 80°, J, CI, Fi, PI, SR @ 126.2-126.8' highly fractured @ 126.4-127.8' 20°, J, Ca, Pa, PI, SR @ 127.4-127.5' 60°, J, Ca, Pa, PI, SR @ 127.9-128.1'	Core loss in highly weathered, fractured rock.
							127		453				
							128		452				
							129		451				Water level @ 22.3' prior to drilling on 06/29/07. Core loss @ 129.4-134.0'.
							130		450			LIMESTONE; argillaceous; dark gray; vuggy; crystalline; very fine to fine grained; slightly to moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F). highly fractured @ 129.5-134.0'	
HQ	20	5.0	1.8	0.4	36	8	131		449				
							132		448				
							133		447			claystone band; gray; highly weathered; very weak; low hardness; w/highly fractured limestone partings @ 132.7-132.9'	
							134		446			0°, B, CI, Fi, PI, SR @ 133.0', 133.2'	Core loss throughout @ 134.0-149.0'.
							135		446				

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# BORING LOG

BORING NO. RB-C4

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 580.2 ft (NAVD 88) 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07
SAMPLING		LOGGED BY TB for Bonnie/Grainger/Mass	CHECKED BY TB for Dogbey/Mass	APPROVED BY Meyer

CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	21	2.5	0.0	0.0	0	0	135		445		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).	Soft drilling starts @ about 135.0'. Drilling water reduced to minimum. Bit clogged w/clay-like material.	
							136		444				
HQ	22	2.5	1.5	0.0	60	0	137		443		DOLOMITE; argillaceous; dark gray; vuggy; very fine grained (crystalline); fresh to slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F). 0° B, Cl, Pa, Pl, SR @ 137.2', 137.3', 137.5' 40° J, Ca, Pa, Pl, SR @ 138.3-138.5'		
							138		442				
HQ	23	2.5	0.0	0.0	0	0	139		441		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).		
							140		440				
HQ	24	2.5	1.0	0.0	40	0	141		439		dolomite fragments; dark grayish brown; very fine grained (crystalline); fresh; strong; hard @ 142.3-143.3'		
							142		438				
HQ	25	2.5	0.6	0.0	24	0	143		437		DOLOMITE; greenish gray; micritic to very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 90° J, Cl, Pa, Pl, SR @ 145.1-145.3'		
							144		436				
HQ	26	2.5	1.6	0.0	64	0	145		435		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).		
							146		434				
							147		433		CLAYSTONE; dolomitic; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F). dolomite fragments; argillaceous; gray; very fine grained (crystalline); fresh to slightly weathered; strong; moderately hard @ 147.1-148.2' 90° J, Ca/Cl, Pa, Pl, SR @ 148.1-148.3' 40° J, Ca/Cl, Pa, Pl, SR @ 148.3-148.5' 70° J, Ca/Cl, Fi, Pl, SR @ 148.3-148.5' 80° J, Cl, Fi, Pl, SR @ 149.0-149.4'		
							148		432				
							149		431		dolomite; argillaceous; gray; micritic; slightly weathered; moderately strong; moderately hard @		
							150						

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# BORING LOG

## BORING NO. RB-C4

## SHEET 11 OF 19

CLIENT <b>Detroit Edison</b>	PROJECT <b>Fermi 3 COL Application</b>		PROJECT NO. <b>147483</b>
PROJECT LOCATION <b>Monroe, MI</b>	COORDINATES <b>N 6188.9'</b>	GROUND ELEVATION (DATUM) <b>E 4448.8'</b>	TOTAL DEPTH <b>271.8 (feet)</b>
SURFACE CONDITIONS <b>Gravel parking lot near field</b>		COORDINATE SYSTEM <b>Plant</b>	DATE START <b>06/14/07</b>
		DATE FINISHED <b>07/13/07</b>	

LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING														
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
HQ	27	2.5	2.1	0.8	84	32	150		430		149.0-149.4', 149.7-149.9'			
							151		429				Core loss @ 151.1-151.5'	
							152		428					
HQ	28	2.5	1.8	0.0	72	0	153		427				Core loss @ 153.2-154.0'	
							154		426				Core box #8 starts @ 154.0'. Water level @ 21.4' prior to drilling on 07/10/07. Core loss throughout @ 154.0-161.5'.	
							155		425					
							156		424					
HQ	29	5.0	1.1	0.0	22	0	157		423					
							158		422					
							159		421					
HQ	30	2.5	1.4	0.0	56	0	160		420			claystone & sand; highly fractured; w/angular & subangular dolomite fragments @ 159.5-160.9'		
							161		419					
							162		418					
HQ	31	2.5	2.5	1.0	100	40	163		417			Poorly graded SAND (SP) - About 95% medium sand; about 5% low plasticity, low toughness, slow dilatancy, low to medium dry strength fines; bluish gray; loose; moist; strong reaction w/HCl; weak silt/clay cementation; grades coarser w/depth in layer; (Salina Group - Unit F).		
							164		416					
							165		415					
												CLAYSTONE; dolomitic; bluish gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).	Core loss @ 164.0-164.4'	
													CLAYSTONE; brecciated, broken; w/highly fractured dolomite partings; (Salina Group - Unit F).	



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# BORING LOG

BORING NO. RB-C4

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07
LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>F. S. Dogbey/Mass</i>	APPROVED BY <i>E. Meyer</i>	

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	32	2.5	2.1	0.0	84	0	165		415		dolomite band; gray; very fine grained; fresh; strong; moderately hard @ 163.8-164.0'		
							166		414		Silty SAND (SM) - About 85% fine sand; about 15% low plasticity, low toughness, slow dilatancy, low dry strength fines; bluish gray; loose; moist; strong reaction w/HCl; weak silt/clay cementation; grades coarser w/depth in layer; (Salina Group - Unit F).	Core barrel jammed @ 166.2'.	
HQ	33	2.5	1.5	0.0	60	0	167		413		CLAYSTONE; dolomitic; brecciated, broken; greenish gray; highly weathered; weak; low hardness; w/highly fractured dolomite partings; (Salina Group - Unit F). silty sand parting @ 166.2-166.3'		
							168		412		DOLOMITE; argillaceous; greenish gray; very fine grained; fresh; strong; moderately hard; highly fractured; (Salina Group - Unit F). 90° J, CI, Pa, PI, SR @ 167.8-168.0'	No recovery from run HQ-34 after two attempts.	
HQ	34	2.5	0.0	0.0	0	0	169		411		CLAYSTONE; dolomitic; brecciated, broken; greenish gray; highly weathered; weak; low hardness; w/highly fractured dolomite partings; (Salina Group - Unit F).		
							170		410				
							171		409				
HQ	35	2.5	0.5	0.0	20	0	172		408		BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dark gray; fresh; weak; moderately strong; moderately hard; w/angular clasts of dolomite; gray; very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). dolomite band; argillaceous; gray; fresh; moderately strong; moderately hard @ 172.9-173.0'	Core loss throughout @ 171.5-174.0'. Drill chatter @ 172.0'.	
							173		407				
							174		406				
HQ	36	2.5	0.0	0.0	0	0	175		405			Soft drilling; washout @ < 0.5' intervals @ 174.0-179.0'. Drill chatter @ 174.0'. Drill chatter @ 175.0'.	
							176		404				
							177		403				
HQ	37	2.5	0.0	0.0	0	0	178		402			Soft drilling; washout @ < 0.5' intervals @ 176.5-179.0'.	
							179		401				
							180		401		dolomite fragments; some vuggy; gray and brown; micritic; fresh to slightly weathered; moderately strong; moderately hard to hard @ 179.0-181.3'	Core loss @ 179.0-181.3'.	

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# BORING LOG

BORING NO. RB-C4

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	38	2.5	1.2	0.0	48	0	180		400				
							181		399				
			181.5				182		398			dolomite fragments; argillaceous; dark bluish gray; very fine grained; fresh; strong; moderately hard @ 181.3-181.5'	Core loss @ 181.5-187.9'
HQ	39	2.5	0.0	0.0	0	0	183		397				
			184.0				184		396				
HQ	40	2.5	0.8	0.0	32	0	185		395			dolomite fragments; argillaceous; greenish gray; some pitted; micritic; fresh; strong; moderately hard; highly fractured @ 184.9-185.7'	Drill chatter @ 184.5'
			186.5				186		394				
							187		393				
HQ	41	2.5	1.1	0.5	44	20	188		392			highly fractured zone; angular dolomite fragments @ 187.9-188.3'	
			189.0				189		391			<u>BRECCIA</u> - limestone clasts in a poorly to well indurated claystone matrix: claystone matrix; dolomitic; dark bluish gray; slightly to moderately weathered; moderately strong; moderately hard; w/ angular clasts of limestone; gray; vuggy; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). highly fractured @ 189.0-190.9'	Core loss @ 189.0-190.9'
HQ	42	2.5	1.1	0.0	44	0	190		390			grades w/fragments of angular dolomite @ 190.9-191.3'	
			191.5				191		389			dolomite; argillaceous; very dark gray; micritic; fresh; strong; moderately hard @ 191.3-191.6'	
							192		388			90° J, Ca, Pa, Pl, SR @ 191.3-191.6'	
HQ	43	2.5	2.5	1.0	100	40	193		387			claystone band; dolomitic; gray; highly weathered; very weak; low hardness @ 191.6-191.8'	
			194.0				194		386			<u>BRECCIA</u> - limestone & dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dark gray; slightly weathered; moderately strong; hard; w/ angular clasts of limestone & dolomite; (Salina Group - Unit F). some rounded, rip-up clasts of dolomite @ 192.1'	Core box #9 starts @ 193.4'
							195		386			moderately weathered; weak; low hardness @ 193.0-	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C4

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY Bonnie/Grainger/Mass		CHECKED BY Dogbey/Mass	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	44	2.5	1.6	0.8	64	32	195		385		193.4'		Core loss @ 195.2-196.1'.
							196		384				
HQ	45	2.5	2.5	0.5	100	20	196.5		383				HQ-45: took three attempts to recover core. Core barrel jammed @ 197.0', 197.5'.
							197		382				
							198		381				Core loss @ 199.0-200.9'.
							199		380				
							200		379				
HQ	46	5.0	3.1	1.9	62	38	199.0		378				
							201		377				
							202		376				
							203		375				
							204		374				
							205		373				
HQ	47	5.0	3.1	1.1	62	22	204.0		372				Core loss @ 204.0-206.0'.
							206		371				
							207		370				
							208		369				
							209		368				
							210		367				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

SAMPLING		LOGGED BY Bonnie Grainger/Mass	CHECKED BY Dogbey/Mass	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	48	5.0	5.0	3.2	100	64	210		370		mottled w/dolomite @ 209.9-210.1'	
							211		369		DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F). 0°, B/J, Ca, Pa, PI, SR @ 210.1'	
							212		368		0°, B/J, Ca, Fi, PI, SR @ 210.5', 210.6', 210.7', 210.8'	
							213		367		mottled w/limestone @ 210.8-210.9'	
							214		366		80°, J, Ca, Fi, WA, SR @ 211.1-211.5'	Core box #10 starts @ 212.2'.
							215		365		stylolites @ 211.8'	
							216		364		claystone bands; greenish gray; highly weathered; weak; low hardness @ 212.8-212.9', 213.4-213.6'	
							217		363		90°, J, Ca, Fi, PI, SR @ 212.9-213.4'	
HQ	49	5.0	5.0	2.6	100	52	214		366		LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F).	
							215		365		50°, J, Ca, Fi, PI, SR @ 214.0-214.1'	
							216		364		DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F).	
							217		363		30°, J, Ca, Pa, PI, SR @ 214.7-214.9'	
							218		362		LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F).	
							219		361		DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F).	
							220		360		20°, J, Ca, Fi, PI, SR @ 216.2'	
							221		359		grades light gray @ 216.5'	
							222		358		mottled w/limestone @ 217.0-217.1'	
							223		357		LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils (Salina Group - Unit F).	
							224		356		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							225		355		mottled w/limestone @ 218.3-218.7'	
HQ	50	5.0	4.8	1.6	96	32	219		361		SHALE; light gray; fine grained; extremely weathered; very weak; friable; some dilatancy; convoluted base contact; (Salina Group - Unit F).	
							220		360		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							221		359		claystone; dark gray; highly weathered; very weak; low hardness @ 220.1-220.5'	
							222		358		LIMESTONE; dark gray; vuggy; very fine grained; moderately weathered; strong; hard; (Salina Group - Unit F).	
							223		357		110°, J, Ca, Pa, PI, SR @ 220.8-221.4'	
							224		356		70°, J, Ca, Pa, PI, SR @ 221.4-221.7'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C4

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

SAMPLING		LOGGED BY TB for Bonnie Grainger/Mass	CHECKED BY TB for E.B. Dogbey/Mass	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	51	5.0	3.4	0.6	68	12	225		355		DOLOMITE; light brownish gray; micritic; fresh; very strong; moderately hard; (Salina Group - Unit F). claystone; dark gray; highly weathered; very weak; low hardness @ 224.0-224.3'	Core loss @ 225.4-227.0'	
							226		354		BRECCIA - dolomite & limestone clasts in a well indurated claystone matrix: claystone matrix; bluish gray; slightly weathered; moderately strong; hard; w/ angular clasts of dolomite & limestone; (Salina Group - Unit F).	Core box #11 starts @ 227.5'.	
							227		353		DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). 70° J, Ca, Pa, PI, SR @ 227.0-227.4'		
							228		352		90° J, Ca, Pa, PI, SR @ 227.0-227.4'		
							229		351		130° J, Cl, Pa, PI, SR @ 227.1-227.3'	PP = 0.1 TSF	
							230		350		70° J, Ca, Pa, PI, SR @ 227.5-227.8'	TV = 0.5 TSF @ 228.9-232.7'.	
							231		349		30° J, Cl, Pa, PI, SR @ 228.8'	Water level @ 20.1' prior to drilling on 07/12/07.	
HQ	52	5.0	2.4	0.4	48	8	232		348		CLAYSTONE; brecciated; dark gray; highly weathered; very weak; low hardness; some dilatancy; hydrocarbon odor; (Salina Group - Unit F).	Discrete sample 11-A collected @ 229.0-232.7'.	
							233		347		DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 20° J, Cl, Fi, PI, SR @ 233.0'	Discrete sample 11-B collected @ 232.7-233.0' for chemical analysis.	
							234		346		50° J, Ca, Fi, PI, SR @ 233.2-233.4'	Discrete sample 11-C collected @ 234.0-237.7'.	
							235		345		45° J, Cl, Fi, PI, SR @ 233.7-233.8'	PP = 1.3 TSF	
							236		344		130° J, Cl, Fi, PI, SR @ 233.7-233.8'; banding radiating outward from joint; banding offset in smaller cracks @ 233.6-233.8'	TV = 1.7 TSF @ 234.0-237.7'.	
HQ	53	5.0	2.1	1.2	42	24	237		343		CLAYSTONE; brecciated; dark gray; highly weathered; very weak; low hardness; some dilatancy; hydrocarbon odor; (Salina Group - Unit F).	Core loss @ 234.0-236.9'.	
							238		342		dolomite fragments; argillaceous; gray; slightly weathered; strong; moderately hard; highly fractured @ 238.2-239.0'	Discrete sample 11-D collected @ 237.7-238.2' for chemical analysis.	
							239		341		70° J, Cl, Pa, PI, SR @ 238.5-238.8'	Core loss @ 239.0-239.6'.	
							240		340		110° J, Cl, Pa, PI, SR @ 238.8'		
											DOLOMITE; light gray; micritic; fresh to slightly		

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C4

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY <i>Bonnie/Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	54	5.0	4.4	2.6	88	52	240		340		<p>weathered; very strong; moderately hard to hard; (Salina Group - Unit E). 0°,B,UK,Pa,PI,SR @ 239.9'</p> <p>argillaceous; highly fractured @ 240.1-240.7' claystone; brecciated; gray; highly weathered; very weak; low hardness @ 240.3-240.5' 30°,J,Ca,Pa,PI,SR @ 240.9-241.0', 241.3-241.4', 242.0-242.1'</p> <p>0°,B,UK,Pa,PI,SR @ 241.1', 241.6', 241.7', 241.9' very closely spaced stylolites; highly fractured @ 241.5-241.9'</p>		
							241		339				
							242		338				
							243		337				
							244		336		<p>DOLOMITE; light gray; pitted/vuggy; micritic; fresh; very strong; hard; w/fossils (ostracodes); fossils dissolve to form small pits; (Salina Group - Unit E). very closely spaced stylolites @ 242.5' 0°,B,No,No,PI,SR @ 243.2', 244.6'</p>		
HQ	55	2.7	2.6	1.9	96	70	245		335		<p>30°,J,Ca,Pa,PI,SR @ 245.4-245.6', 245.6-245.7'</p>		
							246		334				
							247		333				
HQ	56	2.3	2.3	0.7	100	30	248		332		<p>50°,J,Ca,Pa,PI,SR @ 246.2-246.3' claystone band; 0.4" thick @ 246.5'</p> <p>0°,B,No,No,PI,SR @ 247.7' gypsum parting; white; micritic; fresh; weak; low hardness @ 247.9' 10°,J,Gy,Fi,PI,S @ 248.0-248.1' stylolites @ 248.2' highly fractured @ 248.8-249.0'</p>	<p>Core box #12 starts @ 246.7'. Core barrel jammed @ 246.7'. Drill bit teeth stripped @ 246.7'. Pulled casing &amp; core barrel; replaced bit. Partial bit recovery in HQ-56. Core loss @ 246.7-247.0'. Added sand to sharpen new drill bit @ 249.0'</p>	
							249		331				
							250		330				
							251		329				
HQ	57	5.0	5.0	4.6	100	92	252		328		<p>many fossils replaced w/calcite or gypsum lenses @ 249.5-249.6', 250.1-250.2', 250.4-250.6' grades w/stylolites @ 249.9' 0°,B,No,No,PI,SR @ 250.1', 250.4', 250.5' gypsum parting @ 250.4' grades light brownish gray @ 250.6'</p>		
							253		327				
							254		326		<p>20°,J,No,No,PI,S @ 252.2'</p>	<p>Water level @ 20.7' prior to drilling on 07/13/07.</p>	
							255		325				<p>90°,J,VN,Ca,Fi,PI @ 253.6-255.0'</p> <p>Core loss @ 254.3-254.4'.</p>

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 580.2 ft (NAVD 88) 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

LOGGED BY Bonnie/Grainger/Mass		CHECKED BY Dogbey/Mass	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	58	5.0	4.9	2.9	98	58	255		325		highly fractured @ 255.0-256.1'		
							256		324		DOLOMITE; gray; micritic; fresh; very strong; very hard; w/gypsum, shale, & anhydrite partings that have a banded appearance; gypsum & anhydrite partings: white; micritic; fresh; moderately strong; moderately hard; shale partings: very dark gray; platy; fissile; very fine grained; fresh; moderately strong; moderately hard; partings/bands 0.1-1.2"; (Salina Group - Unit E). 0°,B,UK,Fi,PI,SR @ 256.3', 257.6', 257.8', 259.1'		
							259.0		321		grades w/interbedded gypsum w/convoluted boundaries @ 259.6'		
HQ	59	5.0	5.0	4.6	100	92	260		320		claystone band; dark gray; highly weathered; very weak; low hardness; hydrocarbon odor @ 260.1-260.2'	Discrete sample 12-A collected @ 261.0-261.2' for chemical analysis.	
							261		319		brecciated dolomite & claystone @ 261.8-262.0'		
							262		318		claystone band; light gray; highly weathered; very weak; low hardness; hydrocarbon odor @ 262.5-262.7'	Discrete sample 12-B collected @ 262.5-262.7' for chemical analysis. Core box #13 starts @ 262.7'.	
							263		317		30°,J,CI,Pa,PI,SR @ 262.8-262.9'		
							264.0		316		DOLOMITE; dark grayish brown; pitted; micritic; fresh to slightly weathered; strong; hard; w/gypsum partings & bands (0.1-0.6"); (Salina Group - Unit E). 0°,B,CI,Pa,PI,SR @ 264.4'		
							265		315		DOLOMITE; argillaceous; very dark gray, banded; very fine grained (crystalline); fresh; strong; moderately hard; few gypsum partings; some shale partings; (Salina Group - Unit E).		
HQ	60	5.3	5.3	4.5	100	85	266		314		0°,B,CI,Pa,PI,SR @ 265.2', 265.5'		
							267		313		grades w/very dark gray; platy; very fine grained; fresh; moderately strong; moderately hard shale bands @ 265.9'		
							268		312		DOLOMITE; dark grayish brown; micritic; fresh; strong; moderately hard; w/convoluted gypsum partings, bands, & beds up to 0.4' thick; gypsum partings/bands/beds; white; micritic; crystalline; fresh; weak; moderately hard; (Salina Group - Unit E).		
							269		311		thickest gypsum bed @ 268.9-269.3'		
							269.3		311				
							270		311				

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# BORING LOG

BORING NO. RB-C4

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6188.9'	GROUND ELEVATION (DATUM) E 4448.8'	TOTAL DEPTH 580.2 ft (NAVD 88) 271.8 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/13/07

SAMPLING		LOGGED BY <i>Bonnie/Grainger/Mass</i>	CHECKED BY <i>TB for Dogbey/Mass</i>	APPROVED BY <i>E. Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	61	2.5	2.4	2.4	96	96	270		310			
							271		309			
							272		308			Bottom of boring @ 271.8'. Water level @ 21.2' @ completion of drilling. Backfilled w/ bentonite chips on 09/19/07.
							273		307			
							274		306			
							275		305			
							276		304			
							277		303			
							278		302			
							279		301			
							280		300			
							281		299			
							282		298			
							283		297			
							284		296			
							285					



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C4a

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6193.4'	GROUND ELEVATION (DATUM) E 4445.3'	TOTAL DEPTH 6.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/14/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>	CHECKED BY E.M. for Dogbey/Bonnie <sup>TB</sup>	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
S	1		2.0			NR		0		580		<p>Poorly graded COBBLES - About 90% angular to subangular cobbles w/max. size 9"; about 5% sand; about 5% fines; dark reddish brown; dry; weak reaction w/ HCl; homogeneous; (Fill).</p>	<p>Boring advanced by vacuum excavation.</p>	
								1		579				
								2		578				<p>Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p>
								3		577				
								4		576				
								5		575				<p>@ about 6' unidentified material &amp; strange sound was noticed; re-started vacuum excavation. Could not determine source of strange sound. Boring was abandoned. New boring (RB-C4) started @ 3.5' east &amp; 4.5' south of RB-C4a.</p>
								6		574				<p>Bottom of boring @ 6.0'. Boring dry @ completion. Backfilled with cuttings on 06/14/07.</p>
								7		573				
								8		572				
								9		571				
								10		570				
								11		569				
								12		568				
								13		567				
								14		566				
								15						



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C5

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0					
								1		580			
								2		579			
								3		578			
S	1		3.5				NR	4		577			Discrete sample S1 collected.
								5		576			
			5.0					6		575			Vacuum excavation was down to 5.5'; hole collapsed to 3.5'.
								7		574			Below 3.5' continue w/4" ID continuous sonic sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	2						NR	8		573			Discrete sample S2 collected.
								9		572			
								10		571			
			10.0					11		570			
S	3						NR	12		569			Discrete sample S3 collected.
								13		568			
								14		567			
			14.0					15		566			Below 14.0' continue w/NWJ rods &

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C5

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Granger/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
TW	5					1.5	15		565				4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. Sample #4 was skipped in the numbering sequence.
							16		564				
							17		563		grades weak reaction w/HCl @ 17.0'		
							18		562				
							19		561				
SPT	6	4	6	13	19	1.5	20		560				Sandy Lean CLAY (CL) - About 69% LL=24, PL=14, slow dilatancy, high dry strength fines; about 31% fine to medium sand; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).
							21		559				
							22		558				
							23		557				
							24		556				
							25		555				
TW	7					1.0	26		554				Sandy Lean CLAY with Gravel (CL) - About 65% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 20% fine to coarse, angular to subrounded, hard sand; about 15% fine to medium, angular to subrounded, hard gravel; dark gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).  grades w/cobbles @ 26.5'
							27		553				
							28		552				
							29		551				
							29.0						Thin wall sampler refusal @ 26.5'
							30						Tricone refusal @ 29.0'

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# BORING LOG

BORING NO. RB-C5  
SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Grainger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	8					4	36		550				Below 29.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Set nominal 6" temporary steel casing to 33.4'. Below 34.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 34.0'. Water level @ 15.27' prior to drilling on 06/21/07.
HQ	1	1.5	1.1	0.75	73	50	34		546		DOLOMITE; crystalline; greenish gray; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group). 0°, J, VN, No, No, PI, SR @ 34.7', 35.3'		
			35.5				35		545		0°, J, VN, UK, Pa, PI, SR @ 36.05', 36.3', 36.45'		
HQ	2	5.0	5.0	2.8	100	56	36		544		70°, J, T, No, No, PI, R @ 36.8' 0°, J, VN, UK, Pa, PI, SR @ 37.1', 37.6'		
							37		543		60°, J, T, No, No, PI, SR @ 37.8-38.1' 0°, J, VN, UK, Pa, PI, SR @ 38.2', 38.6' 90°, J, T, No, No, WA, SR @ 38.6-38.8'		
							38		542		0°, J, VN, UK, Pa, PI, SR @ 39.2'		
							39		541		90°, J, T, No, No, WA, SR @ 39.9-40.3' 0°, J, VN, UK, Pa, PI, SR @ 40.0', 40.3'		
			40.5				40		540				
							41		539		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group). 0°, J, VN, UK, Pa, PI, SR @ 41.1' 90°, J, T, No, No, WA, SR @ 41.9-42.1', 43.3-43.6'		
							42		538				
HQ	3	5.0	5.0	1.4	100	28	43		537		highly fractured @ 43.4-43.9' 0°, J, VN, UK, Pa, PI, SR @ 43.5', 43.6'		
							44		536				
							45		536		DOLOMITE; gray & black; mottled; micritic; fresh; strong; hard; (Bass Islands Group).		

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# BORING LOG

BORING NO. RB-C5  
SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>for Grainger/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	4	5.0	5.0	3.2	100	64	45		535		shale parting @ 44.3' highly fractured @ 44.3-45.0' 90°, J, T, No, No, PI, SR @ 45.5-45.8'	Core box #2 starts @ 45.5'. Water level @ 16.2' prior to drilling on 06/25/07.
							46		534		0°, J, VN, No, No, WA, R @ 45.8', 46.2', 46.4' DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; 5% vugs; (Bass Islands Group).	
							47		533		0°, J, VN, No, No, WA, R @ 47.0', 47.5', 47.9' 90°, J, T, No, No, PI, SR @ 47.2-47.3'	
							48		532			
							49		531		0°, J, VN, No, No, WA, R @ 49.3', 49.6'	
							50		530		90°, J, T, No, No, PI, SR @ 50.0-50.3'	
							51		529		DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group). 90°, J, T, No, No, PI, SR @ 50.5-50.6', 50.7-51.1'	
							52		528		0°, J, VN, UK, Pa, WA, R @ 50.7' DOLOMITE; argillaceous w/stylolites; (Bass Islands Group).	
							53		527		80°, J, T, No, No, PI, SR @ 53.1-53.2'	
							54		526		DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group).	
							55		525		BRECCIA; healed; light gray; coarse to fine grained; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group).	
							56		524		0°, J, VN, UK, Pa, WA, R @ 56.0', 56.1' 50°, J, T, No, No, PI, SR @ 56.25-56.35'	
							57		523		DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).	
HQ	6	5.0	5.0	4.5	100	90	58		522		SHALE; very dark gray; fresh; weak; low hardness; (Bass Islands Group). DOLOMITE; oolitic; light brownish gray; fresh; strong; hard; (Bass Islands Group).	Core box #3 starts @ 58.9'.
							59		521		0°, J, T, No, No, PI, SR @ 58.9'	

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# BORING LOG

BORING NO. RB-C5

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>GB</i> Grainger/Bonnie <sup>JB</sup>		CHECKED BY <i>DB</i> Dogbey/Bonnie <sup>JB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	7	5.0	5.0	2.9	100	58	60.5		520		20°, J, T, No, No, PI, SR @ 60.5-60.7'		
									519		DOLOMITE; gray & black; mottled; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°, J, VN, UK, Pa, WA, R @ 61.5', 61.8'		
									518		85°, J, VN, No, No, PI, R @ 61.9-63.4' SHALE; black; (Bass Islands Group).		
									517		DOLOMITE; light brownish gray; strong; hard; w/stylolites & shale partings; (Bass Islands Group). 0°, J, VN, UK, Pa, WA, R @ 62.6', 62.9'		
									516		BRECCIA, healed; light gray; coarse to fine grained; fresh; strong; hard; argillaceous dolomite clasts & matrix; (Bass Islands Group). 0°, J, VN, UK, Pa, WA, R @ 63.5'		
									515		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/stylolites & shale parting; convoluted bedding; (Bass Islands Group). 0°, J, N, CI, Pa, WA, R @ 64.0'		
									514		20°, J, T, No, No, PI, SR @ 64.7-64.8' 0°, J, T, No, No, PI, SR @ 65.7', 66.1' highly fractured @ 66.5-67.0'		
									513		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/shale partings & stylolites; (Bass Islands Group). 10°, J, VN, UK, Pa, PI, SR @ 67.3' 0°, J, T, No, No, PI, SR @ 67.8', 68.1' highly fractured @ 68.5-70.0'		
									512				
									511				
									510				
									509		0°, J, T, No, No, PI, SR @ 71.0', 71.7' 10°, J, T, No, No, PI, SR @ 71.0'		
									508		0°, J, T, No, No, PI, SR @ 72.0'		
									507		60°, J, T, No, No, WA, R @ 72.5-73.0' 90°, J, T, No, No, PI, SR @ 72.8-73.0'	Core box #4 starts @ 72.6'	
									506		0°, J, T, No, No, PI, SR @ 74.4', 74.7', 74.8' 90°, J, N, CI, FI, WA, SR @ 74.5-76.1'		
									505				
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# BORING LOG

BORING NO. RB-C5

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>CO for Grainger/Bonnie TB</i>	CHECKED BY <i>CO for Dogbey/Bonnie TB</i>	APPROVED BY <i>CO for Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	10	5.0	4.8	3.5	96	70	75						
			75.5				76						
							77					0°,J,VN,UK,Fi,PI,SR @ 76.8', 77.7' 45°,J,T,No,No,PI,R @ 76.9-77.1'	
							78						
							79						
							80					10°,J,T,No,No,WA,R @ 79.3'	
							81						
			80.5				82						
							83						
HQ	11	5.0	5.0	3.2	100	64	84						
							85						
							86						
							87						
							88						
							89						
							90						

Core box #5 starts @ 86.1'.

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# BORING LOG

BORING NO. RB-C5  
SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Grainger/Bonnie</i> TB	CHECKED BY <i>Dodbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	13	5.0	4.5	4.0	90	80	90		490		10°, J, VN, UK, Pa, PI, R @ 90.9'		
							91		489		20°, J, N, CI, Pa, PI, R @ 91.5'		
							92		488				
							93		487				
							94		486		0°, J, T, No, No, PI, SR @ 94.2'		
							95		485		60°, J, VN, UK, Pa, WA, R @ 94.6-95.0'		
							96		484				
							97		483		10°, J, T, No, No, PI, SR @ 97.3', 97.5'		
HQ	14	5.0	4.8	2.3	96	46	98		482		0°, J, T, No, No, PI, SR @ 97.6', 97.7', 97.8', 97.9', 98.0'		
							99		481		0°, J, T, No, No, PI, SR @ 99.3'		
							100		480		DOLOMITE; grayish brown; micritic; fresh; strong; hard; massive; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 99.9', 100.0', 100.2'		
							101		479		50°, J, T, No, No, PI, SR @ 99.9-100.0'	Core box #6 starts @ 100.5'	
							102		478		90°, J, T, No, No, PI, SR @ 100.4-100.5'		
							103		477		0°, J, T, No, No, PI, SR @ 101.5'		
HQ	15	5.0	5.0	3.5	100	70	104		476		30°, J, T, No, No, WA, SR @ 101.6-101.9'		
							105		475		0°, J, T, No, No, PI, SR @ 102.7', 102.9', 103.1'		
									474		90°, J, T, No, No, PI, SR @ 102.9-103.0', 104.0-104.1'		
									473		0°, J, T, No, No, PI, SR @ 104.1', 104.4', 105.2'		

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# BORING LOG

BORING NO. RB-C5

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>SLB</i> Grainger/Bonnie TB	CHECKED BY <i>DF</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			105.5				105		475		60°, J, T, No, No, PI, SR @ 105.3-105.5'		
							106		474		90°, J, T, No, No, PI, SR @ 105.5-106.0'		
							107		473		60°, J, T, No, No, PI, S @ 105.8-106.2'		
HQ	16	5.0	4.8	1.8	96	36	108		472		40°, J, T, No, No, PI, SR @ 107.6-107.8'		
							109		471		0°, J, N, CI, Pa, PI, SR @ 108.2'		
			110.5				110		470		0°, J, T, No, No, PI, SR @ 109.2'		
							111		469		90°, J, VN, anhydrite, Pa, WA, R @ 109.5-110.5'		
							112		468		60°, J, T, No, No, PI, S @ 109.6-109.8'		
HQ	17	5.0	5.0	4.0	100	80	113		467				
							114		466				
							115		465		0°, J, T, No, No, WA, SR @ 114.5'		
							116		464		90°, J, VN, UK, Pa, WA, SR @ 114.5-115.5'		
			115.5				117		463		highly fractured @ 115.5-116.5'		
							118		462		90°, J, VN, Ca, Pa, WA, SR @ 117.1-117.6'		
HQ	18	5.0	3.6	0.7	72	14	118		461		DOLOMITE; dark gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	Core box #7 starts @ 114.2'.	
							119		460		0°, J, T, No, No, PI, SR @ 118.1', 118.2'		
							120		459		shale band (0.05' thick) @ 118.5'		
									458		0°, J, T, No, No, PI, SR @ 118.7', 118.9'		
									457		shale band (0.05' thick) @ 119.1'		
									456		0°, J, T, No, No, PI, SR @ 119.5', 119.7'		

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# BORING LOG

BORING NO. RB-C5

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>Boo</i> Grainger/Bonnie <sup>TD</sup>		CHECKED BY <i>Boo</i> Dogbey/Bonnie <sup>TD</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			120.5									shale band (0.05' thick) @ 119.8'	
												highly fractured @ 120.5-122.5'	
HQ	19	5.0	2.5	0.5	50	10						DOLOMITE; argillaceous; very dark brown; very fine grained; strong; hard; w/some anhydrite bedding & shale partings; (Salina Group - Unit F).	
												0°, J, T, No, No, PI, SR @ 124.2', 124.7', 125.2'	
HQ	20	5.0	2.8	0.6	56	12						0°, J, VN, No, No, PI, SR @ 126.7', 126.8'	
												0°, J, VN, No, No, PI, SR @ 127.4'	
												0°, J, VN, No, No, PI, SR @ 128.2', 128.4'	
												DOLOMITE; argillaceous; light brownish gray; fresh; strong; hard; (Salina Group - Unit F).	
												0°, J, VN, No, No, PI, SR @ 128.7', 128.9', 129.2', 129.5'	
												90°, J, VN, No, No, PI, SR @ 129.2-129.5'	
												LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
												90°, J, T, No, No, PI, SR @ 130.0-130.2'	Water level @ 20.5' prior to drilling on 06/26/07.
HQ	21	5.0	2.2	0.0	44	0						CLAYSTONE; bluish gray; weak; low hardness; w/interbedded dolomite; (Salina Group - Unit F).	
												DOLOMITE; bluish gray; micritic; moderately strong; hard; (Salina Group - Unit F).	
												highly fractured @ 134.5-135.5'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C5  
SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			135.5					135		445			Core box #8 starts @ 135.5'
HQ	22	5.0	1.7	0.5	34	10		136		444			
								137		443		CLAYSTONE; bluish gray; weak; low hardness; (Salina Group - Unit F).	
								138		442			
								139		441			
								140		440		LIMESTONE; dark greenish gray; micritic; strong; hard; (Salina Group - Unit F).	
HQ	23	2.5	1.5	0.0	60	0		141		439		DOLOMITE; bluish gray; micritic; strong hard; (Salina Group - Unit F).	
								142		438			
								143		437		CLAYSTONE; bluish gray; weak; low hardness; w/dolomite layers; (Salina Group - Unit F).	
HQ	24	2.5	1.0	0.0	40	0		144		436			
								145		435			
HQ	25	2.5	2.0	0.0	80	0		146		434			
								147		433		grades greenish gray @ 147.5'	
								148		432			
HQ	26	2.5	2.5	0.0	100	0		149		431		dark gray @ 149.0-149.2'	
								150		430			

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**BORING LOG**

BORING NO. RB-C5  
SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Bo</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>Bo</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORE SIZE	RUN RECOVERY						
HQ	27	5.0	3.0	0.0	60	0		150		430	[Pattern]	dark gray @ 150.2-150.4'	
			150.5					151		429	[Pattern]		
								152		428	[Pattern]		
								153		427	[Pattern]		
								154		426	[Pattern]	dolomite; gray @ 154.0-154.3'	
								155		425	[Pattern]	dolomite band; gray @ 154.9-155.1'	
			155.5					156		424	[Pattern]		Core box #9 starts @ 155.5'.
								157		423	[Pattern]		
HQ	28	5.0	3.5	0.0	70	0		158		422	[Pattern]	dolomite band; dark bluish gray @ 158.5-158.7'	
								159		421	[Pattern]		
								160		420	[Pattern]		
			160.5					161		419	[Pattern]		
								162		418	[Pattern]		
HQ	29	5.0	3.0	0.0	60	0		163		417	[Pattern]	dolomite band; dark bluish gray @ 163.4-163.6'	
								164		416	[Pattern]		
								165		415	[Pattern]		

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C5

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							165					dolomite; dark bluish gray @ 165.1-165.5'	
			165.5				166					BRECCIA; poorly indurated claystone matrix; gray; fresh; weak; low hardness; w/fragments of angular, dark bluish gray, strong, hard claystone; (Salina Group - Unit F).	
							167					dolomite @ 167.3-167.6'	
HQ	30	5.0	1.5	0.0	30	0	168						
							169						
							170						
			170.5				171						
HQ	31	2.5	1.0	0.0	40	0	172					0°, J, T, No, No, PI, SR @ 172.3'	
							173					DOLOMITE; (Bass Islands Group). 0°, J, VN, UK, Pa, PI, SR @ 172.8'	
			173.0				174					BRECCIA; poorly indurated claystone matrix; gray; fresh; weak; low hardness; w/fragments of angular, dark bluish gray, strong, hard claystone; (Salina Group - Unit F).	
HQ	32	2.5	1.3	0.0	52	0	175					dolomite band @ 174.3-174.5'	
							176					CLAYSTONE; dark bluish gray; weathered; weak; low hardness; (Salina Group - Unit F).	
			175.5				177						
HQ	33	2.5	0.9	0.0	36	0	178						
							179						
			178.0				180					LIMESTONE; crystalline; gray; micritic; fresh; strong; hard; 10% vuggy; (Salina Group - Unit F).	Core box #10 starts @ 179.0'

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# BORING LOG

BORING NO. RB-C5

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>BoB</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>BoB</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	35	5.0	3.0	1.3	60	26	180.5		180.5		90°, J, VN, No, No, WA, R @ 181.7-182.0' 0°, J, VN, No, No, PI, SR @ 182.2', 182.4'		
									183.5		grades light brownish gray @ 183.5'		
									184.7		SHALE; fissile; gray; weathered; very weak; low hardness; w/beds of very pale brown, micritic, low hardness, argillaceous dolomite & greenish, micritic; limestone; (Salina Group - Unit F)		
HQ	36	5.0	1.8	0.0	36	0	185.5		185.5				
HQ	37	2.5	0.7	0.0	28	0	190.5		190.5		limestone band; greenish gray @ 191.2-191.4'	Water level @ 23.9' prior to drilling on 06/27/07.	
HQ	38	2.5	1.0	0.0	40	0	193.0		193.0		dolomite; bluish gray @ 192.8-193.1'		
									194.3		dolomite; bluish gray @ 194.3-194.6'		

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# BORING LOG

BORING NO. RB-C5

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>Bonnie Granger</i> Granger/Bonnie <sup>7B</sup>		CHECKED BY <i>Bonnie Dogbey</i> Dogbey/Bonnie <sup>7B</sup>	APPROVED BY <i>EM Meyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			195.5					195		385			
HQ	39	2.5	1.3	0.0	52	0		196		384		LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 90°, J, VN, No, No, WA, R @ 197.0-197.3' 30°, J, VN, No, No, WA, R @ 197.5'	
			198.0					198		382			
HQ	40	2.5	1.0	0.0	40	0		199		381		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; w/interbedded limestone; (Salina Group - Unit F). 10°, J, VN, No, No, PI, SR @ 199.15'	
			200.5					200		380			
HQ	41	2.5	1.7	0.8	68	32		201		379		LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 90°, J, VN, UK, Pa, R @ 200.2-200.4'	
			203.0					202		378			
			205.5					203		377		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 10°, J, T, No, No, PI, SR @ 202.0' 40°, J, T, No, No, PI, SR @ 202.8' limestone band; greenish gray @ 202.8-203.0'	Core box #11 starts @ 203.0'
HQ	42	2.5	2.0	0.0	80	0		204		376		CLAYSTONE; gray; fresh; weak; low hardness; w/ limestone beds; (Salina Group - Unit F).	
			205.5					205		375			
								206		374		LIMESTONE; dark greenish gray; micritic; fresh; strong; moderately hard; 20% pitted; 5% vuggy; (Salina Group - Unit F).	
								207		373		60°, J, VN, No, No, PI, R @ 207.3-207.5', 208.5-208.7'	
HQ	43	5.0	3.0	0.45	60	9		208		372		grades greenish gray @ 208.0' 40°, J, VN, No, No, PI, R @ 208.1-208.3'	
								209		371			
								210		371			

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# BORING LOG

BORING NO. RB-C5

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6'192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>Granger/Bonnie</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			210.5				210						
HQ	44	5.0	4.0	2.0	80	40	213					0° J,VN,No,No,WA,R @ 212.1', 212.2'	
							215					60° J,T,No,No,PI,SR @ 214.6'	
			215.5				216					60° J,VN,Ca,Pa,PI,SR @ 215.0-215.5'	
HQ	45	5.0	4.8	2.8	96	56	218					LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							220					60° J,VN,No,No,PI,R @ 219.9'	Core box #12 starts @ 219.7'.
			220.5				221					BRECCIA; healed; grayish brown; fine to coarse grained; (Salina Group - Unit F).	
HQ	46	5.0	4.5	1.1	90	22	223					DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							224					CLAYSTONE; dark bluish gray; weathered; weak; low hardness; (Salina Group - Unit F).	
							225					DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							225					LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).	

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# BORING LOG

BORING NO. RB-C5

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Boyle</i> Grainger/Bonnie TB	CHECKED BY <i>Boyle</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER						
		225		355		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
		225.5		354			
		226		354			
		227		353		breccia band; grayish brown @ 227.3-227.5'	
HQ	47	5.0	4.2	1.7	84	34	20°, J, T, VN, UK, R @ 227.7-227.9'
		228		352		30°, J, VN, UK, Pa, PI, SR @ 228.4'	
		229		351		60°, J @ 228.6-228.8'	
		229.0		351		BRECCIA; healed; grayish brown; fine to coarse grained; fresh; moderately strong; hard; (Salina Group - Unit F).	
		230		350		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
		230.5		350			
		231		349			
		232		348		BRECCIA; healed; grayish brown; fine to coarse grained; fresh; (Salina Group - Unit F).	
HQ	48	5.0	1.0	0.0	20	0	
		233		347		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
		234		346			
		235		345		LIMESTONE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
		235.5		345			
		236		344		CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	
HQ	49	2.5	1.0	0.0	40	0	
		237		343		DOLOMITE; gray; micritic; strong; hard; (Salina Group - Unit F).	
		237		343		90°, J, T, No, No, PI, SR @ 236.6-237.2'	
		238		342		CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	
		238.0		342		LIMESTONE; gray; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).	
		239		341			
HQ	50	2.5	2.3	0.0	92	0	
		239.0		341		DOLOMITE; shaley; light gray; micritic; fresh; strong; hard; w/ostracodes; (Salina Group - Unit E).	
		240		341			

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# BORING LOG

BORING NO. RB-C5  
SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	51	5.0	4.8	3.4	96	68	240				90°, J, T, No, No, PI, SR @ 240.0-240.2'	Core box #13 starts @ 240.5'.	
							240.5				90°, J, T, No, No, PI, SR @ 240.8-241.0' 0°, J, VN, No, No, WA, SR @ 240.8', 240.9', 241.0'		
							241						
							242				0°, J, VN, UK, Pa, SR @ 242.0'		
							243						
							244				60°, J, T, No, No, PI, SR @ 243.7-244.3' 0°, J, VN, No, No, WA, SR @ 244.1', 244.3' 50°, J, T, UK, Pa, PI, R @ 244.4-244.7'		
							245						
							245.5				clay band; white @ 245.6-245.7'		
							246						
							247				10°, J, VN, No, No, PI, SR @ 246.4', 246.5'		
HQ	52	5.0	4.8	2.8	96	56	248				0°, J, VN, No, No, PI, SR @ 247.5', 248.0' 10°, J, VN, No, No, PI, SR @ 247.6'	~ 1.0' core loss @ 253.7-258.7'.	
							249				45°, J, T, No, No, PI, R @ 249.0-249.1'		
							250				10°, J, VN, No, No, PI, SR @ 250.0', 250.1'		
							251						
							252						
							253						
							254				10°, J, VN, UK, Pa, R @ 253.5' 10°, J, VN, No, No, PI, SR @ 253.7'		
							255						



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C5

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

LOGGED BY <i>Booper</i> Grainger/Bonnie		CHECKED BY <i>DB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			255.5				255		325				Core box #14 starts @ 255.5'.
							256		324			DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). 0°, J, VN, CI, Pa, PI, SR @ 256.2'	
							257		323			90°, J, VN, anhydrite, Fi, PI, SR @ 256.3-257.1' 10°, J, T, CI, Pa, PI, SR @ 257.2'	
HQ	54	5.0	4.7	4.0	94	80	258		322			anhydrite @ 257.9-258.0'	
							259		321			0°, J, VN, CI, Pa, PI, SR @ 258.5', 259.0'	
							260		320			DOLOMITE; w/interbedded anhydrite; (Salina Group - Unit E). 10°, J, T, CI, Pa, PI, SR @ 259.7'	
			260.5				261		319			DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E).	
							262		318			ANHYDRITE; light gray; micritic; fresh; weak; low hardness; w/interbedded black shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Pa, PI, SR @ 260.2'	
HQ	55	5.0	5.0	NR	100	NR	263		317			ANHYDRITE; light gray; micritic; fresh; weak; low hardness; w/intermingled dolomite; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E).	
							264		316			DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).	
							265		315			DOLOMITE; light gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E).	
			265.5				266		314			ANHYDRITE; light gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit E).	
							267		313			DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).	
HQ	56	5.0	5.0	4.7	100	94	268		312			ANHYDRITE; light gray; micritic; fresh; strong; moderately hard; banded; (Salina Group - Unit E).	
							269		311			DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale & anhydrite partings; (Salina Group - Unit E). grades banded w/anhydrite @ 267.1'	
							270					ANHYDRITE; light gray; micritic; fresh; strong; (Salina Group - Unit E). intermingled w/dolomite; light brownish gray @ 268.5-268.7'	Core box #15 starts @ 269.1'.

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BORING LOG

BORING NO. RB-C5  
SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4525.7'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/28/07

SAMPLING			LOGGED BY <i>[Signature]</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>[Signature]</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>[Signature]</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
SAMPLE TYPE	SAMPLE NUMBER									
SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING					DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY						
					270					
					271				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/anhydrite banding; (Salina Group - Unit E).	Bottom of boring @ 270.5'. Water level @ 23.5' @ completion of drilling. Boring caved @ 158.4'. Cleared casing. Backfilled w/ bentonite chips to 37.5' below ground surface on 09/08/07. Continued w/ bentonite chips to 6' below ground surface, then gravel to surface.
					272				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E).	
					273					
					274					
					275					
					276					
					277					
					278					
					279					
					280					
					281					
					282					
					283					
					284					
					285					

4/29/2008 4:40 PM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C6

SHEET 1 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>GEO</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>GEO</i> Dogbey/Ohlmacher		APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0					
								1		580			
			2.0					2		579			
S	1					2.0		3		578			
								4		577			
			5.0					5		576			
								6		575			
S	2					2.0		7		574			
								8		573			
								9		572			
			10.0					10		571			
								11		570			
S	3					3.7		12		569			
								13		568			
								13.4		568		ORGANIC Soil (OL); very dark gray; moist; organic decomposition odor	
								12.5		568		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; firm; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
			14.0					14		567			
								15		566			

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>6 cc</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>6 cc</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	4	3	4	4	8	0.2	15		565				Below 14.0' continued w/4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.
							16		564				
							17		563				
							18		562				
							19		561				
							20		560				
TW	5					1.6	21		559				
							22		558				
							23		557				
							24		556				
							25		555				
SPT	6	13	16	19	35	1.3	26		554				
							27		553				
							28		552				
							29		551				
							30		551				

Lean CLAY (CL) - About 95% medium plasticity, medium toughness, slow dilatancy fines; about 5% fine sand; dark grayish brown; firm; moist; strong reaction w/HCl; (Glacial Till).

0.1' fine sand seam @ 22' (bottom of tube)

Sandy lean CLAY (CL) - About 65% medium plasticity, medium toughness, slow dilatancy, very high dry strength fines; about 25% fine to coarse, rounded, hard sand; about 10% fine, subangular, hard gravel w/max. size 3/4"; dark gray; hard; moist; homogeneous; (Glacial Till).

DOLOMITE; crystalline; dark gray; micritic; fresh; very Tricone refusal @ 29.5'.

5/23/2008 10:46 AM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C6  
SHEET 3 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>GC</i> for <i>TB</i> for Grainger/Mass/Ohlmacher		CHECKED BY <i>GC</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	7					4.2	30					strong; very hard; (Bass Islands Group).	Below 29.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. S-7 labeled S1.
PQ	1	1.8	33.7	1.7	0.5	94	34					<u>DOLOMITE</u> ; argillaceous; dark grayish brown; very fine grained; very strong; hard; w/stylolites; (Bass Islands Group). highly fractured @ 34.0-34.7' 80°, J, No, No, PI, SR @ 34.7-35.0' 0°, B, UK, Fi, PI, SR @ 35.3', 36.5', 36.8'	Set nominal 6" temporary steel casing to 33.4'. Water level @ 20.3' prior to drilling on 08/29/07. Core box #1 starts @ 33.7'. Below 33.7' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.
PQ	2	5.0	35.5	5.0	4.0	100	38					<u>DOLOMITE</u> ; olive gray; very fine grained (crystalline); fresh; very strong; hard; w/shale partings; (Bass Islands Group). 0°, B, UK, Fi, PI, SR @ 37.0' 90°, J, Ca, Pa, PI, SR @ 37.2-37.5' 85°, J, Ca, Pa, PI, SR @ 37.6-38.3'	No drilling fluid return @ 39.0'.
PQ	3	5.0	40.5	5.0	2.4	100	43					90°, J, Ca, Pa, WA, SR @ 38.7-39.3' argillaceous dolomite beds @ 38.8-39.3', 40.2-40.7' highly fractured @ 39.9-40.5'	Core box #2 starts @ 42.8'.
							41					<u>DOLOMITE</u> ; vuggy; light gray; very fine grained (crystalline); slightly weathered; very strong; hard; vugs 0.04-0.4"; some filled w/anhydrite; (Bass Islands Group). 0°, B, No, No, PI, SR @ 40.7'	
							42					<u>DOLOMITE</u> ; argillaceous; mottled dark gray & very dark gray; micritic; fresh to slightly weathered; very strong; very hard; (Bass Islands Group). 30°, J, No, No, WA, SR @ 41.9-42.2' 30°, J, CI, Fi, PI, SR @ 42.2-42.3' highly fractured @ 43.0-43.7', 44.5-44.7' 40°, J, Ca, Pa, PI, SR @ 43.0-43.2' 90°, J, No, No, PI, SR @ 43.5-44.3' light gray dolomite band @ 43.8-43.9' 20°, J, No, No, St, SR @ 43.9-44.0' 0°, B, No, No, PI, SR @ 44.3, 44.4'	

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# BORING LOG

BORING NO. RB-C6

SHEET 4 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>GCO</i> TB for Grainger/Mass/Ohlmacher		CHECKED BY <i>GCO</i> For Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	4	5.0	5.0	4.1	100	82	45				DOLOMITE; dark grayish brown; pitted; very fine grained (crystalline); fresh; strong; very hard; w/shale partings & fossils (mollusks); (Bass Islands Group). 0°, B, No, No, PI, SR @ 45.2' dark gray @ 45.5-46.8' shale partings - 0°, B, PI, SR @ 46.0', 46.1' 80°, J, Ca, Pa, PI, SR @ 46.1-46.5' 80°, J, No, No, PI, SR @ 46.4-46.8' shale parting - 0°, B, WA, SR @ 46.8' w/very closely spaced stylolites @ 46.8-46.9' w/vugs, most elongated; up to a max. 1.2" diameter; some filled w/large (up to 0.4") anhydrite crystals @ 47.5-48.2' 0°, B, No, No, PI, SR @ 47.7', 48.5', 49.8' 20°, J, CI, FI, PI, SR @ 49.3-49.4'	
PQ	5	5.0	5.0	4.9	100	98	50				DOLOMITE; light gray; micritic; fresh; very strong; very hard; w/zones of very closely spaced stylolites; moderately wide spaced stylolites throughout; (Bass Islands Group). 0°, B, No, No, WA, SR @ 52.3' 50°, J, No, No, PI, SR @ 53.2-53.5'	Core box @3 starts @ 51.4'
PQ	6	5.0	5.0	4.4	100	88	55				DOLOMITE & DOLOMITE; argillaceous; mottled dark grayish brown & grayish brown; pitted; micritic; fresh to slightly weathered; very strong; very hard; (Bass Islands Group). 90°, J, T, PI @ 54.4-55.0', 54.4-54.9' 0°, B, UK, FI, PI, SR @ 54.5'	Drill chatter @ 55.0-55.5'
							56				DOLOMITE; argillaceous; gray & dark gray; micritic; fresh; very strong; very hard; banded; (Bass Islands Group). 90°, J, No, No, PI, SR @ 55.2-55.7'	
							57				DOLOMITE & SHALE dolomitic; mottled greenish gray & black; micritic; fresh; very strong; hard; intermingled w/silt; about 100% low plasticity, low toughness, slow dilatancy fines; gray; soft; moist; no hydrocarbon odor; strong reaction w/HCl; homogeneous; (Bass Islands Group). 90°, J, T, PI, SR @ 55.8-57.8'	
							58				DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; strong; hard; oolites 0.02-0.04" diameter; (Bass Islands Group). 0°, J, No, No, PI, SR @ 56.5', 57.2', 59.6' 70°, J, T, PI, SR @ 57.0-57.6'	



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C6  
SHEET 5 OF 17

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6192.8'					E 4606.0'					580.8 ft (NAVD 88)		240.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/14/07		09/19/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Geo. For 73 for Grainger/Mass/Ohlmacher					Geo Dogbey/Ohlmacher					Geo Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS		REMARKS								
											CORE SIZE	RUN NUMBER		RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD			
PQ	7	5.0	5.0	2.4	100	48	60		520		80°, J, No, No, PI, SR @ 60.2-60.4'	Core box #4 starts @ 59.9'									
							61		519		thin dolomite bed; argillaceous; gray; very fine grained (crystalline); fresh; very strong; hard; banded @ 60.2-60.5'										
							62		518		shale band; very dark gray; micritic; highly weathered; weak; low hardness @ 60.5-60.7'										
							63		518		clay band; about 100% high plasticity, low toughness, no dilatancy fines; gray; soft; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 60.7-60.8'										
							64		517		DOLOMITE; light gray; micritic; fresh; very strong; hard; banded; w/closely spaced shale partings; black; fresh; very strong; very hard; (Bass Islands Group). shale partings - 0°, B, PI, SR @ 60.9', 61.4', 61.9', 62.3', 62.4', 62.9'										
							65		516		80°, J, No, No, PI, SR @ 61.4-62.7'										
							66		515		brecciated; healed; w/wavy convoluted shaley partings @ 61.6-62.9'										
PQ	8	2.5	2.5	0.3	100	12	66		514		DOLOMITE; light gray & gray; micritic; fresh; very strong; very hard; banded; laminated; w/shale partings; (Bass Islands Group). shale partings - 0°, B, PI, SR @ 64.0', 64.4', 64.7', 65.2'										
							67		513		80°, J, No, No, PI, SR @ 64.2-64.7'										
							68		512		clay band; about 100% medium plasticity, low toughness, slow dilatancy fines; white; firm; moist; no odor; strong reaction w/HCl; homogeneous @ 65.7-65.8'										
							69		511		30°, J, CI, FI, PI, SR @ 65.8-65.9'										
PQ	9	2.5	2.5	1.7	100	68	69		510		0°, B, UK, FI, PI, SR @ 66.1'	Core box #5 starts @ 68.0'. Core barrel blocked @ 68.0'.									
							70		509		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, CI, PA, WA, SR @ 66.5-67.3'										
							71		508		0°, B, UK, FI, PI, SR @ 66.5', 66.8'										
							72		507		highly fractured @ 67.3-67.5'										
							73		506		70°, J, No, No, PI, SR @ 67.5-67.7'										
							74		506		silt band; about 100% low plasticity, low toughness, rapid dilatancy fines; white; soft; moist; strong hydrocarbon odor; strong reaction w/HCl; homogeneous @ 67.7-67.8'										
							75		506		highly fractured @ 67.8-68.0'										
											90°, J, CI, FI, PI, SR @ 68.1-68.3' (2 parallel joints)										
											pitted @ 68.3-68.6'										
											DOLOMITE; light gray (2 shades); pitted; very fine grained (crystalline); fresh; very strong; hard; banded; w/closely spaced stylolites; pits 0.004-0.08"; (Bass Islands Group). very closely spaced stylolites @ 68.6-69.2'										
											highly fractured @ 69.9-70.1'										
											0°, B, No, No, PI, SR @ 71.6'										
											very closely spaced stylolites @ 74.7-74.8'										



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# BORING LOG

BORING NO. RB-C6

SHEET 6 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

SAMPLING		LOGGED BY <i>GEO</i> for <i>MS</i> for Grainger/Mass/Ohlmacher	CHECKED BY <i>GEO</i> <i>MS</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							75				10°,B,No,No,WA,SR @ 75.0' shale partings @ 75.2-75.3'	Core box #6 starts @ 75.5'
			75.5				76		505		very closely spaced stylolites @ 76.0-76.3'	
PQ	11	3.0	3.0	1.9	100	63	77		504		0°,J,Ci,Pa,PI,SR @ 77.1' 70°,J,Ci,Fi,PI,SR @ 77.3-77.6'	Water level @ 20.35' prior to drilling on 08/30/07.
							78		503		silt band; about 100% low plasticity, low toughness, slow dilatancy fines; gray; firm; moist; slight hydrocarbon odor; strong reaction w/HCl;	Core barrel jammed @ 78.5'
			78.5				79		502		homogeneous @ 77.9-78.0' grades light olive gray @ 78.4' shale parting - 0°,B,Fi,PI,SR @ 78.8' 30°,J,No,No,PI,SR @ 78.9-79.2'	
PQ	12	2.0	2.0	0.4	100	20	80		501		DOLOMITE; light gray & gray; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20°,J,No,No,PI,SR @ 79.2', 79.3' 0°,B,UK,Fi,PI,SR @ 79.8', 80.5' 90°,J,No,No,St,R @ 79.8-80.7' highly fractured @ 80.5-80.8' shale parting - 20°,B,Fi,PI,SR @ 81.0'	
							81		500			
PQ	13	2.5	2.5	1.3	100	52	82		499		DOLOMITE; brecciated (healed); light brownish gray & grayish brown; pitted; micritic; slightly weathered; very strong; very hard; (Bass Islands Group). shale parting - 0°,B,WA,SR @ 81.3,81.4' 70°,J,No,No,PI,R @ 81.7-82.4'	Core barrel blocked @ 83.0'. Core box #7 starts @ 83.2'.
							83		498			
			83.0				84		497		SHALE; very dark gray & black; laminated; slightly weathered; strong; hard; (Bass Islands Group). highly fractured @ 82.3-82.5' thin dolomite bed; argillaceous; gray; micritic; fresh; very strong; very hard @ 82.9-83.3' 30°,J,No,No,PI,SR @ 83.1-83.4'	
PQ	14	2.5	2.5	1.5	100	60	85		496		DOLOMITE; light gray & grayish brown; very fine grained (crystalline); slightly weathered; strong; hard; (Bass Islands Group). highly fractured @ 83.3-83.4' 0°,B,No,No,PI,SR @ 84.1' 30°,J,No,No,PI,SR @ 84.6-84.8', 85.1-85.3'	
							86		495			
			85.5				87		494		DOLOMITE; argillaceous; light brownish gray; very fine grained (crystalline); slightly weathered; very strong; hard; (Bass Islands Group). 40°,J,Ci,Fi,PI,SR @ 85.5-85.6' 110°,J,Ci,Fi,PI,SR @ 85.5-85.6' 60°,J,No,No,PI,SR @ 86.0-86.4' shale parting - 10°,B,PI,SR @ 86.9' 70°,J,anhydrite,Pa,PI,SR @ 87.0-87.4' shale parting - 10°,B,PI,SR @ 87.8' 90°,J,anhydrite,Pa,PI,SR @ 87.8-89.0', 89.5-89.9' 60°,J,No,No,PI,SR @ 88.9-89.3', 89.2-89.5', 89.8-	
							88		493			
PQ	15	5.0	5.0	0.7	100	14	89		492			
							90		491			



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C6

SHEET 7 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY Grainger/Mass/Ohlmacher		CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	16	5.0	5.0	1.9	100	38	90		90.0'				
			90.5				91		490				Core box #8 starts @ 90.5'
							92		489				
							93		488				
							94		487				
							95		486				
PQ	17	5.0	4.6	2.7	92	54	96		485				
			95.5				97		484				
							98		483				
							99		482				
							100		481				Core box #9 starts @ 99.2'
							101		480				
							102		479				
PQ	18	5.0	5.0	3.2	100	64	103		478				
							104		477				
							105		476				

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# BORING LOG

BORING NO. RB-C6  
SHEET 8 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>GCO</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>GCO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			105.5					105		475		pyrite & argillaceous fracture filling @ 105.2-105.3'	
								106		474		0°,B,N,UK,Su,PI,SR @ 106.0',106.6',106.9'	
								107		473		85-90°,J,T,Ca,Pa,Ir,VR @ 106.6-108.9'	
PQ	19	5.0	4.5	2.8	90	56		108		472		DOLOMITE; argillaceous; grayish brown; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,B,N,UK,Su,PI,SR @ 107.1',107.6'	
								109		471		fractured @ 108.2-108.8'	
								110		470		0°,B,MW,Ca,Fi,PI @ 108.9'	
			110.5					111		469		60°,J,MW,solutioned @ 111.1-111.3'	
								112		468			
PQ	20	5.0	3.8	3.7	76	74		113		467			
								114		466		SHALE; very dark gray; fissile; slightly weathered; weak; low hardness; (Salina Group - Unit F). 10°,B,T,UK,Su,Ir,R @ 113.8'	
								115		465		DOLOMITE; argillaceous; banded gray (2 shades); micritic; slightly weathered; strong; hard; vuggy; (Salina Group - Unit F). 80-90°,J,N,No,No,Ir,R @ 114.7-118.0', 118.5-119.5', 119.7-120.5'	
PQ	21	2.5	2.5	0.4	100	16		116		464		fractured @ 116.7'	
								117		463			
			118.0					118		462			
PQ	22	2.5	2.3	0.4	92	16		119		461		0°,B,N,No,No,Ir,R @ 118.5', 119.3', 119.4', 119.7', 116.0'	
								120		461			

Core box #10 starts @ 108.4'.

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# BORING LOG

BORING NO. RB-C6

SHEET 9 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY Grainger/Mass/Ohlmacher		CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	23	1.0	1.0	0.0	100	0	120.5		460				Core box #11 starts @ 120.5'. Water level @ 21.3' prior to drilling on 08/14/07. NQ core barrel used @ 121.5-126.5' for pressuremeter testing. After testing interval reamed with PQ core barrel.
			121.5				121		459		DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; very strong; banded; (Salina Group - Unit F). highly fractured @ 121.5-125.0'		
NQ	24	5.0	2.7	0.0	54	0	124		457		anhydrite veins, beds & bands @ 123.0-123.8'		
			126.5				125		456		DOLOMITE; light gray; pitted; fine grained; slightly weathered; strong; hard; parting; some oolites (5-15%); (Salina Group - Unit F). 0°, V, MW, Ca, Fi, WA, SR @ 125.3'		
			126.5				126		455		0°, B, T, No, No, Pl, S @ 126.3', 126.8' grades w/no pits @ 126.3'		
PQ	25	4.0	4.0	2.0	100	50	127		454		DOLOMITE; argillaceous; bluish gray; micritic; fresh; very strong; hard; banded; (Salina Group - Unit F).	127.0-127.8' claystone wrapped in plastic	
			127.8				128		453		CLAYSTONE; bluish gray; fresh; extremely weak; soft; massive; (Salina Group - Unit F).		
			127.8				129		452		SHALE; calcareous; banded grayish brown to bluish gray; fissile; fresh; weak; low hardness; (Salina Group - Unit F).		
			129.8				130		451		CLAYSTONE; bluish gray; fresh; extremely weak; low hardness; massive; (Salina Group - Unit F).		
			130.5				131		450		SHALE; bluish gray; fissile; fresh; weak; low hardness; (Salina Group - Unit F).		
			130.7				132		449		CLAYSTONE; calcareous; bluish gray; fresh; strong; moderately hard; massive; (Salina Group - Unit F). 0°, J, T, No, No, WA, S @ 131.6', 131.8', 132.4'	Core box #12 starts @ 131.9'.	
PQ	26	5.0	5.0	2.5	100	50	133		448		SHALE; calcareous; bluish gray; fissile; fresh; weak; low hardness; banded; (Salina Group - Unit F). highly fractured @ 133.3-134.4'		
			132.8				134		447				
			134.7				135		446				Discrete sample 12A taken from PQ26 @ 134.7-135.5'.

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# BORING LOG

BORING NO. RB-C6

SHEET 10 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

SAMPLING		LOGGED BY <i>Geo for TB for</i> Grainger/Mass/Ohlmacher	CHECKED BY <i>Geo</i> Dogbey/Ohlmacher	APPROVED BY <i>Geo</i> Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET INCHES	2ND INCHES	3RD INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	27	1.5	0.5	0.0	33	0	135.5		445		SHALE; w/siltstone interbeds; bluish gray; fresh; very weak; low hardness; banded; (Salina Group - Unit G).	
							137.0		444		limestone; brown @ 137.3-137.5'	NQ core barrel used @ 137.0-142.0' for pressuremeter testing. Interval reamed w/PQ core barrel after test.
NQ	28	5.0	1.7	0.0	34	0	138.5		442		DOLOMITE; argillaceous; greenish gray to dark bluish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). highly fractured @ 138.5-140.5'	
							139.8		441		SHALE; calcareous; bluish gray; fissile; fresh; strong; moderately hard; (Salina Group - Unit F).	
							142.0		439		claystone band interbedded w/shale @ 142.0'	
PQ	29	3.5	2.4	1.5	69	43	143.5		437		dolomite band; highly fractured @ 143.1-143.2', 143.5-143.7'	144.0-145.0 sample wrapped in plastic
							145.5		435			Core box #13 starts @ 145.5'.
PQ	30	5.0	4.8	3.5	96	70	147.8		433		thin limestone bed; greenish gray; vuggy; highly fractured @ 147.8-148.1'	
							148.5		432		dolomite band; highly fractured @ 148.5-148.7'	
							149.0		431		highly fractured @ 149.0-149.2'	

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# BORING LOG

BORING NO. RB-C6

SHEET 11 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>GEO</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>GEO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
			150.5				150						
PQ	31	5.0	3.0	1.0	60	20	151						
							152						
							153						
							154						
							155						
PQ	32	2.5	2.5	1.9	100	76	156						
							157						
							158						
NQ	33	5.5	1.8	0.0	33	0	159						
							160						
							161						
							162						
							163						
PQ	34	2.0	0.4	0.4	20	20	164						
							165						

151.3  
BRECCIA; poorly indurated; calcareous shale clasts in claystone matrix; (Salina Group - Unit F).  
151.8  
SHALE; calcareous; bluish gray; fissile; fresh; strong; moderately hard; (Salina Group - Unit F).

thin dolomite bed; highly fractured @ 153.3-153.7'  
highly fractured @ 154.0-154.4'  
highly fractured @ 155.0-158.3'

siltstone band; calcareous; light gray @ 156.7-156.9'  
soft sediment deformation, contorted bedding; moderately indurated @ 157.1-157.3'

158.5  
CLAYSTONE; bluish gray; fresh; extremely weak; soft; w/dolomite bands; (Salina Group - Unit F).

162.0  
DOLOMITE; argillaceous; gray; micritic; fresh; strong; moderately hard; banded; (Salina Group - Unit F).  
162.8  
CLAYSTONE; bluish gray; (Salina Group - Unit F).

Core box #14 starts @ 155.5'. 155.7-157.8 wrapped in plastic

NQ core barrel used @ 158.0-163.5' for pressuremeter test. Interval reamed w/PQ core barrel after test.

claystone based on reaming run 33 w/PQ

dolomite; w/anhydrite nodule @ 164.3-164.7'

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# BORING LOG

BORING NO. RB-C6

SHEET 12 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>Go</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>Go</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
			165.5				165		415				
PQ	35	2.5	1.4	0.4	56	16	166		414			DOLOMITE; gray; highly fractured; (Salina Group - Unit F).	
							167		413			SHALE; dark bluish gray to light gray; fissile; fresh; moderately strong; low hardness; w/dolomite interbeds; (Salina Group - Unit F). dolomite band; gray; highly fractured @ 167.0-167.2'	wrapped 0.4' shale in plastic
			168.0				168		412			thin dolomite bed; gray; highly fractured @ 168.0-168.4'	
							169		411			CLAYSTONE; gray; fresh; very weak; friable; (Salina Group - Unit F).	NQ core barrel used @ 168.0-173.5' for pressuremeter test. Interval reamed w/PQ core barrel after test.
NQ	36	5.5	0.8	0.0	15	0	170		410				
							171		409				
							172		408				
							173		407				
PQ	37	1.0	1.0	1.0	100	100	174		407			BRECCIA; indurated calcite matrix & clay matrix; dolomite & dolomitic shale clasts, angular; dark bluish gray; very coarse grained (> 1") to very fine grained; fresh; strong; hard; (Salina Group - Unit F).	Water level @ 20.72' prior to drilling on 09/16/07.
			174.5				175		406				Core box #15 starts @ 174.5'. 175.0-175.6' ground-up core
							176		405				
							177		404			grades pale brown; argillaceous dolomite clasts; moderately weathered (clasts weathered when deposited, matrix is fresh) @ 176.5'	
PQ	38	5.5	5.0	3.7	91	67	178		403			unconformity (erosion surface) @ 177.3'	
							179		402			clast > 4.5" @ 177.5'	
							180		401			grades 15% vugs; brown limestone clasts; banded @ 178.6	

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# BORING LOG

BORING NO. RB-C6

SHEET 13 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

SAMPLING		LOGGED BY <i>GC</i> Grainger/Mass/Ohlmacher	CHECKED BY <i>GC</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
NQ	39	5.0	1.7	0.0	34	0	180.0		180.0		CLAYSTONE & BRECCIA; dark bluish gray; (Salina Group - Unit F).	NQ core barrel used @ 180.0-185.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.
							181.0		399		BRECCIA; indurated calcite matrix & clay matrix; brown limestone clasts; dark bluish gray; very coarse grained (> 1") to very fine grained; fresh; strong; hard; (Salina Group - Unit F).	
							182.0		398		grades clasts; dark brown; fresh; 15% vugs @ 184.0'.	
PQ	40	0.5	0.5	0.0	100	0	185.0		396		grades shale clasts; gray; white calcite matrix; limestone clasts & clay matrix grade out @ 185.5'	
							185.5		395			
							186.0		394		CLAYSTONE; dark bluish gray to light greenish gray; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).	
							186.6		393		0°, J, T, No, No, Pl, S @ 186.6', 189.3'	
							187.1		393		highly fractured @ 187.1-187.5'	Core box #16 starts @ 187.0'.
PQ	41	5.5	5.2	3.8	95	69	188.0		392		SHALE; greenish gray; fresh; moderately strong; low hardness; banded; (Salina Group - Unit F).	
							188.2		391		BRECCIA; poorly indurated to indurated calcite matrix; shale & limestone clasts; greenish gray & white; very coarse grained to micritic; fresh; moderately strong; low hardness; (Salina Group - Unit F).	
							188.8		390		0°, J, VN, No, No, Pl, SR @ 188.8', 189.1'	
							189.1		390		highly fractured @ 189.1-189.3'	
							189.3		389		LIMESTONE; brown; micritic; fresh; top of limestone moderately weathered; strong; hard; 10% vugs; (Salina Group - Unit F).	
							189.9		389		0°, J, VN, No, No, Pl, SR @ 189.9', 190.1'	NQ core barrel used @ 191.0-197.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.
NQ	42	5.0	1.4	0.0	28	0	191.0		388			Core barrel blocked
							192.0		387			
							193.0		386			
							194.0		386			
							195.0		386			

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# BORING LOG

BORING NO. RB-C6

SHEET 14 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

SAMPLING		LOGGED BY GPO for TB for Grainger/Mass/Ohlmacher	CHECKED BY GPO Dogbey/Ohlmacher	APPROVED BY EM Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
NQ	43	1.0	0.4	0.0	40	0	195		385			
PQ	44	1.0	0.8	0.4	80	40	196.0		384		LIMESTONE; dark bluish gray; micritic; fresh; strong; hard; w/calcite nodules; (Salina Group - Unit F).	
NQ	45	5.0	0.9	0.0	18	0	197.0		383		grades 5% vugs @ 199.0'	NQ core barrel used @ 198.0-203.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.
PQ	46	1.0	0.7	0.7	70	70	198.0		382		grades brown & bluish gray; 15% vugs; some brachiopod fossils @ 203.1'	Run 45 recovery & RQD recovery not valid because driller did not insert core barrel prior to drilling run 45. Driller reported a drop of 2.5" @ 200.5'.
NQ	47	5.0	1.4	0.0	28	0	203.0		379		grades no vugs @ 205.5'	NQ core barrel used @ 204.0-209.5' for pressuremeter test. Interval reamed w/PQ core barrel after test.
PQ	48	1.0	1.0	0.0	100	0	204.0		378		LIMESTONE; oolitic; grayish brown; (Salina Group - Unit F). 90°, V, VN, Ca, Fi, PI, S @ 206.3-206.5'	
							205		377		LIMESTONE; brown & bluish gray; micritic; fresh; strong; hard; w/calcite nodules; some brachiopod fossils; (Salina Group - Unit F).	
							206		376			
							207		375			
							208		374			
							209		373			
							210		372			
							211		371		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).	Core box #17 starts @ 209.0'.

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# BORING LOG

BORING NO. RB-C6

SHEET 15 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 580.8 ft (NAVD 88) 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

LOGGED BY <i>for TB for</i> Grainger/Mass/Ohlmacher		CHECKED BY <i>CCO</i> Dogbey/Ohlmacher	APPROVED BY <i>CCO</i> Meyer <i>EM</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
NQ	49	5.0	2.1	0.0	42	0	210		210	0°, J, VN, Ca, Pa, PI, S @ 209.3-209.7' highly fractured @ 209.3-209.5' 55°, J, VN, Ca, Pa, PI, S @ 209.6-210.0' 80°, J, VN, Ca, Pa, PI, S @ 209.8-210.0'	NQ core barrel used @ 210.0-215.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.	
							211		370	LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; (Salina Group - Unit F).	Interval reamed w/PQ core barrel after test.	
							212		369	DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	During reaming, drill locked in boring & freed @ 210.5'.	
							213		368	90°, J, VN, Ca, Pa, PI, S @ 212.3-213.0'	Plugged w/clay/gravel from reamed interval.	
							214		367	LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; fossils; oolites; (Salina Group - Unit F).		
							215		366	90°, J, VN, Ca, Pa, PI, S @ 213.5-213.7'		
							215		365	highly fractured @ 215.1-215.3'	Water level @ 23.41' prior to drilling on 09/18/07.	
							216		365	highly fractured @ 215.8-215.9'		
							217		364	0°, J, N, No, No, PI, R @ 216.3' grades interbedded limestone & pale brown dolomite @ 216.3' 1.5" chert nodule @ 216.4'		
PQ	50	5.5	4.9	2.8	89	51	218		363	0°, B, N, No, No, PI, SR @ 216.5' highly fractured @ 216.5-216.9' 90°, J, N, Ca, Pa, WA, SR @ 217.0-217.3' highly fractured @ 217.3-217.4'		
							219		362	DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; few fossils (ostracodes); (Salina Group - Unit F).		
							220		361	90°, J, N, Ca, Pa, WA, SR @ 217.4-218.2', 218.2-218.9' highly fractured @ 218.2-218.5'		
							221		360	SHALE; bluish gray to dark bluish gray; fresh; moderately strong to very weak; friable; (Salina Group - Unit F).	Core box #18 starts @ 220.5'.	
							222		359	LIMESTONE; dark bluish gray; micritic; fresh; strong; moderately hard; banded; w/shale bands; (Salina Group - Unit F).		
							223		358	CLAYSTONE; dark bluish gray; fresh; weak; low hardness; interbedded w/dolomite & limestone; (Salina Group - Unit F).		
PQ	51	4.5	1.3	0.0	29	0	224		357			
							225		356			

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# BORING LOG

BORING NO. RB-C6

SHEET 16 OF 17

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6192.8'	GROUND ELEVATION (DATUM) E 4606.0'	TOTAL DEPTH 240.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 09/19/07

SAMPLING		LOGGED BY <i>GEO</i> Grainger/Mass/Ohlmacher	CHECKED BY <i>GEO</i> Dogbey/Ohlmacher	APPROVED BY <i>FM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
NQ	52	4.0	4.0	0.0	100	0	225.0		355		dolomite & limestone interbeds grade out @ 225.0'	NQ core barrel used @ 225.0-229.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.
PQ	53	1.5	1.5	0.0	100	0	229.0		351		dolomite parting @ 227.5' silty sandy clay @ 227.8-228.2'	
NQ	54	5.0	2.3	0.0	46	0	230.5		350		SANDSTONE; dark grayish brown; fresh; strong; moderately hard; calcite cement; (Salina Group - Unit F).	NQ core barrel used @ 230.5-235.5' for pressuremeter test. Interval reamed w/PQ core barrel after test.
							231		349		CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	
							232		348		SAND, SILT & CLAY; (Salina Group - Unit F).	
NQ	54	5.0	2.3	0.0	46	0	233		348		CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F). thin dolomite bed @ 232.5-232.8'	
PQ	55	1.0	0.8	0.0	80	0	235.5		345			Water level @ 24.81' prior to start of drilling on 09/19/07. Core box #19 starts @ 235.5'.
NQ	56	3.5	1.8	0.0	51	0	236.5		344		LIMESTONE; bluish gray & brown; micritic; fresh; strong; hard; w/white calcite filled vugs; (Salina Group - Unit F).	
							237		343			
NQ	56	3.5	1.8	0.0	51	0	238		342		DOLOMITE; grayish brown; micritic; fresh; strong; hard; fossils (ostracodes); (Salina Group - Unit E).	
							239		341			Diamonds stripped from NQ bit @ 240.0'.

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C6

SHEET 17 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8'										GROUND ELEVATION (DATUM) E 4606.0'					TOTAL DEPTH 580.8 ft (NAVD 88) 240.0 (feet)				
SURFACE CONDITIONS Gravel parking lot															COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 09/19/07				
SAMPLING										LOGGED BY GCO TB for Grainger/Mass/Ohlmacher										CHECKED BY GCO Dogbey/Ohlmacher					APPROVED BY EM Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS								
											CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD												
							240														Bottom of boring @ 240.0'. Water level @ 24.6' @ completion of drilling. Boring backfilled w/ bentonite chips to 200.0' on 09/19/07. Boring backfilled w/ bentonite chips to 50.0' on 09/20/07. Boring backfilled w/ bentonite chips & gravel near the surface on 09/21/07.								
							241																						
							242																						
							243																						
							244																						
							245																						
							246																						
							247																						
							248																						
							249																						
							250																						
							251																						
							252																						
							253																						
							254																						
							255																						



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C7

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>6/20/07 for TB</i> Grainger/Bonnie/Mass	CHECKED BY <i>EM for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
CA	1	4	3	4	7	1.2	0		580		Poorly graded <u>GRAVEL</u> with Sand (GP) - About 75% fine to coarse, angular, hard gravel w/max. size 3"; about 20% fine to coarse, angular, hard sand; brownish gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
							1		579				
							2		578				
							3		577				
							4		576				
							5		575				
							6		574				
							7		573				
							8		572				
							9		571				
							10		570		grades very loose; w/maximum size 1 1/2" @ 10.0'	Below 5.5' continue w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.	
							11		569				
							12		568				
							13		567				
							14		566				
							15		566	Lean <u>CLAY</u> (CL) - About 93% LL=47, PL=18, no			

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C7

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 580.5 ft (NAVD 88) 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>EM for TB</i> Grainger/Bonnie/Mass	CHECKED BY <i>EM for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
CA	2	2	2	4	6	1.7	15		565		dilatancy, high dry strength fines; about 7% fine, rounded, hard sand; gray & brown, mottled; firm; moist; no reaction w/HCl; homogeneous; w/trace of peat @ 14.5'; (Lacustrine Deposit).		
							16		564				
							17		563				
							18		562		Lean CLAY with Sand (CL) - About 81% LL=30, PL=15 fines; brown; hard; moist; about 18% rounded, hard sand; about 1% gravel.	Change in drilling reaction @ 17.5'. TV = 2.0 TSF @ 21.5'	
							19		561				
TW	3					1.8	20		560				
							21		559				
							22		558				
							23		557		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subangular, hard sand; about 10% gravel; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Change in drill reaction @ 23.0'.	
							24		556				
SPT	4	13	20	28	48	1.3	25		555				
							26		554				
							27		553				
							28		552		grades w/cobbles		
							29		551				
							30		551		DOLOMITE; dark gray; micritic; slightly weathered;	Auger refusal @ 29.5'.	

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# BORING LOG

BORING NO. RB-C7

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>CC for Grainger/Bonnie/Mass</i>	CHECKED BY <i>EM for Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	1	2.5	1.5	0.0	60	0	30		550		very strong; very hard; fractured; (Bass Islands Group).	Below 29.5' continued w/4 1/2" tricone bit using water as drilling fluid. Tricone bit refusal @ 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 30.5'. Set nominal 4 1/2" temporary steel casing to 33.5'. Casing shoe bit failed @ 33.5'. Drilled w/tricone bit to remove metal shoe parts in hole @ 35.5-36.5'.	
HQ	2	1.5	1.0	0.8	67	53	31		549		90°, J, T, No, No, PI, R @ 33.5-34.3', 38.1-38.3'		
HQ	3	1.0	0.8	0.6	80	60	32		548				
							33		547				
							34		546				
HQ	4	2.5	2.5	1.7	100	68	35		545		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/argillaceous dolomite; (Bass Islands Group).		
							36		544				
							37		543		0°, J, T, CI, Pa, PI, SR @ 37.5'		
							38		542		70°, J, T, No, No, PI, SR @ 37.5-38.0'		
							39		541		90°, J, T, No, No, WA, R @ 38.7-39.0'		
							40		540		highly fractured @ 39.0-41.1'		
HQ	5	5.0	4.3	0.5	86	10	41		539				
							42		538		DOLOMITE; light gray; micritic; fresh; strong; hard; mottled; (Bass Islands Group).		
							43		537		60°, J, T, No, No, PI, SR @ 42.5-42.7'		
							44		536		0°, J, T, No, No, WA, SR @ 42.7', 41.1'		
							45		536		30°, J, T, No, No, PI, SR @ 43.0-43.3'		
											highly fractured @ 43.5-44.0'		
												BRECCIA; cemented; brown; medium to coarse	

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# BORING LOG

BORING NO. RB-C7

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0' 580.5 ft (NAVD 88)	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY Grainger/TB Bonnie/TB	CHECKED BY Dogbey/TB Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	6	5.0	4.7	1.6	94	32	45		535		grained; fresh; strong; hard; (Bass Islands Group). 90°, J, T, No, No, PI, SR @ 44.6-45.1' 45°, J, T, No, No, WA, R @ 45.1-45.3'	
							46		534		bedding @ 46.9', 46.4' 30°, J, T, No, No, WA, R @ 47.0'	
							47		533			
							48		532		calcite filled vug @ 47.8-48.0'	Core box #2 starts @ 47.5'
							49		531		DOLOMITE; pale brown, banded; micritic; fresh; strong; hard; (Bass Islands Group).	
			49.0				50		530		60°, J, T, UK, Pa, PI, SR @ 49.2-49.6'	
HQ	7	5.0	5.0	4.7	100	94	51		529			
							52		528			
							53		527		some calcite crystals @ 52.8-53.4'	
							54		526		90°, J, T, No, No, WA, SR @ 54.1-57.3'	
			54.0				55		525			
							56		524		SHALE; black; weathered; (Bass Islands Group). DOLOMITE; light gray & dark gray, mottled; (Bass Islands Group).	
HQ	8	5.0	5.0	4.4	100	88	57		523		DOLOMITE; oolitic; grayish brown; micritic; fresh; strong; hard; massive; (Bass Islands Group). 70°, J, T, No, No, PI, SR @ 55.5-56.1'	
							58		522			
							59		521			
			59.0				60		520			

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# BORING LOG

BORING NO. RB-C7

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>Granger/TB</i>	CHECKED BY <i>Dogbey/TB</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	9	5.0	4.9	4.2	98	84	60		520		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°, J, T, No, No, WA, R @ 59.7', 60.1', 60.7', 61.1' black shale band @ 59.9-60.0', 60.9-60.95'	
							61		519		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; thin bedded; w/argillaceous bands & stylolites; (Bass Islands Group). 90°, J, T, No, No, WA, R @ 62.2-63.5'	Core box #3 starts @ 61.5'
							62		518			
							63		517			
							64		516		0°, J, T, No, No, WA, R @ 63.6'	
							65		515		fractured zone 90°, J, R @ 64.0-65.2'	
							66		514		bedding changes to 25° @ 65.3-67.5'	
HQ	10	5.0	4.6	1.6	92	32	67		513		40°, J, VN, No, No, PI, R @ 65.5'	
							68		512		80°, J, T, No, No, St, VR @ 67.5-69.0'	
							69		511		80°, J, T, No, No, PI, R @ 69.3-70.0', 71.3-72.6'	
							70		510		B, T, No, No, PI @ 70.2', 70.5'	
							71		509		70°, J, T, No, No, PI, R	
HQ	11	5.0	4.6	3.7	92	74	72		508			
							73		507			
							74		506			
							75		506			

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# BORING LOG

BORING NO. RB-C7

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0'					GROUND ELEVATION (DATUM) E 4450.0'					580.5 ft (NAVD 88)					TOTAL DEPTH 272.0 (feet)									
SURFACE CONDITIONS Level, gravel parking area															COORDINATE SYSTEM Plant					DATE START 06/14/07					DATE FINISHED 06/26/07									
SAMPLING															LOGGED BY <i>Granger/TB</i> Granger/Bonnie/Mass										CHECKED BY <i>im for TB</i> Dogbey/Bonnie					APPROVED BY <i>em</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS													
HQ	12	5.0	5.0	2.4	100	48	75		505		BRECCIA; healed; (Bass Islands Group). B,MW,No,No,Ir (slightly weathered) @ 75.5', 78.5'										Partial drilling fluid return @ 75.0'. Core box #4 starts @ 75.5'.													
							76		504		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; thin bedded; w/argillaceous bands & stylolites; (Bass Islands Group).																							
							77		503																									
							78		502																									
							79		79.0												No drilling fluid return @ 78.5'.													
							80		501		0°, B,T,UK,Sp,PI @ 79.4',79.7',80.0'; white clay in fracture @ 80.0'																							
							81		500		80°, J,T,No,No,Ir,VR @ 80.2-81.9'																							
HQ	13	5.0	4.9	1.8	98	36	82		499		0°, B,T,UK,Sp,PI @ 81.0'																							
							83		498		0°, B,T,UK,Sp,PI @ 81.8'																							
							84		497		0°, B,T,UK,Sp,PI @ 82.3'																							
							85		496		80°, J,T,No,No,Ir,VR @ 82.5'																							
							86		495		weathered, very dark gray shale band @ 82.7-82.9'																							
							87		494		0°, B,T,UK,Sp,PI @ 83.1'																							
							88		493		80°, J,T,No,No,Ir,VR @ 83.9'																							
							89		492		0°, B,T,UK,Pa,PI @ 84.2'																							
							90		491		anhydrite filled veins @ 84.8-85.2', 87.5-88.3'																							
							91		490		0°, B,T,UK,Pa,PI @ 85.1'																							
							92		489		0°, B,MW,No,No @ 85.5'; slightly weathered																							
							93		488		0°, B,T,UK,Sp,PI @ 87.3'																							
							94		487		0°, B,T,UK,Pa,PI @ 87.5'																							
							95		486		0°, B,T,UK,Pa,PI @ 88.3',88.5'																							
							96		485		80°, J,T,No,No,PI,R @ 89.3-90.5'																							
							97		484		DOLOMITE; crystalline; gray; micritic; very strong;										Core box #5													

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# BORING LOG

BORING NO. RB-C7

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY G. Grainger/TB for Bonnie/Mass	CHECKED BY S. Dogbey/TB Bonnie	APPROVED BY E. Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	15	5.0	5.0	4.1	100	82	90				hard; massive; (Bass Islands Group).	starts @ 89.8'	
							91						
							91.4				breccia @ 91.4-91.7'		
							91.5						
							92				DOLOMITE; argillaceous; gray; very fine grained; fresh; strong; hard; (Bass Islands Group). closely spaced stylolites @ 91.7-92.2' thin black shale seam @ 92.2'	Water level @ 16.5' prior to drilling on 06/20/07.	
							92.5				80°, J, T, No, No, PI, R @ 92.5-93.0'		
							93						
							94				0°, B, T, No, No, PI, SR-R @ 94.0', 94.3'		
							94.0						
							95				0°, B, T, No, No, PI, SR-R @ 94.9'		
							95.0						
							96				0°, B, T, No, No, PI, SR-R @ 95.7', 96.0'		
HQ	16	5.0	4.9	2.4	98	48	96				80°, J, T, No, No, PI, R @ 95.7-96.3'		
							96.0						
							97				DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group). wavy bedding @ 96.0-97.0'		
							97.0				70°, J, VN, UK, Sp, PI, R @ 97.0-97.3'		
							97.5				0°, B, T, No, No, PI, SR-R @ 97.5', 97.9'		
							98						
							98.5				90°, J, T, No, No, PI, R @ 98.5'		
							98.5				0°, B, T, No, No, PI, SR-R @ 98.5', 98.7'		
							99				0°, B, T, No, No, PI, SR-R @ 99.1', 99.5'		
							99.0						
							99.6				80°, J, T, No, No, PI, R @ 99.6-100.7'		
							100				0°, B, T, No, No, PI, SR-R @ 100.0', 100.1'		
							100.0						
							101				0°, B, T, No, No, PI, SR-R @ 101.2', 101.7'		
HQ	17	5.0	4.9	4.0	98	80	101						
							102						
							102.6				0°, B, T, No, No, PI, SR-R 102.6', 102.9', 103.1'		
							103						
							104						
							104.0					Core box #6 starts @ 104.0'.	
							105						

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# BORING LOG

BORING NO. RB-C7

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>8/22/08 for TB</i> Grainger/Bonnie/Mass	CHECKED BY <i>8/22/08 for TB</i> Dogbey/Bonnie	APPROVED BY <i>8/22/08</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							105				0-5°, B,N,UK,Sp,PI @ 104.9',105.5'	
HQ	18	5.0	4.8	3.1	96	62	106				B,MW,R (slightly weathered) @ 106.5',106.7'	
							107				70°, J,N,No,No,PI,VR @ 106.8-107.5', 107.9-108.8'	
							108				B,N,UK,Sp,PI @ 107.2'	
							109				DOLOMITE; dark grayish brown; crystalline; micritic; fresh; very strong; very hard; massive; w/stylolites & pits; (Bass Islands Group). bedding broken & slightly weathered; clay present @ 108.8-109.2'	
HQ	19	5.0	5.0	3.5	100	70	110				80°, J,T,No,No,PI,R @ 109.2-110.2'	
							111					
							112				DOLOMITE; dark gray; crystalline; micritic; fresh; very strong; very hard; thick bedded; (Bass Islands Group).	
							113				B,VN,UK,Su,PI @ 112.1', 112.8'	
							114				fractures in rock filled w/anhydrite @ 112.8-114.5'	
							115				B,T,No,No,PI @ 114.6',115.0'	
HQ	20	5.0	4.8	2.3	96	46	116				DOLOMITE; argillaceous; gray; very fine grained; fresh; very strong; hard; thin bedded w/thin shale seams; (Salina Group - Unit F).	
							117				B,T,No,No,PI @ 115.3',115.6',115.8',116.4', soft clay seam @ 115.6'	
							118				B,T,No,No,PI @ 116.7'	
							119				80°, J,T,No,No,PI,R @ 117.0-117.2'	
							120				B,T,No,No,PI @ 117.2'	
											B,T,No,No,PI @ 117.7',118.0'	
												Core box #7 starts @ 119.0'
												fractured; slightly weathered @ 119.5-122.0'

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C7

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>800 for</i> Grainger/Bonnie/TB	CHECKED BY <i>m for</i> Dogbey/Bonnie/TB	APPROVED BY <i>em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RQD						
HQ	21	5.0	3.6	0.7	72	14		120		460		bedding; weathered @ 120.2'	Core barrel trying to block off @ 119.0-122.0' core loss.
								121		459		70°, J, PI, R @ 121.5-122.0'	
								122		458		DOLOMITE; argillaceous; banded; fresh to slightly weathered; moderately strong; hard; w/veins & layers of anhydrite; (Salina Group - Unit F). bedding; weathered @ 122.8', 123.4'	
								123		457		vein w/anhydrite crystals @ 123.5-124.0'	Core barrel trying to block @ 124.5-126.9'.
								124		456		bedding; weathered @ 124.0', 124.3'	
HQ	22	5.0	2.8	NR	56	NR		125		455		grading shaley w/depth @ 125.0'	Core barrel trying to block off @ 129.0-134.5'.
								126		454			
								127		453		DOLOMITE; shaley; gray; micritic; slightly weathered; w/thin layers of dolomite; crystalline; micritic; very strong; (Salina Group - Unit F).	
								128		452		CLAYSTONE; dolomitic; gray; blocky; slightly weathered; very weak; low hardness w/bands of dolomite; crystalline; very strong; fresh; very hard; (Salina Group - Unit F). 0°, J, PI, R @ 128.5', 129.5'	Core barrel trying to block off @ 129.0-134.5'.
								129		451			
HQ	23	5.0	1.4	0.0	28	0		130		450			
								131		449			
								132		448			
								133		447			
								134		446			
								135		446			

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# BORING LOG

BORING NO. RB-C7

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY Grainger/TB for Bonnie/Mass	CHECKED BY Dogbey/TB	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING				DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY						
HQ	24	2.5	1.4	0.0	56	0					135					Core barrel trying to block off @ 134.0-136.5'.
			136.5								136					
HQ	25	2.5	0.5	0.0	20	0					137					
											138					
			139.0								139					
HQ	26	2.5	0.0	0.0	0	0					140					Run HQ-26: Tried several times to recover core.
											141					Run HQ-27: Reduced run length to 3.0' to attempt recovery of HQ-26.
			141.5								142					
HQ	27	3.0	0.7	0.0	23	0					143					
											144					
			144.5								145					
HQ	28	2.5	2.1	1.1	84	44					146					
											147					
			147.0								148					
HQ	29	2.5	2.2	0.7	88	28					149					
											150					
			149.5													

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grades moderately weathered; weak; moderately hard; medium bedding

CLAY; very soft; white

CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded interbedded w/bands of dolomite; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F). 90°, J, T @ 146.0-147.0'

Core box #8 starts @ 147.9'.

Following run HQ-29 tagged hole, depth 149.5'.



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# BORING LOG

BORING NO. RB-C7

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0' 580.5 ft (NAVD 88)	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY Grainger/TB Bonnie/Mass	CHECKED BY Dogbey/TB Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	30	5.0	2.2	0.0	44	0	150		430				Water trying to block off @ 150.0-154.0'.
							151		429			CLAY; soft; weathered	Hard and soft drilling @ 150.0-154.0'.
							152		428			CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; w/bands of dolomite; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).	
							153		427				
							154		426				Water level @ 23.1' prior to drilling on 06/21/07.
HQ	31	2.5	1.0	0.0	40	0	155		425			CLAY; gray; very soft	
							156		424			CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; interbedded w/DOLOMITE; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).	
							157		423				Hard and soft drilling @ 157.0-158.0'.
HQ	32	2.5	2.4	1.0	96	40	158		422				
							159		421				
							160		420			CLAY; very soft	Soft drilling.
HQ	33	2.5	0.8	0.0	32	0	161		419				
							162		418			CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; medium bedded; interbedded w/DOLOMITE; crystalline; micritic; very strong; fresh; very hard; (Salina Group - Unit F).	
HQ	34	2.5	0.7	0.0	28	0	163		417				
							164		416				
							165		416				

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# BORING LOG

BORING NO. RB-C7

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

LOGGED BY <i>EM for TB</i> Grainger/Bonnie/Mass		CHECKED BY <i>EM for TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	35	2.5	1.0	0.0	40	0	165		415				
							166		414				
			167.0				167		413				
HQ	36	2.5	0.4	0.0	16	0	168		412				
							169		411				
			169.5				170		410			90°, J, T, No, No, Pl, R @ 169.4'	
HQ	37	2.5	0.0	0.0	0	0	171		409			CLAYSTONE; dolomitic; gray; blocky; moderately weathered; weak; moderately hard; w/partings of dolomite; fresh; (Salina Group - Unit F).	
							172		408				
			172.0				173		407				
HQ	38	2.5	1.1	0.0	44	0	174		406				
							175		405				
			174.5				176		404				
HQ	39	2.5	2.0	0.0	80	0	177		403				
							178		402				
			177.0				179		401				
HQ	40	2.5	0.0	0.0	0	0	180		400				
							180		399				
			179.5						398				

Core box #9 starts @ 177.0'.

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# BORING LOG

BORING NO. RB-C7

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY Grainger/TB TB for	CHECKED BY Emf/TB Dogbey/Bonnie	APPROVED BY Em Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	41	2.5	0.9	0.0	36	0	180		400				
							181		399				
			182.0				182		398				
HQ	42	2.5	1.5	0.0	60	0	183		397				
							184		396				
			184.5				185		395				
HQ	43	2.5	2.1	0.5	84	20	186		394				
							187		393				
			187.0				188		392				
HQ	44	2.5	0.0	0.0	0	0	189		391				
							190		390				
			189.5				191		389				
HQ	45	2.5	2.4	0.4	96	16	192		388				
							193		387				
			192.0				194		386				
HQ	46	2.5	1.7	0.0	68	0	195		385				
							196		384				
			194.5				197		383				

0-5° B, CI, Pa, PI, SR @ 183.5'  
 80°, J, No, No, PI, SR @ 183.5, 183.6 intersected perpendicularly by 75°, J, No, No, PI @ 183.6' fractured @ 183.5-184.5

DOLOMITE; crystalline; micritic; slightly weathered; very strong; very hard; (Salina Group - Unit F). grades weak @ 185.9'

BRECCIA; poorly indurated claystone matrix; dark gray; highly weathered; very weak; low hardness; w/ dolomite clasts; angular; dark grayish brown; micritic; slightly weathered; hard; (Salina Group - Unit F).

LIMESTONE; gray; micritic; fresh; moderately hard; (Salina Group - Unit F).

BRECCIA; poorly indurated claystone matrix; dark gray; slightly weathered; very weak; low hardness; w/ limestone clasts; angular; gray; micritic; slightly weathered; hard; (Salina Group - Unit F). 90°, J, T, CI, Pa, PI, SR @ 190.7-191.5'

LIMESTONE; 80° gray; micritic; fresh; hard; interbedded w/DOLOMITE; light brownish gray; very fine grained; fresh; strong; hard; (Salina Group - Unit F). stylolites @ 192.5-193.7'; very close @ 193.5-193.7'

vuggy limestone @ 194.5-195.1'

After run HQ-44: Hole depth 187.5'. Run HQ-45: Reduced to 2.5' to try to recover run HQ-44.

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# BORING LOG

BORING NO. RB-C7

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>Granger/TB</i> Granger/Bonnie/Mass	CHECKED BY <i>Dogbey/TB</i> Dogbey/Bonnie	APPROVED BY <i>Em</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	47	2.5	1.7	0.6	68	24	195		385			
							196		384		0°, J, No, No, PI, SR @ 196.0', 196.3', 196.8'	
			197.0				197		383		dolomite; gray; micritic; fresh; strong; moderately hard @ 197.2-197.7'	
HQ	48	2.5	2.0	1.3	80	52	198		382		90°, J, Ca, Pa, PI, SR @ 197.2-197.7'	
			199.0				199		381			
			199.5				200		380		BRECCIA; poorly indurated claystone matrix; dark gray; highly weathered; very weak; low hardness; w/ limestone clasts; angular; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
HQ	49	2.5	1.6	0.0	64	0	201		379			
			202.0				202		378		claystone; highly weathered; extremely weak; clay like @ 202.0-202.9'	Core box #10 starts @ 202.0'.
HQ	50	2.5	2.5	1.0	100	40	203		377			
			203.6				204		376		LIMESTONE; vuggy; gray; micritic; fresh; very strong; hard; (Salina Group - Unit F). 95°, J, No, No, PI, R @ 204.2-204.4'	
			204.5				205		375			Core loss @ 204.5-205.0'.
							206		374			
HQ	51	5.0	4.3	2.0	86	40	207		373		90°, J, Ca, Fi, WA, SR @ 207.0-209.0'	
							208		372			
							209		371		DOLOMITE; gray; micritic; fresh; very strong; hard; (Salina Group - Unit F). banded; light greenish gray @ 209.2-211.2'	Core loss @ 208.6-208.8'.
			209.5				210		371		70°, J, Ca, Pa, PI, SR @ 209.5-209.7'	

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# BORING LOG

BORING NO. RB-C7

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>Granger/Bonnie/Mass</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	52	5.0	4.8	2.8	96	56	210		370		40°, J, Ca, Fi, PI, SR @ 209.8'	
							211		369		limestone band; vuggy; medium dark gray; micritic; slightly weathered; strong; moderately hard @ 211.2-211.4'	
							212		368		0°, J, Ca, Fi, PI, SR @ 211.5', 211.7', 211.8'	
							213		367		70°, J, Ca, Fi, PI, SR @ 211.5-211.9'	
							214		366		30°, J, Ca, Fi, PI, SR @ 212.2-212.4'	
							215		365		stylolites increase @ 213.0-214.0'	
							216		364		50°, J, Ca, Fi, PI, SR @ 214.0'	
							217		363		40°, J, Ca, Pa, PI, SR @ 214.0'	
							218		362		brecciated band; light brownish gray dolomite @ 215.0-215.1'	
							219		361		LIMESTONE; vuggy; light gray; slightly weathered; strong; hard; (Salina Group - Unit F).	
							220		360		brecciated @ ~216.5'	
							221		359		DOLOMITE; gray; micritic; fresh; strong; hard; w/ ostracodes; (Salina Group - Unit F).	
							222		358		90°, J, Ca, Pa, PI, SR @ 219.1-219.5'	Core box #11 starts @ 219.5'.
							223		357		75°, J, Ca, Fi, PI, SR @ 219.1-219.5'	
							224		356		LIMESTONE; gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F).	
							225		355		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							226		354		50°, J, Ca, Fi, PI, SR @ 222.5', 223.1'	
							227		353		closely spaced stylolites @ 223.1-223.4'	
							228		352		60°, J, Ca, Pa, PI, SR @ 223.5'	Core barrel blocked @ 223.5'.
							229		351		90°, J, Ca, Pa, PI, SR @ 223.5-223.7'	Core grinding @ 223.5-225.5'.

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# BORING LOG

BORING NO. RB-C7

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>G. Granger</i> TB for Bonnie/Mass	CHECKED BY <i>E. Meyer</i> TB for Dogbey/Bonnie	APPROVED BY <i>E. Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	56	5.0	1.4	0.0	28	0	225		355		CLAYSTONE; gray; highly weathered; extremely weak; low hardness; w/angular dolomite fragments; gray or pale yellowish brown; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F).	Soft drilling @ 225.5-229.0'.
HQ	57	2.5	0.4	0.0	16	0	229.5		351		DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; w/limey partings; (Salina Group - Unit F).	Core barrel blocking off @ 229.5'.
HQ	58	2.5	0.9	0.0	36	0	230		350		CLAYSTONE; dark gray; highly weathered; extremely weak; low hardness (Salina Group - Unit F)	
HQ	59	2.5	1.0	0.0	40	0	232.0		348		DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; w/limey partings; (Salina Group - Unit F). 60° J, CI, Pa, PI, SR @ 233.0'	
HQ	60	2.5	2.3	0.8	92	32	233		347		BRECCIA; poorly indurated claystone matrix; gray; highly weathered; extremely weak; low hardness; w/ angular argillaceous dolomite fragments; (Salina Group - Unit F).	Water level @ 23.7' prior to drilling on 06/26/07. Core loss @ 234.5-236.6'.
							234		346		gray dolomite; moderately hard @ 236.6-236.9' 30° J, CI, FI, PI, SR @ 236.7'	Core loss @ 237.0-237.2' along stylolites.
							235		345		DOLOMITE; light brownish gray; micritic; fresh; very strong; hard; w/fossils; (Salina Group - Unit E). angular fragments @ 237.0-237.9' 90° J, No, No, PI, SR @ 237.7-240.0' claystone band 0.1' thick; medium light gray; highly weathered; extremely weak; low hardness @ 237.9' 0° J, No, No, PI, SR @ 238.3'	
							236		344		vuggy; moderately hard dolomite (vugs from dissolved fossils) @ 239.5'	

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# BORING LOG

BORING NO. RB-C7

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>Granger</i> TB Granger/Bonnie/Mass	CHECKED BY <i>Em Fe</i> TB Dogbey/Bonnie	APPROVED BY <i>Em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	61	5.0	4.6	3.7	92	74	240						
							241					40°, J, No, No, PI, SR @ 241.1-241.2'	
							242					60°, J, No, No, PI, SR @ 241.1-241.2'	
							243					10°, J, No, No, PI, SR @ 241.1-241.2'	
							244					80°, J, T, UK, FI, PI @ 241.2-241.6'	
							245					0°, J, CI, FI, PI, SR @ 243.5'	
							246					0°, J, No, No, PI, SR @ 243.8', 244.2'	
			244.5				247					anhydrite; amorphous; aphanitic; fresh; very weak; low hardness; parting @ 245.4', 245.9'	
HQ	62	5.0	5.0	4.5	100	90	248					0°, J, No, No, PI, SR @ 246.3' (fossil bed), 247.7'	
							249					50°, J, No, No, PI, SR @ 246.7-247.0', 247.5'	
							250					claystone band; very light gray; highly weathered; extremely weak; low hardness; @ 247.5-247.7'	Core box #12 starts @ 247.6'
							251					brecciated; closely spaced stylolites; fossil beds; @ 248.0-248.2'	
			249.5				252						
HQ	63	5.0	4.4	3.5	88	70	253					0°, J, Ca, Pa, PI, SR @ 252.4'	
							254					30°, J, Ca, Pa, PI, SR @ 252.4'	
							255					90°, J, Ca, Pa, PI, SR @ 252.6-252.9'	
							256					gypsum; amorphous; micritic; fresh; very weak; low hardness; parting or band @ 252.9', 253.2-253.4', 253.5-253.7'	Core loss @ 252.4-252.6'
			254.5				257						
							258						
							259						
							260						
							261						
							262						
							263						
							264						
							265						
							266						
							267						
							268						
							269						
							270						
							271						
							272						
							273						
							274						
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							300						

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253.7

DOLOMITE; argillaceous; gray; fissile; platy; micritic to very fine grained; fresh; strong; hard; w/closely spaced anhydrite & gypsum partings, beds, & lenses;



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C7

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY <i>Granger/TB</i>	CHECKED BY <i>Dogbey/TB</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	LOGGED BY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	LOGGED BY						
HQ	64	5.0	5.0	4.7	100	94	255				amorphous; white; few gray; fresh; weak; moderately hard; largest bed 0.4' thick; beds w/convoluted boundaries; (Salina Group - Unit E).		
							256						
							257				angular fragments @ 257.2-259.3' 0°, J, CI, Fi, PI, S @ 257.2-257.3'		
							258						
							259				gypsum bed @ 258.9-259.1'		
			259.5				321						
HQ	65	5.0	5.0	4.7	100	94	262				claystone band; light gray; highly weathered; extremely weak; low hardness @ 261.8-261.9' grades w/no anhydrite & gypsum beds/partings/lenses @ 261.9 0°, J, Gy, Fi, PI, SR @ 262.8-263.8'	Core box #13 starts @ 262.0'.	
							263						
							264				grades w/anhydrite & gypsum beds/partings/lenses @ 264.0'		
			264.5				316				0°, J, CI, Pa, PI, SR @ 264.0'		
							265						
							266				0°, J, Gy, Fi, PI, S @ 265.8'		
							267				90°, J, No, No, PI, S @ 265.8-265.9'		
HQ	66	5.0	5.0	4.7	100	94	267						
							268						
							269						
			269.5				311						
							270						

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# BORING LOG

BORING NO. RB-C7

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6117.0'	GROUND ELEVATION (DATUM) E 4450.0'	TOTAL DEPTH 580.5 ft (NAVD 88) 272.0 (feet)
SURFACE CONDITIONS Level, gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 06/26/07

SAMPLING		LOGGED BY Granger/TB Bonnie/Mass	CHECKED BY Dogbey/TB	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	67	2.5	2.5	2.5	100	100	270		310		fossil beds @ 269.5'	
							271		309		DOLOMITE; dark reddish brown; micritic; fresh; very strong; hard; w/ thin shale partings; gray; fresh; strong; moderately hard; convoluted boundaries; wide to close spacing; (Salina Group - Unit E).	
							272		308			Bottom of boring @ 272.0'. Water level @ 18.4' @ completion of drilling. Backfilled w/ bentonite chips on 09/09/07.
							273		307			
							274		306			
							275		305			
							276		304			
							277		303			
							278		302			
							279		301			
							280		300			
							281		299			
							282		298			
							283		297			
							284		296			
							285					



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# BORING LOG

BORING NO. RB-C8

SHEET 1 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							0		580		Poorly graded <u>COBBLES</u> with Gravel - About 60% angular to subangular, hard cobbles w/max size 4"; about 30% fine to coarse, angular to subangular, hard gravel w/max. size 3"; about 5% fine to coarse, angular to subangular, hard sand; about 5% fines; dark reddish gray; dry; weak reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1		579			
							2		578		Well-graded <u>COBBLES</u> - About 80% angular to subangular, hard cobbles, w/max size 8"; about 10% angular to subangular gravel w/max size 3"; about 5% sand; about 5% fines; dark reddish gray; dry; weak reaction w/HCl; homogeneous; (Fill).	
							3		577			
S	1		4.0			0.7	4		576			Below 4.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							5		575		Well graded <u>GRAVEL</u> (GW) - About 60% fine to coarse, angular to subangular gravel; fractured w/2 hammer blows; about 15% angular to subangular cobbles; about 10% fine to coarse, angular to subangular sand; trace fines; light gray; weak; moist; strong reaction w/HCl; homogeneous; no cementation; (Fill).	
							6		574			
S	2		5.0			1.9	7		573			
							8		572			
							9		571			
							10		570			
			10.0				11		569			
							12		568			
S	3					2.8	13		567			
							14		566		Fat <u>CLAY</u> with sand (CH) - About 80% high plasticity, high toughness, slow dilatancy fines; about 20% fine to coarse, angular to subrounded sand; trace gravel; strong brown to gray; soft; moist; strong reaction w/ HCl; homogeneous; (Lacustrine Deposit).	
							15		566			

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# BORING LOG

BORING NO. RB-C8

SHEET 2 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>600</i>		CHECKED BY <i>Em</i> Dobby/Ohlmacher	APPROVED BY <i>Em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	4		15.0			5.0	15		565			PP = 1.1 TSF	
							16		564				
							17		563		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, rounded to subangular sand; about 5% fine, rounded to subangular gravel; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP = 2.3 TSF	
							18		562				
							19		561				
							20		560				
S	5		20.0			5.0	20		560		Lean CLAY with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subangular to rounded sand, fractured w/1 hammer blow; dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP = 3.3 TSF	
							21		559				
							22		558				
							23		557				
							24		556				
							25		555				
							26		554				
S	6		25.0			NR	25		555				
							26		554		DOLOMITE; gray; crystalline; micritic; slightly weathered; strong; moderately hard; (Bass Islands Group).	Set nominal 6" temporary steel casing to 29.5'. Below 29.5' continued w/triple tube wire line core barrel w/ diamond bit using water as drilling fluid.	
							27		553				
							28		552				
							29		551				
							29.5		551			Core box #1 starts @ 29.5'.	

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# BORING LOG

BORING NO. RB-C8

SHEET 3 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	1	2.2	1.4	0.9	64	41	30		550		90° J,T,No,No,PI,SR @ 30.2-30.5',30.5-31.1',31.1-31.3', 31.8-32.1' 0° J,VN,No,No,PI,SR @ 30.5',30.6',30.8'	
			31.7				31		549			
							32		548		grades shale partings (0.05' spacing), some horizontal stylolites @ 32.0' 0° J,VN,No,No,PI,SR @ 32.6',33.0',33.2',33.7',33.9' 90° J,T,No,No,PI,SR @ 32.7-34.0'	
PQ	2	5.0	5.0	4.4	100	88	34		546		90° J,T,No,No,PI,SR @ 34.1-36.6' 0° J,VN,No,No,PI,SR @ 34.4',34.7',35.2'	
							35		545			
							36		544		grades no shale partings @ 35.5'	
			36.7				37		543		65° J,T,No,No,PI,SR @ 36.4-36.7' 30° J,VN,No,No,PI,SR @ 36.4-36.6' highly fractured @ 36.7-38.0' 90° J,T,No,No,PI,SR @ 36.9-37.8'	
							38		542			
PQ	3	5.0	5.0	1.8	100	36	39		541		90° J,T,No,No,PI,SR @ 38.5-39.3' black shale band @ 38.6' 10° J,T,No,No,PI,S @ 39.2' 0° J,VN,No,No,PI,SR @ 39.1', 70° J,VN,No,No,PI,R @ 39.6-40.2'	
							40		540		highly fractured @ 40.2-40.5' 0° J,VN,No,No,PI,SR @ 40.5',40.7',40.8',41.0'	Core box #2 starts @ 39.7'
							41		539		grades 15% vugs @ 40.5' grades mottled gray & dark gray, no vugs @ 40.7' black shale parting @ 41.0'	No drilling fluid return @ 40.5'
			41.7				42		538		0° J,VN,No,No,PI,SR @ 41.9',42.3'	
							43		537		30° J,VN,No,No,PI,S @ 42.5-42.6' highly fractured @ 42.6-42.7', 42.8-43.4' 90° J,T,No,No,PI,SR @ 42.7-43.3'	
PQ	4	5.0	5.0	1.7	100	34	44		536		DOLOMITE, vuggy; dark gray; slightly weathered; strong; moderately hard; 15% vugs; some calcite in vugs; banded; (Bass Islands Group). 0° J,VN,No,No,PI,SR @ 43.4' 0° J,VN,No,No,PI,SR @ 43.6',44.3',44.6'	

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# BORING LOG

BORING NO. RB-C8

SHEET 4 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GC</i>	CHECKED BY Dogbey/Ohlmacher <i>GC</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							45		535		highly fractured; partially cemented @ 44.8-45.5'	
							46		534		5° J, VN, CI, Pa, PI, SR @ 45.7', 46.0' 75° J, T, No, No, PI, SR @ 45.7-46.0'	
			46.7				47		533		breccia zone, cemented @ 46.5-46.8' calcite vein (0.05' thick) @ 46.5' grades gray, no vugs @ 46.8' highly fractured @ 46.9-47.0' grades 20% vugs @ 47.3'	
							48		532		14° J, VN, No, No, WA, SR @ 47.5', 48.2'	
PQ	5	5.0	4.8	4.2	96	84	49		531		90° J, T, No, No, PI, SR @ 48.2-49.2', 50.4-50.9' DOLOMITE; gray; slightly weathered; strong; moderately hard; banded; (Bass Islands Group). highly fractured @ 48.4-48.5' 30° J, T, No, No, PI, SR @ 48.9-49.2'	Core box #3 starts @ 48.7'. Vibrations in drill stem @ 49.0'
							50		530		0° J, VN, No, No, PI, SR @ 49.8', 50.2', 50.9'	
							51		529		90° J, T, No, No, PI, SR @ 51.4-51.7'	
			51.7				52		528		65° J, T, No, No, PI, SR @ 52.3-52.6', 52.8-53.3' 25° J, T, No, No, PI, SR @ 52.5'	Water level @ 8.4' prior to drilling on 06/15/07.
							53		527		90° J, T, No, No, PI, SR @ 52.9-54.0'	
PQ	6	4.7	4.7	2.5	100	53	54		526		40° J, T, No, No, PI, SR @ 54.1-54.3' 20° J, T, No, No, PI, SR @ 54.3'	
							55		525		0° J, VN, No, No, PI, SR @ 54.4', 54.6' 90° J, T, No, No, PI, SR @ 54.4-54.7'	Loosing drilling fluid @ 55.5'.
							56		524		DOLOMITE; argillaceous; dark gray; micritic; fresh; weak; low hardness; bedding <1/4"; (Bass Islands Group).	
			56.4				57		523		DOLOMITE; mottled dark gray & gray; micritic; strong; moderately hard; (Bass Islands Group).	
							58		522		DOLOMITE; oolitic; brownish gray; very fine grained; strong; moderately hard; banded; (Bass Islands Group).	
PQ	7	5.3	5.2	3.1	98	58	59		521		0° J, VN, No, No, PI, SR @ 54.9', 57.7', 57.8' 90° J, T, No, No, PI, SR @ 54.9-55.2', 55.4-55.6', 55.6-56.4', 56.4-56.9' 80° J, VN, No, No, PI, SR @ 57.0-58.0'	Core box #4 starts @ 57.8'.
							60				DOLOMITE; brecciated; indurated; gray; very fine grained; fresh; strong; moderately hard; banded; (Bass Islands Group).	

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# BORING LOG

BORING NO. RB-C8

SHEET 5 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>CCO</i>			CHECKED BY <i>CCO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								60		520		0°, J, VN, CI, Pa, WA, R @ 58.5', 58.6'	
												black clay band @ 58.6-58.7'	
												highly fractured @ 58.7-58.4'	
								61		519		grades no breccia, banded @ 58.9'	
												90°, J, T, No, No, PI, SR @ 58.9-59.8'	
												0°, J, VN, No, No, PI, SR @ 59.0', 59.6', 59.9'	
												65°, J, T, No, No, PI, SR @ 59.9-60.2'	
								62		518		grades breccia indurated w/angular to subrounded fragments @ 60.0'	
			61.7									0°, J, T, No, No, PI, SR @ 60.2', 61.0', 61.1', 62.0', 62.5', 63.6'	
												grades no breccia @ 60.4'	
								63		517		0°, J, N, CI, FI, PI, R @ 60.6'	
												grades breccia indurated @ 60.8'	
								64		516		DOLOMITE; gray; very fine grained; fresh; strong; moderately hard; banded; (Bass Islands Group).	
PQ	8	5.0	5.0	0.5	100	10						90°, J, T, No, No, PI, SR @ 61.1-61.7'(2), 61.7-63.5'	
												highly fractured @ 62.9-63.5'	
								65		515		90°, J, T, No, No, PI, SR @ 63.5-66.7', highly fractured @ 63.9-64.7'	
												0°, J, T, No, No, PI, SR @ 65.1', 65.2'	
												highly fractured zone @ 65.4-66.7'	
								66		514			
								67		513		0°, J, T, No, No, PI, SR @ 67.0', 67.8', 68.0', 68.1'	
												10°, J, T, No, No, PI, SR @ 67.4'	
								68		512		grades 5% vugs @ 67.8'	
												70°, J, T, No, No, PI, SR @ 67.8-68.4'	
								69		511		0°, J, T, No, No, PI, SR @ 68.5', 68.6', 68.7'	
PQ	9	5.0	5.0	3.8	100	76						0°, J, T, No, No, PI, SR @ 69.3', 70.3'	
								70		510			
												90°, J, T, No, No, PI, SR @ 70.4-70.8'	
								71		509		0°, J, T, No, No, PI, SR @ 70.6', 70.9'	
								72		508			
												0°, J, T, No, No, PI, SR @ 72.4', 72.5'	
								73		507		90°, J, T, No, No, PI, SR @ 72.4-72.7'	
								74		506			
PQ	10	5.0	5.0	3.9	100	78						90°, J, T, No, No, PI, SR @ 73.7-74.0'	
								75				80°, V, MW, Ca, FI, PI, SR @ 74.6-75.1'	

Core box #5 starts @ 66.7'

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8  
SHEET 6 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY <i>GO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								75		505		0°, J, VN, Cl, Pa, WV, SR @ 74.6' 0°, J, T, No, No, PI, SR @ 75.0' highly fractured @ 75.0-75.4' 50°, J, VN, No, No, PI, SR @ 75.1-75.5' 20°, J, VN, No, No, PI, SR @ 75.3', 75.8' 25°, J, VN, No, No, PI, SR @ 75.3-75.5' 90°, J, T, No, No, PI, SR @ 76.1-76.7', 76.8-77.0' 0°, J, T, No, No, PI, SR @ 76.4', 76.5', 76.9', 77.0'	Core box #6 starts @ 75.5'.
			76.7					76	504				
								77	503				
								78	502				
PQ	11	5.0	4.8	2.7	96	54		79	501	0°, J, T, No, No, PI, SR @ 77.8'  0°, J, T, No, No, PI, SR @ 78.7' 60°, J, T, No, No, PI, SR @ 78.5-78.7' highly fractured @ 79.0-79.4' 0°, J, T, No, No, PI, SR @ 79.1', 79.3', 79.8' 45°, J, T, No, No, PI, SR @ 79.3-79.6', 79.3-79.4' 90°, J, T, No, No, PI, SR @ 79.9-80.4', 81.1-81.3'			
								80	500				
								81	499				
			81.7					82	498	0°, J, T, No, No, PI, SR @ 80.5', 81.1'  <b>SHALE</b> ; fissile; black; fresh; weak; low hardness; parting; (Bass Islands Group).			
								83	497	<b>DOLOMITE</b> ; gray; micritic; fresh; strong; moderately hard; 5% vugs; banded; (Bass Islands Group).			
PQ	12	5.0	5.0	3.3	100	66		84	496	0°, J, MW, Cl, Fi, PI, SR @ 81.9' 0°, J, T, No, No, PI, SR @ 82.1', 82.6', 83.4' highly fractured @ 82.6-82.7' 90°, J, T, No, No, PI, SR @ 82.7-82.9' 20°, J, VN, No, No, PI, SR @ 82.9', 83.2' 30°, J, VN, Cl, Pa, PI, SR @ 83.8-84.0'		Core box #7 starts @ 84.4'.	
								85	495	0.02' thick black shale parting @ 84.4'  15°, J, VN, Cl, Pa, PI, SR @ 85.0' 60°, J, VN, Ca, Fi, PI, SR @ 85.0-85.3' 70°, J, T, No, No, PI, SR @ 85.2-85.9'			
								86	494	0°, J, T, No, No, PI, SR @ 85.9' 30°, J, VN, Cl, Pa, PI, SR @ 86.0-86.1', 86.4-86.5'			
			86.7					87	493	90°, J, T, No, No, PI, SR @ 86.5-86.6' 80°, J, T, No, No, PI, SR @ 86.8-87.6' 0°, J, T, No, No, PI, SR @ 86.9', 87.1'			
								88	492	15°, J, VN, Cl, Pa, PI, SR @ 87.4'			
PQ	13	5.0	5.0	3.9	100	78		89	491	15°, J, VN, Cl, Pa, PI, SR @ 88.0' 90°, J, T, No, No, PI, SR @ 88.3-88.6' 0°, J, T, No, No, PI, SR @ 88.6' 0°, J, VN, Cl, Pa, WA, SR @ 88.9' 90°, J, T, No, No, PI, SR @ 89.1-89.5'			
								90		491			

5/28/2008 9:44 AM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 7 OF 32

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6110.9'					E 4534.4'					580.4 ft (NAVD 88)		471.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot near field										Plant					06/13/07		06/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Ohlmacher					Dobbey/Ohlmacher					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS
							90		490		20° J, VN, CI, Pa, PI, SR @ 90.1'										
							91		489		BRECCIA; indurated; dolomite clasts in dolomite matrix; gray; medium to very coarse grained; fresh; strong; moderately hard; (Bass Islands Group).										
			91.7				92		488		DOLOMITE; gray; micritic; fresh; strong; moderately hard; banded; (Bass Islands Group).										
PQ	14	5.0	5.0	2.4	100	48	93		487		highly fractured @ 91.0-91.5' 0° J, T, No, No, PI, SR @ 91.4', 91.5' 0.01' thick black shale parting @ 91.7' contorted bedding @ 91.8-92.6'										
							94		486		0° J, VN, No, No, PI, SR @ 92.5', 92.8', 93.0', 93.2', 93.5', 94.0', 94.05', 94.1', 94.5', 95.0', 95.1', 95.2', 95.7' 0° J, VN, CI, Pa, WA, SR @ 93.7', 96.2' 90° J, T, No, No, PI, SR @ 94.2-94.5'	Core box #8 starts @ 93.3'.									
			96.7				96		484		highly fractured @ 96.0-96.1' contorted bedding @ 96.3-96.6' 0° J, VN, No, No, PI, SR @ 96.4', 96.6'										
							97		483		0° J, VN, No, No, PI, SR @ 96.8', 97.1', 97.2', 97.7', 97.8'										
							98		482		15° J, VN, No, No, PI, SR @ 97.5' 90° J, T, No, No, PI, SR @ 97.5-98.6'										
PQ	15	5.0	5.0	2.9	100	58	99		481		0° J, VN, No, No, PI, SR @ 99.1', 99.5', 99.8' 90° J, T, No, No, PI, SR @ 99.4-100.2',										
							100		480		0° J, VN, No, No, PI, SR @ 100.0', 100.2' 80° V, N, Ca, Fi, PI, SR @ 100.2-101.4'										
							101		479		0° J, VN, No, No, PI, SR @ 100.9', 101.5' 70° V, N, Ca, Fi, PI, SR @ 100.9-101.4' 90° J, T, No, No, PI, SR @ 101.5-101.7', 101.7-102.3'										
			101.7				102		478		grading massive; no banding @ 101.7'	Water level @ 15.1' prior to drilling on 06/16/07.									
							103		477		90° J, T, No, No, PI, SR @ 102.4-103.1'	Core box #9 starts @ 101.7'.									
							104		476		0° J, T, No, No, PI, S @ 102.9', 103.1' 90° J, T, No, No, PI, SR @ 103.1-103.8'										
PQ	16	5.0	4.9	4.5	98	90	105		476		70° J, T, No, No, PI, SR @ 104.4-105.0'										

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 8 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GO</i>	CHECKED BY <i>EM</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							105		475		90°, J, T, No, No, PI, SR @ 105.0-105.2', 105.4-105.6', 105.6-106.3', 111.2-111.7'	
							106		474		40°, J, T, No, No, PI, SR @ 105.2-105.4' 0°, J, VN, No, No, PI, SR @ 105.4' 0°, J, VN, Ca, Fi, PI, SR @ 106.1' 30°, J, VN, Ca, Fi, PI, SR @ 106.5-106.6'	
			106.7				107		473		grades 5% vugs @ 107.3' 50°, J, T, No, No, PI, SR @ 107.3-107.5', 107.4-107.6',	
							108		472			
PQ	17	5.0	5.0	4.2	100	84	109		471		70°, J, VN, Ca, Pa, PI, SR @ 109.1-109.9'	
							110		470		unit has ~10° dip @ 110.0'	
							111		469		75°, J, VN, No, No, PI, SR @ 110.5-111.1' breccia; indurated w/some rounded clasts @ 110.8-111.0'	
			111.7				112		468		15°, J, VN, No, No, PI, SR @ 111.1', 115.3' 90°, J, T, No, No, PI, SR @ 111.2-111.4', 111.8-113.2' 25°, J, VN, No, No, PI, S @ 111.2' 60°, V, VN, Ca, Fi, PI, SR @ 111.4-111.6'	Core box #10 starts @ 111.7'
							113		467		BRECCIA; indurated; dolomite clasts in dolomite matrix; gray to brownish gray; micritic to very coarse grained; slightly weathered; strong; moderately hard; (Bass Islands Group).	
PQ	18	5.0	4.0	0.0	80	0	114		466		0°, J, VN, No, No, PI, SR @ 112.1', 113.1', 113.7' highly fractured @ 112.1-115.3' 50°, J, T, No, No, PI, SR @ 113.2-113.8', 113.7-114.2' 30°, J, VN, No, No, PI, SR @ 113.5-113.6' 90°, J, T, No, No, PI, SR @ 114.1-115.4'	
							115		465		DOLOMITE; gray; micritic; fresh; strong; moderately hard; banded; (Bass Islands Group).	
							116		464		0°, J, VN, No, No, PI, SR @ 114.8' 40°, J, T, No, No, PI, SR @ 114.9-115.1', 115.0-115.5'	
			116.7				117		463		highly fractured @ 116.7-118.2'	
							118		462		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; moderately hard; banded; (Salina Group - Unit F).	
							119		461		90°, J, T, No, No, PI, SR @ 117.4-117.7' 0°, J, VN, No, No, PI, SR @ 117.7', 118.0', 118.2' 90°, J, T, No, No, PI, SR @ 118.0-118.2'	
PQ	19	5.0	3.9	0.0	78	0	119		461		SHALE; dark gray; fresh; weak; friable; (Salina Group - Unit F).	
							120		461		SHALE; dolomitic; interbedded w/DOLOMITE;	



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 9 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							120		460		argillaceous; dark gray, brownish gray to gray; micritic; fresh; weak; friable to moderately hard; banded; vugs to 1.5" filled w/calcite; (Salina Group - Unit F). 40°, J, T, No, No, PI, SR @ 119.5-119.7'		
			121.7				121		459		90°, J, VN, No, No, PI, SR @ 119.7-120.5', 120.0-120.5', 120.6-121.2', 120.8-121.1', 123.2-123.9' 0°, J, VN, No, No, PI, SR @ 119.7'	Core box #11 starts @ 121.7'.	
PQ	20	5.0	3.9	1.1	78	22	122		458		highly fractured @ 120.7-121.3' 0°, J, VN, No, No, PI, SR @ 120.9', 120.8', 120.7', 120.2', 123.1', 123.7', 123.9'		
							123		457		40°, J, VN, No, No, PI, SR @ 121.2-121.4' highly fractured @ 121.7-122.5'		
							124		456		45° J, VN, No, No, PI, SR @ 122.6-122.8'		
							124		456		DOLOMITE; argillaceous; (Salina Group - Unit F).		
							125		455		SHALE; brownish gray to dark gray; fresh; weak; friable to moderately hard; interbedded w/thin anhydrite partings; (Salina Group - Unit F). highly fractured @ 124.3-125.2'		
							126		454		90°, J, VN, No, No, PI, SR @ 125.9-126.5', grades black; strong; w/calcite & anhydrite crystals @ 126.1'		
			126.7				127		453		SHALE; brownish gray to dark gray; fresh; weak; friable; interbedded w/dolomitic shale & anhydrite; (Salina Group - Unit F).		
							128		452		0°, J, VN, No, No, PI, SR @ 127.0', 127.4', 128.6', 128.9' highly fractured @ 127.5-127.7', 128.1-128.3'		
PQ	21	5.0	4.8	3.2	96	64	129		451		SHALE; dolomitic; gray; fresh; moderately strong; low hardness; (Salina Group - Unit F).		
							130		450		90°, J, VN, No, No, PI, SR @ 130.0-131.1', 131.5-131.7' 0°, J, VN, No, No, PI, SR @ 130.2', 130.9'		
							131		449		0°, J, VN, No, No, PI, SR @ 131.1', 131.3', 131.5'		
							132		448		highly fractured @ 131.7-133.6'	Core box #12 starts @ 131.7'. Possible core loss @ 131.7'-133.6'	
			131.7				133		447				
PQ	22	5.0	3.3	0.5	66	10	134		446		0°, J, VN, No, No, PI, SR @ 133.6', 133.8' 90°, J, VN, No, No, PI, SR @ 133.6-133.8', 134.0-134.6' highly fractured @ 133.8-134.0' grades weak, friable @ 134.0'		
							135		446		40°, J, VN, No, No, PI, SR @ 134.4-134.6'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 10 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GOO</i>	CHECKED BY Dogbey/Ohlmacher <i>GOO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							135		445				
							136		444				
			136.7				137		443				
							138		442				
PQ	23	5.0	3.0	0.0	60	0	139		441				
							140		440				
							141		439				
			141.7				142		438				
							143		437				
PQ	24	5.0	4.5	1.7	90	34	144		436				
							145		435				
							146		434				
			146.7				147		433				
							148		432				
							149		431				
PQ	25	5.0	3.5	1.3	70	26	150						

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DOLOMITE; argillaceous; gray; micritic; fresh (upper 0.2' moderately weathered); strong; moderately hard; banded; (Salina Group - Unit F).  
highly fractured @ 135.3-135.6'  
0°, J, VN, No, No, PI, SR @ 135.6', 135.7', 136.0'  
90°, J, T, No, No, PI, SR @ 135.8-136.4', 137.1-137.4'  
highly fractured @ 136.7-138.1'

SHALE; dolomitic; greenish gray; fresh; weak; friable; crumbly; (Salina Group - Unit F).

highly fractured @ 141.7-142.0'  
90°, J, VN, No, No, PI, SR @ 142.0-142.4'  
0°, J, VN, No, No, PI, SR @ 142.0'

highly fractured shale, VC @ 143.0-144.5'

0°, J, VN, No, No, PI, SR @ 144.7', 145.1', 145.4', 145.7', 145.9'  
70°, J, VN, No, No, PI, SR @ 145.4-145.6'  
thin parting; anhydrite w/shale @ 145.4-145.6'  
highly fractured shale @ 145.7-145.9'

DOLOMITE; argillaceous; bluish gray; micritic; fresh; strong; moderately hard; medium bedded; (Salina Group - Unit F).  
highly fractured @ 146.7-147.1'  
0°, J, VN, No, No, PI, SR @ 147.1', 147.5'  
70°, J, VN, No, No, PI, SR @ 147.1-147.4'  
highly fractured @ 147.5-147.9'

SHALE; dolomitic; greenish gray; fresh; weak; friable; parting; (Salina Group - Unit F).  
0°, J, VN, No, No, PI, SR @ 147.9'  
70°, J, VN, No, No, PI, SR @ 147.9-148.1', 149.4-149.9'

Core loss possibly due to washout.

Core box #13 starts @ 144.4'.



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 11 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GPO</i>	CHECKED BY <i>F. P. Dobbey</i> Dobbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							150		430		highly fractured @ 148.6-149.4'	
							151		429		argillaceous dolomite band @ 151.0-151.1' highly fractured @ 151.1-151.7'	
			151.7				152		428		bluish gray dolomite band; highly fractured @ 152.0-152.2'	Water level @ 14.9' prior to drilling on 06/17/07.
PQ	26	5.0	3.3	0.9	66	18	153		427		bluish gray argillaceous dolomite band; highly fractured @ 153.0-153.1' 90°, J, VN, No, No, PI, SR @ 153.0-153.1' 55°, J, VN, No, No, PI, SR @ 153.2-153.6' 0°, J, VN, No, No, PI, SR @ 153.8', 155.3'	
							154		426		40°, J, VN, No, No, PI, SR @ 155.1-155.3' 90°, J, VN, No, No, PI, SR @ 155.7-156.0',	
			156.7				155		425			
							156		424			
							157		423		dark bluish gray; argillaceous dolomite band @ 157.1-157.2'	Core box #14 starts @ 156.7'.
							158		422		dark bluish gray; thin argillaceous dolomite bed @ 157.8-158.2' 90°, J, VN, No, No, PI, SR @ 157.8-158.2'	
PQ	27	5.0	2.9	1.6	58	32	159		421		dark bluish gray; argillaceous dolomite band @ 159.1-159.2'	
							160		420		dark bluish gray; argillaceous dolomite band @ 160.0-160.2' highly fractured @ 160.0-161.2'	
							161		419		argillaceous dolomite band @ 161.0-161.2'	
			161.7				162		418		dark bluish gray dolomite band @ 161.7-161.8'	
							163		417			
							164		416		DOLOMITE; argillaceous; greenish gray; (Salina Group - Unit F). 90°, J, VN, No, No, PI, SR @ 163.0-163.2', 163.5-164.1' highly fractured @ 163.2-164.1'	
PQ	28	5.0	2.4	0.0	48	0	165		416		SHALE; dolomitic; greenish gray; fresh; weak; friable;	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 12 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>606</i>		CHECKED BY <i>606</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							165		415		(Salina Group - Unit F). dark bluish gray; thin dolomite bed @ 165.0-165.4' highly fractured @ 165.0-165.4'		
							166		414				
			166.7				167		413				
PQ	29	5.0	0.8	0.0	16	0	168		412				
							169		411		dark bluish gray; thin argillaceous dolomite bed @ 169.2-169.5'		
							170		410				
							171		409				
			171.7				172		408				
							173		407		bluish gray; thin argillaceous dolomite bed; highly fractured @ 172.7-173.0'		
PQ	30	5.0	3.0	1.1	60	22	174		406		90°, J,T,No,No,PI,SR @ 174.0-174.1', 177.4-177.9' dark bluish gray; dolomitic shale band @ 174.0-174.1' 20°, J,T,No,No,PI,SR @ 174.1'		
							175		405		BRECCIA; shale & dolomite clasts in poorly indurated claystone matrix; dark bluish gray; micritic to very coarse; fresh; weak; low hardness; (Salina Group - Unit F).		
							176		404		BRECCIA; dolomitic shale clasts in poorly indurated to indurated argillaceous carbonate matrix; light brownish gray (clasts); dark bluish gray (matrix); micritic to very coarse; fresh; weak; moderate hardness; (Salina Group - Unit F).		
			176.7				177		403		0°, J,VN,No,No,PI,S @ 176.5'	Core box #15 starts @ 176.7'.	
							178		402		LIMESTONE; crystalline; very dark grayish brown; vuggy; micritic; slightly weathered; strong; hard; banded; (Salina Group - Unit F).		
							179		401		SHALE; greenish gray; fresh; weak; friable; (Salina Group - Unit F).		
PQ	31	5.0	1.5	0.0	30	0	180		401		dark bluish gray; argillaceous dolomite band; highly		

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# BORING LOG

BORING NO. RB-C8

SHEET 13 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
							180					fractured @ 179.5-179.7'	Driller reported a water level drop.
							181						
			181.7				182					20°, J, VN, No, No, PI, SR @ 182.5-182.6', 182.2-182.3'	
PQ	32	5.0	3.9	1.6	78	32	183					<b>BRECCIA</b> ; shale, siltstone, & dolomite clasts in poorly indurated calcareous claystone matrix; dark bluish gray; vuggy; micritic to very coarse grained; fresh; very weak; friable; banded; clasts are rounded to angular; elongate; siltstone clasts are very pale brown; (Salina Group - Unit F).	
							184					0°, J, VN, No, No, PI, SR @ 183.6', 183.7', 185.7'	
							185					highly fractured @ 184.2-185.2'	
							186					20°, J, VN, No, No, PI, SR @ 185.3-185.4'	
							187					65°, J, VN, No, No, PI, SR @ 185.5-186.2'	
			186.7				188					brown; thin argillaceous limestone bed; vuggy @ 186.3-186.7'	
PQ	33	5.0	4.0	1.0	80	20	189					30°, J, VN, No, No, PI, SR @ 186.3-186.5'	
							190					90°, J, VN, No, No, PI, SR @ 186.5-186.7'	
							191					0°, J, VN, No, No, PI, SR @ 186.5', 187.1'	
							192					30°, J, VN, No, No, PI, SR @ 187.2-187.4'	
							193					highly fractured @ 187.3-188.1'	
							194					40°, J, VN, No, No, PI, R @ 187.8-188.1'	
							195					0°, J, VN, No, No, PI, SR @ 188.3'	
							196					20°, J, VN, No, No, PI, SR @ 188.7-188.5', 189.7-189.9'	
							197					0°, J, VN, No, No, PI, SR @ 189.0'	
							198					20°, J, VN, No, No, PI, SR @ 189.7-189.9'	
							199					70°, J, VN, No, No, PI, R @ 189.7-190.1'	
							200					highly fractured @ 190.0-190.2'	
							201					0°, J, VN, No, No, PI, SR @ 190.3'	
							202					clay filled void @ 190.3-190.6'	
							203					30°, J, VN, No, No, PI, SR @ 190.4-190.5'	Core box #16 starts @ 191.1'.
							204					<b>DOLOMITE</b> ; argillaceous; brown; banded; 5% vugs; (Salina Group - Unit F).	
							205					0°, J, T, No, No, PI, S @ 190.9'	
							206					0°, J, VN, No, No, PI, SR @ 191.1'	
							207					<b>BRECCIA</b> ; shale, siltstone, & dolomite clasts in poorly indurated calcareous claystone matrix; dark bluish gray; vuggy; micritic to very coarse grained; fresh; very weak; friable; banded; clasts are rounded to angular; elongate; siltstone clasts are very pale brown; (Salina Group - Unit F).	
PQ	34	5.0	3.2	0.0	64	0	208					191.7'	
							209					<b>LIMESTONE</b> ; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	
							210					192.5'	

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# BORING LOG

BORING NO. RB-C8

SHEET 14 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GCO</i>	CHECKED BY <i>Tom Pe</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							195		385		bluish gray; thin argillaceous dolomite bed; micritic @ 193.5-193.8' 90°, J, VN, No, No, PI, SR @ 193.5-193.8' highly fractured @ 193.8-196.0'	
							196		384		DOLOMITE; argillaceous; bluish gray; micritic; massive; (Salina Group - Unit F). 70°, J, T, No, No, PI, SR @ 196.1-196.5', 196.2-196.4'	
		196.7					197		383		LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	Water level @ 22.5' prior to drilling on 06/18/07.
							198		382		DOLOMITE; argillaceous; dark bluish gray; banded; (Salina Group - Unit F). 90°, J, T, No, No, PI, SR @ 197.1-197.6' highly fractured @ 197.1-197.6'	
PQ	35	5.0	2.7	0.6	54	12	199		381		LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).	
							200		380		SHALE; dark bluish gray; fresh; very weak; friable; banded w/dolomite beds; (Salina Group - Unit F).	
							201		379		BRECCIA; poorly indurated; limestone & shale clasts in calcareous claystone matrix; dark bluish gray; coarse to fine grained; fresh; moderately strong; low hardness; vuggy; (Salina Group - Unit F). 60°, VN, No, No, PI, R @ 199.3-199.7'	
		201.7					202		378		SHALE; limey; dark bluish gray; fresh; very weak; friable; (Salina Group - Unit F).	
							203		377		BRECCIA; indurated; claystone & limestone clasts in an argillaceous limestone matrix; dark bluish gray & white; very coarse to fine grained; fresh; strong; low to moderately hard; appears vuggy on surface due to washout of surface clasts; (Salina Group - Unit F).	
PQ	36	5.0	5.0	1.8	100	36	204		376		0°, J, VN, No, No, PI, R @ 201.8', 202.6', 203.1', 203.5', 203.6', 203.7', 205.3', 205.5', 205.8', 206.1', 206.4', 206.6' highly fractured @ 204.3-204.9'	Core box #17 starts @ 204.2'.
							205		375		LIMESTONE; dark greenish gray & brown; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). 80°, J, VN, No, No, PI, R @ 204.7-205.2' 90°, J, N, Ca, Pa, WA, R @ 205.3-206.2'	
		206.7					207		373		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F). 50°, J, VN, Ca, Pa, PI, SR @ 206.1-206.3' 0°, J, VN, No, No, PI, R @ 207.2', 207.4', 208.1', 208.9', 209.2', 209.5'	
							208		372		20°, J, VN, No, No, PI, R @ 207.4' 90°, J, VN, No, No, PI, R @ 207.5-207.9', 209.0-209.1' 15°, J, VN, No, No, PI, R @ 207.7'	
PQ	37	5.0	4.2	0.85	84	17	209		371		LIMESTONE; dark greenish gray; vuggy; banded; (Salina Group - Unit F).	
							210					

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# BORING LOG

BORING NO. RB-C8

SHEET 15 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							210		370		highly fractured @ 208.3-208.7' 90° J, VN, No, No, WA, R @ 210.0-210.4' highly fractured @ 210.4-210.9'	
							211		369		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F). 35° J, VN @ 210.9-211.3' 0° J, VN, No, No, PI, SR @ 211.3', 212.3', 212.5' 90° J, VN, Ca, Fi, PI, SR @ 211.4-211.7', 214.0-214.1' 20° J, T, No, No, PI, SR @ 212.0' 45° J, T, No, No, PI, SR @ 212.2-212.3'	
PQ	38	5.0	4.3	2.1	86	42	212		368			
							213		367		LIMESTONE; greenish gray to brownish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). 0° J, N, No, No, WA, R @ 212.6', 212.7', 214.1', 214.0', 214.6', 214.7', 214.8', 215.2', 215.3', 215.4', 215.7'	
							214		366		DOLOMITE; argillaceous; pale brown; micritic; fresh; moderately strong; moderately hard; massive; (Salina Group - Unit F).	Core box #18 starts @ 214.8'.
							215		365		BRECCIA; indurated; argillaceous dolomite & limestone clasts in argillaceous dolomite matrix; pale brown & gray; fine to coarse grained; fresh; strong; hard; (Salina Group - Unit F). highly fractured @ 214.1-214.3'	
							216		364			
							217		363		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 50° J, VN, No, No, WA, R @ 214.4-214.5', 215.5-215.7' 40° J, N, No, No, WA, R @ 214.5-214.8' grades banded w/shale partings @ 214.7'	
PQ	39	5.0	4.5	0.4	90	8	218		362		LIMESTONE; gray; vuggy; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F). highly fractured @ 215.3-215.8'	
							219		361		BRECCIA; poorly indurated; argillaceous dolomite clasts in dolomitic claystone matrix; brown & gray, fine to coarse grained; fresh; strong; hard; (Salina Group - Unit F). 90° J, N, Ca, Pa, PI @ 216.9-217.1', 217.7-218.0'	
							220		360			
							221		359		DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 0° J, N, No, No, PI, R @ 217.2', 217.3', 217.6', 218.0' highly fractured @ 218.3-219.0'	
							222		358		BRECCIA; poorly indurated; shale & argillaceous dolomite clasts in dolomitic claystone matrix; dark bluish gray; fine to very coarse grained; fresh; strong (clasts); hard (clasts); two fining upward sequences; (Salina Group - Unit F). 0° J, N, No, No, PI, R @ 221.7'	Core loss @ 222.0'.
							223		357			
PQ	40	5.0	1.5	0.0	30	0	224		356		60° J, T, No, No, PI, SR @ 224.1-224.6'	
							225		355			

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# BORING LOG

BORING NO. RB-C8

SHEET 16 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY <i>Geo</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
							225		355			Shale or soft rock ground up, intact dolomite lodged in core barrel
							226		354			
			226.7				227		353		SHALE; poorly indurated; dark bluish gray; fresh; weak; friable; (Salina Group - Unit F).	Water level @ 23.7' prior to drilling on 06/19/07. Core box #19 starts @ 226.7'.
							228		352			
PQ	41	5.0	1.6	0.0	32	0	229		351		BRECCIA; poorly indurated to indurated; dolomite & shale clasts in dolomitic shale matrix; bluish gray; fine to very coarse grained; fresh; weak to strong; moderately hard; medium bedded; fining upward sequences; (Salina Group - Unit F).	Core barrel plugged with clay, shale, & limestone fragments
							230		350			
							231		349			
			231.7				232		348		highly fractured @ 231.7-232.1'	
							233		347		0°, J, VN, No, No, PI, SR @ 232.2', 232.3', 232.5', 232.9'	
PQ	42	5.0	4.5	0.7	90	14	234		346		70°, J, VN, No, No, PI, SR @ 233.2-233.7', 233.5-233.9', 233.7-234.0'	
							235		345		highly fractured @ 233.6-234.1'	
							236		344		grades calcite cemented w/white calcite crystals in vugs (10%) @ 233.8'	
							237		343		15°, J, VN, No, No, PI, SR @ 234.3'	
							238		342		30°, J, T, No, No, PI, SR @ 234.5-234.6'	
							239		341		highly fractured @ 234.9-235.1'	
							240		340		LIMESTONE; brown; vuggy; (Salina Group - Unit F). 0°, J, VN, No, No, PI, SR @ 235.5', 235.9', 236.0', 236.1', 236.2', 236.4'	
PQ	43	5.0	4.4	2.3	88	46	237		343		DOLOMITE; argillaceous; dark bluish gray; micritic; fresh; very strong; moderately hard; banded; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 237.1', 237.3', 237.4', 237.5', 237.6', 237.7'	
							238		342		90°, J, T, No, No, PI, SR @ 237.5-237.7'	
							239		341		grades very pale brown; strong; massive w/shale partings; shells (0.05%); 237.8'	
							240		340		0°, J, VN, No, No, PI, SR @ 237.8', 237.9', 238.0', 238.3', 238.5', 238.9', 239.3'	
											50°, V, N, Ca, Fi, PI, R @ 238.7-238.8'	
											70°, J, T, No, No, PI, SR @ 238.8-239.3'	



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# BORING LOG

BORING NO. RB-C8

SHEET 17 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY <i>Geo</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							240				80° V, VN, Ca, Fi, PI, R @ 238.8-239.3' highly fractured @ 239.6-240.1'	Core box #20 starts @ 240.1'
							241					
							241.7					
							242				grades 5% vugs @ 241.7' 0° J, VN, No, No, PI, S @ 241.8', 242.4', 242.5'(2), 242.8'	
							243				90° J, T, Ca, No, No, PI, SR @ 242.5-243.1' grades 0% vugs @ 242.5'	
							244				LIMESTONE; bluish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). 0° J, VN, No, No, PI, S @ 243.1'	
PQ	44	5.0	4.6	1.8	92	36	244				very closely spaced horizontal fractures @ 243.4-244.1'	
							245				DOLomite; argillaceous; very pale brown; micritic; fresh; strong; moderately hard; massive; w/shale partings; shells (0.05'); (Salina Group - Unit E).	
							246				0° J, VN, No, No, PI, S @ 244.3', 244.6', 244.7', 244.8', 244.9', 245.0', 245.1', 245.7'	
							247				90° J, T, Ca, No, No, PI, SR @ 244.3-244.6' 25° J, VN, No, No, PI, SR @ 245.4-245.5' 70° J, T, No, No, PI, SR @ 246.3-246.5'	
							248				0° B, VN, No, No, PI, SR @ 247.2', 247.7', 248.1'	
							249				75° J, T, No, No, PI, SR @ 248.2-248.7'	
PQ	45	5.0	4.9	4.9	98	98	249				0° B, VN, No, No, PI, SR @ 249.0', 250.5', 250.9'	Core box #21 starts @ 249.0'
							250				90° J, T, No, No, PI, SR @ 249.4-250.4', 250.5-250.9', 251.3-251.6'	
							251				grades to light gray @ 250.7'.	
							252				highly fractured @ 251.7-253.2' shale & argillaceous dolomite; dark bluish gray @ 251.8-252.1'	
							253				grades light brown; banded @ 252.5'	
							254				grades gray; massive @ 253.2' 70° J, T, No, No, PI, SR @ 253.2-253.5' 20° B, VN, No, No, PI, SR @ 253.5', 253.8'	
PQ	46	5.0	4.3	1.4	86	28	254				30% vugs @ 253.7-254.2'	
							255				10° B, VN, No, No, PI, SR @ 254.7'	

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# BORING LOG

BORING NO. RB-C8

SHEET 18 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD						
							255				interbedded bluish gray shale & argillaceous dolomite; shale layers up to 0.05' thick (banded) @ 254.9-255.2'	Core box #22 starts @ 258.9'.
							256				0° B, VN, No, No, PI, SR @ 255.2', 257.0'	
							257				0° V, VN, anhydrite, Fi, PI, SR @ 255.3', 255.4', 255.9', 256.0'	
			256.7				258				anhydrite veins increasing w/depth; dolomite grades banded @ 255.4'	
PQ	47	5.0	4.9	3.8	98	76	259				0° B, N, anhydrite, Fi, PI, SR @ 255.5', 256.1', 256.2'	
							260				0° V, N, anhydrite, Fi, PI, SR @ 256.15'	
							261				highly fractured, VC, veins; anhydrite; over 50% veins; up to narrow aperture @ 256.3-257.0'	
							262				anhydrite vein spacing decreasing @ 257.0'	
							263				thin anhydrite bed @ 257.8-258.2'	
							264				0° J, VN, No, No, PI, R @ 257.8', 259.0'	
							265				grades light brown @ 258.2'	
							266				band of anhydrite @ 258.3-258.4'	
PQ	48	5.0	5.0	5.0	100	100	267				grades 20% anhydrite nodules; moderately wide spaced anhydrite-filled veins; VN @ 258.5'	
							268				grades no anhydrite nodules; no anhydrite veins @ 259.6'	
							269				0° J, VN, No, No, PI, R @ 260.0', 260.7'	
							270				grades grayish brown; massive @ 260.0'	
							271				0° J, VN, anhydrite, Pa, PI, R @ 260.3', 260.8'	
							272				grades very dark bluish gray @ 260.9'	
							273				0° B, VN, No, No, PI, SR @ 261.1', 261.4'	
							274					
							275					
							276					
							277					
							278					
							279					
							280					
							281					
							282					
							283					
							284					
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Water level @ 22.6' prior to drilling on 06/20/07.

Core box #23 starts @ 268.8'.

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 19 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING			LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
							270		310		0° B,T,No,No,WA,S @ 269.7' 15° J,T,No,No,WA,S @ 270.3', 270.9' 0° B,T,No,No,PI,S @ 270.4', 271.0', 271.4'	
							271		309			
			271.7				272		308		0° V,N,anhydrite,Fi,PI,S @ 271.6' light brownish gray; w/anhydrite veins @ 272.0-272.2' 25° J,T,anhydrite,Sp,St,SR @ 272.2-272.3'	
							273		307			
PQ	50	5.0	5.0	4.5	100	90	274		306		0° V,N,anhydrite,Fi,PI,S @ 273.1', 274.4' 10° V,MW,anhydrite,Fi,PI,SR @ 273.3' 10° B,T,No,No,PI,S @ 273.4' 10° B,T,anhydrite,Fi,WA,SR @ 273.8' light brownish gray @ 273.8-274.4'	
							275		305			
							276		304		10° V,N,anhydrite,Fi,PI,SR @ 275.4' light brownish gray; w/anhydrite beds; nodules; veins @ 275.6-278.2' 0° J,VN,No,No,WA,R @ 275.8', 276.4'	
			276.7				277		303		0° J,N,anhydrite,Sp,PI,R @ 277.1'	Core box #24 starts @ 277.1'.
							278		302		0° V,N,anhydrite,Fi,PI,S @ 278.1'	
PQ	51	5.0	5.0	5.0	100	100	279		301		light brownish gray; w/shale partings; 0.1-2.0" spacing @ 279.1-280.3' 0° B,T,No,No,PI,SR @ 279.4', 280.4' 0° V,VN,anhydrite,Fi,WA,S @ 279.5'	
							280		300			
							281		299		black dolomitic shale band @ 281.0-281.2' 0° V,MW,anhydrite,Fi,PI,S @ 281.1' light brownish gray; w/anhydrite nodules @ 281.2-285.0'	
			281.7				282		298		0° V,VN,anhydrite,Fi,PI,SR @ 281.7', 282.3'	
							283		297		0° J,VN,anhydrite,Sp,PI,R @ 282.8' thin anhydrite bed @ 283.1-283.5'	
PQ	52	5.0	5.0	4.6	100	92	284		296		0° B,T,No,No,PI,SR @ 284.1' 90° V,N,anhydrite,Fi,PI,R @ 284.2-285.0', 283.4-284.0' (2)	
							285					





# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 20 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GCC</i>	CHECKED BY Dogbey/Ohlmacher <i>GCC</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							285		295		grades light gray @ 285.0' 0° B,T,No,No,PI,SR @ 285.0' 0° J,T,No,No,PI,SR @ 285.2' grades no fossils @ 285.6' 0° B,T,No,No,PI,R @ 285.7'	
							286		294			
			286.7				287		293		DOLOMITE; crystalline; light gray; micritic; fresh; strong; hard; massive; w/stylolites & black partings spaced 2-3"; (Salina Group - Unit E). 90° V,VN,anhydrite,PI,SR @ 287.3-287.5', 287.9-288.2' anhydrite filled fractures; VC @ 287.4-287.9' 0° B,VN,No,No,PI,SR @ 287.6' anhydrite nodules @ 288.2-288.5' 0° J,T,No,No,St,SR @ 288.6'	Core box #25 starts @ 286.7'
PQ	53	5.0	4.9	4.9	98	98	289		291		0° J,T,No,No,St,SR @ 289.3',289.8'	
							290		290			
							291		291		0° B,VN,No,No,PI,SR @ 290.7' 65° J,VN,anhydrite,Sp,PI,SR; healed @ 290.7-291.3'	
							289		289			
			291.7				292		288		0° B,VN,No,No,PI,SR @ 292.3'	
							293		293		0° J,VN,No,No,WA,SR @ 292.9', 297.1', 298.7'	
							287		287		0° B,VN,No,No,PI,SR @ 293.3',293.8',294.0',294.1'	
PQ	54	5.0	5.0	4.4	100	88	294		286		90° J,T,No,No,PI,SR @ 294.0-294.1' 80° J,T,UK, Sp,PI,SR; healed @ 294.3-295.0'	
							295		295			
							285		285		10° J,N,No,No,PI,SR @ 295.4', 295.6'	
							296		284			
			296.7				297		283			Core box #26 starts @ 296.7'
							298		282		grades dark gray @ 297.7' highly fractured @ 297.8-298.0' 0° B,VN,No,No,PI,S @ 298.0' 5% anhydrite nodules up to 1.3" @ 298.3-298.5' highly veined (fractured) w/anhydrite fill, VC @ 298.5-299.8'	
							299		281		15° J,VN,No,No,PI,SR @ 298.6'	
PQ	55	5.0	5.0	4.8	100	96	299		281			
							300		300			

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 21 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher		CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								300		280		0°, J, VN, No, No, PI, SR @ 300.1'	
								301		279		0°, J, N, No, No, PI, R @ 301.1'	
								302		278			
PQ	56	5.0	5.0	5.0	100	100		303		277		DOLOMITE; dark grayish brown to black; micritic; fresh; strong; hard; banded w/argillaceous dolomite; (Salina Group - Unit E). 10°, J, VN, No, No, PI, SR @ 302.7'	
								304		276		black shale bands @ 303.05-303.1'	
								305		275		0°, B, VN, No, No, PI, S @ 303.4', 305.5', 306.4'	
								306		274		contorted bedding @ 303.5-304.9'	
								307		273		0°, B, VN, No, No, PI, SR @ 304.3', 305.1'	
								308		272		grades dark bluish gray @ 305.2'	
								309		271		black shale band @ 305.4-305.5'	
PQ	57	5.0	5.0	4.6	100	92		310		270		black shale band @ 305.7-305.8'	Core box #27 starts @ 305.1'
								311		269		black shale band @ 306.4'	
								312		268		ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded; w/grayish brown argillaceous dolomite bands; micritic; strong; hard; (Salina Group - Unit E). 0°, V, VN, anhydrite, Fi, PI, SR @ 306.8', 306.85'	
								313		267		0°, J, VN, No, No, PI, SR @ 307.9'	
								314		266		DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit E). 0°, V, N, anhydrite, Fi, PI, SR; healed @ 308.3'	
								315				0°, B, VN, anhydrite, Sp, PI, SR @ 308.9', 309.5', 310.1', 311.1', 311.2', 311.6'	
												0°, J, T, No, No, WA, SR @ 310.4', 314.7'	
												DOLOMITE; bluish gray; micritic; fresh; strong; hard; banded w/argillaceous dolomite; (Salina Group - Unit E). black shale band @ 311.3-311.4'	
												black shale band @ 312.4-312.5'	
PQ	58	5.0	4.9	4.3	98	86						0°, J, VN, No, No, PI, SR @ 312.6', 314.1', 314.5', 314.8'	
												black shale band @ 312.7-312.8'	
												ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded; intermingled w/DOLOMITE; argillaceous; grayish brown; micritic; strong; hard; banded; (Salina Group - Unit E). 0°, J, T, No, No, St, SR @ 313.5'	Core box #28

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# BORING LOG

BORING NO. RB-C8

SHEET 22 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>GOO</i>		CHECKED BY Dogbey/Ohlmacher <i>GOO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							315			265		0° J, VN, No, No, WA, SR @ 315.1' 0° B, VN, No, No, PI, SR @ 315.2', 315.8'	starts @ 314.8'
							316			264			
			316.7				317			263		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit E).	Water level @ 21.8' prior to drilling on 06/21/07.
							318			262		black shale partings @ 318.1-318.3' 0° B, VN, No, No, PI, SR @ 318.2'	
PQ	59	5.0	5.0	4.2	100	84	319			261		ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded (up to 3"); intermingled w/DOLOMITE; argillaceous; gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).	
							320			260		5° J, VN, No, No, PI, SR @ 318.5' thin dolomite bed @ 319.5-319.8' highly fractured @ 319.7-319.8' dolomite band @ 320.4-320.6'	
							321			259		10° J, VN, No, No, St, SR @ 320.7' 0° J, VN, anhydrite, Pa, WA, SR @ 320.9'	
			321.7				322			258		DOLOMITE; gray; (Salina Group - Unit E). highly fractured @ 321.8-321.9' 0° B, VN, No, No, PI, SR @ 322.1'	
							323			257		ANHYDRITE; white to light bluish gray; crystalline; micritic; fresh; very weak; low hardness; thin bedded (up to 3"); intermingled w/DOLOMITE; argillaceous; gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).	
PQ	60	5.0	5.0	4.9	100	98	324			256		10° J, T, No, No, PI, SR @ 323.0' 0° J, VN, No, No, PI, SR @ 323.8', 324.6', 329.2', 329.7', 329.8'	Core box #29 starts @ 324.7'.
							325			255		unknown mineral crystals; very dark grayish brown; up to 0.4" long @ 324.4-324.7'	
							326			254		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; interbedded w/ANHYDRITE; white to light gray; bands; (Salina Group - Unit E). 0° B, VN, No, No, PI, SR @ 325.1'	
			326.7				327			253		DOLOMITE; light brownish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit E).	
							328			252		DOLOMITE; gray w/light brownish gray bands; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit E).	
							329			251		grading dark gray @ 327.0' 0° B, VN, No, No, PI, SR @ 327.0', 328.4' intermingled w/anhydrite bands @ 328.9-329.1'	
PQ	61	5.0	5.0	4.3	100	86	329			251		ANHYDRITE; white to light bluish gray; crystalline;	
							330						

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# BORING LOG

BORING NO. RB-C8

SHEET 23 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>GCO</i>		CHECKED BY <i>GCO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								330		250		micritic; fresh; strong; low hardness; thin bedded; interbedded w/DOLOMITE; banded dark gray to light brownish gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit C).	
								331		249		0°, J, VN, No, No, PI, SR @ 330.5'	
								332		248		0°, J, N, No, No, PI, R @ 331.4', 334.4', 332.3'	Water level @ 22.4' prior to drilling on 06/25/07.
			331.7					333		247		dolomite beds grade clastic; micritic to very coarse grained; composed of several fining upward sequences @ 331.8'	
								334		246		dolomite beds grade crystalline; micritic @ 332.7'	Core box #30 starts @ 333.0'.
PQ	62	5.0	5.0	5.0	100	100		335		245		DOLOMITE; argillaceous; very dark greenish gray; micritic; fresh; strong; hard; massive; slightly mottled color; (Salina Group - Unit C).	
								336		244		anhydrite band @ 334.4-334.5'	
								337		243		0°, V, N, anhydrite, Fi, PI, SR; healed @ 335.0', 344.0' grades dark bluish gray @ 335.2'	
			336.7					338		242		anhydrite nodules; <0.1" @ 336.4'	
								339		241		very dark bluish gray shale band @ 336.8'	
PQ	63	5.0	5.0	4.8	100	96		340		240		0°, J, VN, Cl, Pa, PI, SR @ 336.9'	
								341		239		DOLOMITE; dark bluish gray; crystalline; micritic; fresh; strong; hard; massive; w/anhydrite nodules; (Salina Group - Unit C).	
								342		238		0°, J, T, No, No, PI, SR @ 338.7'	
								343		237		0°, J, N, anhydrite, Pa, PI, SR @ 340.0'	
								344		236		0°, J, T, No, No, PI, SR @ 341.0', 341.1'	
			341.7					345		235		0°, J, VN, No, No, PI, SR @ 341.9', 342.0' grades dark greenish gray @ 341.9'	Core box #31 starts @ 341.7'.
PQ	64	5.0	4.9	4.6	98	92						80°, J, T, No, No, PI, SR @ 342.0-342.6'	
												grades greenish gray @ 342.8-343.1'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 24 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher	CHECKED BY Dogbey/Ohlmacher	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
PQ	65	5.0	5.0	4.7	100	94	345.0		235		DOLOMITE; greenish gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark bluish gray; (Salina Group - Unit C). 0°, J, VN, No, No, PI, R @ 345.4', 347.8' 0°, J, N, anhydrite, Pa, PI, SR @ 346.1' anhydrite nodules up to 0.7"; white to weak red @ 346.2-346.3' 10°, J, N, anhydrite, Pa, PI, SR @ 346.4' 80°, J, T, No, No, PI, SR @ 347.2-347.6'	
			346.7				347		233		anhydrite band; white to weak red @ 348.7-348.8' 0°, J, N, No, No, PI, R @ 348.7'	
							349		231		ANHYDRITE; white to weak red; intermingled w/ dolomite	
							350		230		DOLOMITE; greenish gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark bluish gray; (Salina Group - Unit C). 90°, J, T, No, No, PI, SR @ 349.5-350.6' anhydrite nodules @ 349.7-349.9'	
							351		229			Core box #32 starts @ 351.1'.
			351.7				352		228		DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C). 90°, J, W, dolomite & argillaceous dolomite clasts in anhydrite, Fi, PI, R; healed @ 351.0-352.6'	
PQ	66	5.0	5.0	5.0	100	100	353		227		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/DOLOMITE; argillaceous; dark greenish gray; (Salina Group - Unit C). 0° V, MW, anhydrite, Fi, PI, SR; healed @ 352.6' 70° V, N, anhydrite, Fi, PI, SR; healed @ 353.3' 0° V, W, anhydrite, Fi, PI, SR; healed @ 353.3' 90° V, MW, anhydrite, Fi, PI, SR; healed @ 353.7-354.1' anhydrite nodules up to 0.5" @ 354.1-354.2'	
							354		226			
							355		225		DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C). 15° J, VN, No, No, PI, SR @ 354.7', 356.6' 0° J, VN, No, No, PI, R @ 356.2' 0° V, MW, anhydrite, Fi, PI, SR; healed @ 356.5', 356.7', 357.1'	
			356.7				356		224			
							357		223			
							358		222		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/very dark gray argillaceous dolomite; (Salina Group - Unit C).	
							359		221		DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive (Salina Group - Unit C). 0° J, VN, No, No, PI, R @ 357.8' 25° V, MW, anhydrite, Fi, PI, SR; healed @ 358.1-358.2'	
PQ	67	5.0	5.0	4.9	100	98	360					



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C8

SHEET 25 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GOO</i>	CHECKED BY <i>GOO</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	RQD						
							360		220		DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/very dark greenish gray argillaceous dolomite; (Salina Group - Unit C).	Core box #33 starts @ 360.1'.
							361		219		DOLOMITE; very dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
			361.7				362		218		anhydrite band @ 359.0-359.1' anhydrite band @ 359.4-359.5' 0°, J, VN, No, No, PI, R @ 359.7' anhydrite nodules up to 0.5" @ 360.0-360.1' reddish gray dolomite @ 360.1-360.2' anhydrite band @ 360.2'	
PQ	68	5.0	5.0	4.9	100	98	363		217		10°, V, MW, anhydrite, Fi, PI, SR; healed @ 360.3-360.4'	
							364		216		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C).	
							365		215		0°, J, VN, No, No, St, SR @ 362.5-362.6'	
							366		214		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; w/anhydrite bands; (Salina Group - Unit C).	
			366.7				367		213		10°, J, VN, No, No, PI, SR @ 363.3', 364.8' anhydrite nodules @ 363.6-363.7', 363.8-364.4'	
							368		212		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C).	
PQ	69	5.0	5.0	5.0	100	100	369		211		0°, V, MW, anhydrite, Fi, PI, SR; healed @ 364.5', 365.3', 366.3' thin white to weak red anhydrite bed @ 364.8-365.1'	Core box #34 starts @ 369.8'.
							370		210		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
							371		209		40° V, N, anhydrite, Fi, PI, SR; healed @ 366.3-366.4' ANHYDRITE; intermingled w/dolomite; (Salina Group - Unit C).	
			371.7				372		208		0°, J, VN, No, No, PI, SR @ 366.8'	
							373		207		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).	
							374		206		20° V, N, anhydrite, Fi, PI, SR; healed @ 367.4-367.5' 0° J, VN, No, No, PI, R @ 367.4', 371.0' 30° V, N, anhydrite, Fi, PI, SR; healed @ 367.7-367.8'	
PQ	70	5.0	5.0	4.8	100	96	375		206		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; massive; alternating w/DOLOMITE;	

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# BORING LOG

BORING NO. RB-C8

SHEET 26 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>600</i>	CHECKED BY Dogbey/Ohlmacher <i>600</i>	APPROVED BY Meyer <i>FM</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							375		205		crystalline; dark greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit C). 10° J,N,anhydrite,Fi,PI,R @ 369.7'	
							376		204		90° J,T,anhydrite,Sp,PI,SR @ 370.0-370.8' 80° V,N,anhydrite,Fi,PI,SR; healed @ 370.5-370.8', 371.2-371.4'	
			376.7				377		203		sand & gravel sized clasts of dolomite in fining upward sequences; indurated @ 370.8-371.1' 90° V,N,anhydrite,Fi,PI,R; healed @ 371.5-372.5', 372.8-374.2'	
							378		202		highly fractured @ 371.7-371.8' 25° V,N,anhydrite,Fi,PI,SR; healed @ 372.3-372.4' 20° V,N,anhydrite,Fi,PI,SR; healed @ 372.4-372.5'	
PQ	71	5.0	5.0	5.0	100	100	379		201		DOLOMITE; grayish brown; crystalline; micritic; fresh; strong; hard; banded w/anhydrite; white to weak red; (Salina Group - Unit C).	Core box #35 starts @ 378.6'.
							380		200		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; dark bluish gray; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 373.9 0° V,N,anhydrite,Fi,St,SR; healed @ 374.3-374.4'	
							381		199		DOLOMITE; grayish brown to light brownish gray; crystalline; micritic; fresh; strong; hard; banded w/ anhydrite; (Salina Group - Unit C). anhydrite band @ 374.7-374.9' 0° J,VN,No,No,PI,R @ 375.6'	Water level @ 22.1' prior to drilling on 06/26/07.
			381.7				382		198		DOLOMITE; very dark gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C). 90° V,N,anhydrite,Fi,WA,SR; healed @ 376.2-377.4' anhydrite nodules up to 1.5" length @ 376.2-376.7' 0° J,VN,No,No,PI,R @ 377.1',377.8',378.6',381.2', 388.0'	
PQ	72	5.0	4.9	4.8	98	96	384		196		anhydrite band @ 377.4-377.8' brownish gray; banded @ 378.6-378.9' 10° V,N,anhydrite,Fi,PI,SR; healed @ 379.2' 0° V,N,anhydrite,Fi,PI,SR; healed @ 379.5', 387.2' anhydrite nodules @ 380.0-380.3' anhydrite nodules @ 380.5-380.6' anhydrite band @ 381.0-381.1'	
							385		195		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded w/zones of anhydrite nodules spaced 0.3' apart; zone thickness 0.1'; nodule size up to 3" long; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 381.6' 15° V,N,anhydrite,Fi,PI,SR; healed @ 381.9' 55° V,N,anhydrite,Fi,PI,SR; healed @ 384.0-384.4', 385.0-385.3'	
			386.7				386		194		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded w/zones of anhydrite nodules spaced 0.3' apart; zone thickness 0.1'; nodule size up to 3" long; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 381.6' 15° V,N,anhydrite,Fi,PI,SR; healed @ 381.9' 55° V,N,anhydrite,Fi,PI,SR; healed @ 384.0-384.4', 385.0-385.3'	
							387		193		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded w/zones of anhydrite nodules spaced 0.3' apart; zone thickness 0.1'; nodule size up to 3" long; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 381.6' 15° V,N,anhydrite,Fi,PI,SR; healed @ 381.9' 55° V,N,anhydrite,Fi,PI,SR; healed @ 384.0-384.4', 385.0-385.3'	
							388		192		anhydrite band @ 386.9-387.1' 90° J,T,No,No,PI,SR @ 387.1-387.5', 389.1-389.7'	Core box #36 starts @ 388.0'.
PQ	73	5.0	5.0	5.0	100	100	389		191		DOLOMITE; pale brown; crystalline; micritic; fresh; strong; moderately hard; banded w/anhydrite; white to very dark gray; (Salina Group - Unit C).	
							390		191			

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# BORING LOG

BORING NO. RB-C8

SHEET 27 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>Geo</i>		CHECKED BY <i>Geo</i> Dogbey/Ohlmacher	APPROVED BY <i>SM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							390		190		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded w/anhydrite; white to very dark gray; (Salina Group - Unit C). 90° V,N,anhydrite,Fi,PI,SR; healed @ 389.4-389.7'	
							391		189		DOLOMITE; banded grayish brown, dark bluish gray & brown; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit C). 0° V,N,anhydrite,Fi,PI,SR; healed @ 390.1' 0° J,VN,No,No,PI,SR @ 390.3'	
			391.7				392		188		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded; anhydrite nodules; (Salina Group - Unit C). 0° V,N,anhydrite,Fi,WA,SR; healed @ 392.6' brownish gray; banded w/anhydrite @ 392.7-393.0' 0° B,T,No,No,PI,S @ 392.9' anhydrite band @ 393.3-393.4', 394.7-394.8'	
PQ	74	5.0	5.0	5.0	100	100	393		187		0° J,VN,No,No,PI,SR @ 394.7',395.8' 0° V,MW,anhydrite,Fi,PI,SR; healed @ 394.9'	
							394		186		ANHYDRITE; intermingled w/DOLOMITE; (Salina Group - Unit C).	
							395		185		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; moderately hard; banded; anhydrite nodules; (Salina Group - Unit C).	
			396.7				396		184		DOLOMITE; banded dark bluish gray & brown; crystalline; micritic; fresh; strong; hard; anhydrite band near upper & lower contacts; (Salina Group - Unit C).	
							397		183		DOLOMITE; banded dark bluish gray & dark greenish gray; crystalline; micritic; fresh; strong; hard; anhydrite nodules; dark bluish gray shale partings; (Salina Group - Unit C). 0° J,VN,No,No,PI,SR @ 397.6' 0° V,MW,anhydrite,Fi,PI,SR; healed @ 398.7' 0° J,VN,No,No,PI,SR @ 398.8'	Core box #37 starts @ 397.8'.
PQ	75	5.0	4.8	4.7	96	94	398		182		DOLOMITE; banded brown & dark bluish gray; crystalline; micritic; fresh; strong; hard; anhydrite bands near upper & lower contacts; (Salina Group - Unit C). 90° V,W,anhydrite & dolomite,Fi,PI,R; healed @ 399.8-401.1' 0° J,VN,No,No,PI,SR @ 399.9'	
							399		181		DOLOMITE; banded dark bluish gray & dark greenish gray; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit C). brown dolomite @ 401.8-401.9' 0° J,VN,No,No,PI,SR @ 402.5' 30° V,N,anhydrite,Fi,PI,SR @ 403.5-403.7' 0° J,W,Ci,Pa,WA,R @ 403.5'	
							400		180			
							401		179			
			401.7				402		178			
							403		177			
PQ	76	5.0	5.0	5.0	100	100	404		176			
							405		176			





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# BORING LOG

BORING NO. RB-C8

SHEET 28 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY <i>Geo</i> Dobey/Ohlmacher	APPROVED BY <i>Em</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	77	5.0	5.0	4.9	100	98	405		175		black shale partings interbedded w/dolomite @ 405.1-405.2'	Core box #38 starts @ 406.4'.
							406		174			
			406.7				407		173		90° J,T,No,No,PI,SR @ 407.4-407.8' 0° J,VN,No,No,PI,SR @ 407.4',408.4',410.0' 60° J,T,No,No,PI,SR @ 407.4-407.6'	Core box #39 starts @ 415.2'.
							408		172		anhydrite intermingled w/brown dolomite @ 408.2-408.4'	
							409		171		0° V,N,anhydrite,Fi,PI,SR @ 409.2' anhydrite intermingled w/brown dolomite @ 409.3-409.6'	
							410		170		<u>DOLOMITE</u> ; brown; crystalline; micritic; fresh; strong; hard; banded; 4" anhydrite bed; (Salina Group - Unit C).	
							411		169		0° V,N,anhydrite,Fi,PI,SR @ 410.1' 0° J,VN,No,No,PI,SR @ 410.9'(2 joints), 411.9'(2 joints)	
			411.7				412		168		<u>DOLOMITE</u> ; dark greenish gray; crystalline; micritic; strong; hard; banded; w/some dark greenish gray shale partings; (Salina Group - Unit C).	
							413		167		<u>DOLOMITE</u> ; brown & bluish gray; crystalline; micritic; fresh; strong; hard; banded; w/anhydrite intermingled w/brown dolomite beds near upper & lower contacts; (Salina Group - Unit C).	
PQ	78	5.0	5.0	5.0	100	100	414		166		45° J,T,No,No,PI,SR @ 412.9-413.1' anhydrite nodules @ 413.1-413.4'	
							415		165		<u>DOLOMITE</u> ; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded w/dark greenish gray argillaceous dolomite; (Salina Group - Unit C). anhydrite nodules @ 414.8-415.0' anhydrite nodules @ 415.9-416.1'	
							416		164			
			416.7				417		163		anhydrite nodules @ 416.6-416.8' anhydrite nodules @ 417.0-417.1'	
							418		162		anhydrite nodules @ 417.8-418.0' anhydrite nodules @ 418.2-418.6'	
PQ	79	5.0	5.0	5.0	100	100	419		161		anhydrite intermingled w/dark greenish gray dolomite @ 419.5-419.8'	
							420					

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# BORING LOG

BORING NO. RB-C8

SHEET 29 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

LOGGED BY Ohlmacher <i>GO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							420		160		0°, J, VN, No, No, PI, SR @ 419.5' 0°, V, N, anhydrite, Fi, PI, SR @ 419.8'		
							421		159		DOLOMITE; banded dark brown & brown; crystalline; micritic; fresh; strong; hard; intermingled anhydrite & dolomite beds @ upper & lower contacts; (Salina Group - Unit C). 0°, V, N, anhydrite, Fi, PI, SR; healed @ 420.1'		
			421.7				422		158		DOLOMITE; dark greenish gray; micritic; strong; hard; banded; (Salina Group - Unit C). 0°, V, MW, anhydrite, Fi, PI, SR; healed @ 421.6' anhydrite nodules @ 422.1-422.2', 422.3-422.4'		
PQ	80	5.0	5.0	4.9	100	98	424		156		DOLOMITE; intermingled w/ANHYDRITE; brown, white & dark greenish gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit B). 20°, J, VN, No, No, PI, SR @ 423.4-423.5' 0°, J, VN, No, No, PI, SR @ 424.4'	Core box #40 starts @ 423.5'.	
							425		155		ANHYDRITE; w/DOLOMITE; white & brown; micritic; fresh; strong; low hardness; thin bedded; (Salina Group - Unit B).		
			426.7				427		153		DOLOMITE; dark brown; crystalline; micritic; fresh; strong; hard; banded w/shale partings; (Salina Group - Unit B).	Water level @ 21.9' prior to drilling on 06/27/07.	
							428		152		gray @ 428.0-428.3' anhydrite nodules @ 428.3-428.7'		
PQ	81	5.0	5.0	5.0	100	100	429		151		thin argillaceous dolomite bed; pale brown @ 428.7-429.1'		
							430		150		contorted bedding @ 429.9-430.6'		
							431		149		DOLOMITE; argillaceous; banded greenish black to dark greenish gray; micritic; fresh; strong; hard; shale partings; (Salina Group - Unit B). 0°, V, N, anhydrite, Fi, PI, SR; healed @ 431.3'		
			431.7				432		148		dark greenish gray to very dark greenish gray mottled @ 431.8-432.8' anhydrite nodule @ 431.8-431.9'		
							433		147		10°, V, N, anhydrite, Fi, PI, SR; healed @ 432.8' 0°, V, N, anhydrite, Fi, PI, SR; healed @ 433.0', 435.6'	Core box #41 starts @ 432.8'.	
PQ	82	5.0	5.0	5.0	100	100	434		146		20°, V, N, anhydrite, Fi, WA, SR; healed @ 433.5' anhydrite nodules @ 433.8'		
							435		146		interbedded greenish black & brown @ 434.7-434.9'		

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# BORING LOG

BORING NO. RB-C8

SHEET 30 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GO</i>	CHECKED BY <i>EMR</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
PQ	83	5.0	5.0	4.9	100	98	435		145		DOLOMITE; brown; micritic; fresh; strong; hard; banded; intermingled w/ANHYDRITE; white to very dark gray; (Salina Group - Unit B). 0°, J, VN, No, No, PI, SR @ 435.5', 436.3'	
			436.7				436		144		DOLOMITE; dark greenish gray to very dark gray mottled; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit B). anhydrite nodules @ 437.2-437.8'	
							437		143		DOLOMITE; banded dark greenish gray to very dark gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0°, V, MW, anhydrite, Fi, PI, SR; healed @ 438.0' anhydrite nodules @ 438.3-438.5'	
							438		142		0°, V, N, anhydrite, Fi, WA, SR; healed @ 438.4', 438.6', 439.3'	
							439		141		anhydrite band @ 438.9-439.1' contorted bedding @ 439.1-439.5' anhydrite nodules @ 439.2-439.5' anhydrite band @ 439.5-439.6'	
							440		140		0°, J, VN, No, No, PI, SR @ 439.7' anhydrite nodules @ 439.9-440.3'	
							441		139		15°, J, VN, No, No, PI, SR @ 440.2'	
			441.7				442		138		DOLOMITE; light brownish gray; crystalline; intermingled w/ANHYDRITE; white to gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit B).	Core box #42 starts @ 441.7'.
							443		137		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded; w/greenish gray shale partings; (Salina Group - Unit B). contorted bedding @ 442.0-442.6' anhydrite nodule; 3" in length @ 442.2-442.4'	
PQ	84	5.0	5.0	5.0	100	100	444		136		0°, J, VN, No, No, PI, SR @ 443.1' anhydrite band @ 443.2-443.3'	
							445		135		DOLOMITE; banded brown to light brownish gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0°, J, VN, No, No, PI, SR @ 444.1', 446.2'	
							446		134		anhydrite nodules @ 444.6-444.8' intermingled anhydrite & dolomite @ 444.9-445.2'	
			446.7				447		133		bands up to 3.5" thick; anhydrite; brown; & crystalline dolomite; brown @ 446.5-447.2'	
							448		132		grades light brownish gray @ 447.2'	
							449		131		0°, B, VN, No, No, PI, S @ 447.6', 448.4', 449.0', 449.9'	
PQ	85	5.0	4.8	4.0	96	80	450				stylolites @ 449.5-449.6'	

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# BORING LOG

BORING NO. RB-C8

SHEET 31 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4'	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>Geo</i>	CHECKED BY <i>27/07</i> Dogbey/Ohlmacher	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	86	5.0	5.0	4.7	100	94	450.0		130		DOLOMITE; banded dark greenish gray to light olive gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0° B, VN, No, No, PI, SR @ 451.1', 451.4' grades mottled light olive gray & light brownish gray @ 451.2'	Core box #43 starts @ 451.1'.
			451.7				452		128		DOLOMITE; banded pale brown, gray & dark brown; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B). 0° B, VN, No, No, PI, SR @ 452.5', 453.8' anhydrite band 0.3" thick @ 452.7' anhydrite intermixed w/brown dolomite @ 452.8-453.2'	
							455		125		0° B, VN, No, No, PI, SR @ 454.8'	
							456		124		0° B, VN, No, No, PI, SR @ 455.6'	
			456.7				457		123		anhydrite bands 0.3" thick interbedded w/brown dolomite @ 456.3-456.8' 10° J, VN, No, No, WA, SR @ 456.6'	
PQ	87	5.0	5.0	4.5	100	90	458		122		0° B, VN, No, No, PI, SR @ 457.7'	
							459		121		grades dark gray @ 458.7'	
							460		120			
							461		119		convoluted bedding; shale partings increasing @ 460.6-461.1' 0° B, VN, No, No, PI, SR @ 461.2'	
			461.7				462		118		DOLOMITE; dark brown; crystalline; micritic; fresh; strong; hard; massive; w/brown crystalline dolomite clasts; & shale partings; (Salina Group - Unit B). 0° B, VN, No, No, PI, SR @ 461.5'	
							463		117		DOLOMITE; dark gray; crystalline; micritic; fresh; strong; hard; banded; & shale partings; (Salina Group - Unit B).	
PQ	88	5.0	5.0	4.6	100	92	464		116		anhydrite; intermingled w/brown dolomite @ 462.4-462.6' 0° J, VN, No, No, PI, SR @ 462.7'	
							465				DOLOMITE; banded dark brown, brown & gray;	Core box #44 starts @ 459.8'.

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# BORING LOG

BORING NO. RB-C8

SHEET 32 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6110.9'	GROUND ELEVATION (DATUM) E 4534.4' 580.4 ft (NAVD 88)	TOTAL DEPTH 471.5 (feet)
SURFACE CONDITIONS Gravel parking lot near field		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/28/07

SAMPLING		LOGGED BY Ohlmacher <i>GOO</i>	CHECKED BY <i>Z. Meyer</i> Dogbey/Ohlmacher <i>GOO</i>	APPROVED BY <i>Em</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
		465		115		crystalline; micritic; fresh; strong; hard; w/anhydrite bands; (Salina Group - Unit B). 0°, J, VN, anhydrite, Pa, Pl, R @ 463.1'	
		466		114		DOLOMITE; dark brown; crystalline; micritic; fresh; strong; hard; massive; w/brown crystalline dolomite clasts; & shale partings; (Salina Group - Unit B). 20°, J, VN, No, No, Pl, R @ 463.7'	
		467		113		ANHYDRITE; white to bluish black; micritic; fresh; strong; moderately hard; intermingled w/brown to dark brown crystalline dolomite; (Salina Group - Unit B). 20°, J, VN, No, No, WA, R @ 465.4'	
		468		112		0°, J, VN, No, No, Pl, SR @ 466.3'	
PQ	89	469	5.0	111		DOLOMITE; banded dark brown & brown; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit B). greenish black @ 468.2-469.2'	Core box #45 starts @ 468.5'.
		470		110			
		471		109			
		472		108			Bottom of boring @ 471.5'. Water level @ 19.8' @ completion of drilling. Boring blocked @ 248.0'. Boring cleared to 470' & backfilled w/ bentonite chips to 170' on 09/18/07.
		473		107			Boring backfilled w/bentonite chips to 40' on 09/19/07. Boring backfilled w/ bentonite chips and gravel to surface on 09/21/07.
		474		106			
		475		105			
		476		104			
		477		103			
		478		102			
		479		101			
		480					

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C9

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>C. J. Grainger/Bonnie</i> TB		CHECKED BY <i>M. Dogbey/Bonnie</i> TB	APPROVED BY <i>E. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0					<p>COBBLES - About 65% angular to elongated, very hard cobble w/max size 10"; about 15% fine to coarse, angular, hard gravel w/max size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark gray; strong reaction w/HCl; homogeneous; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p> <p>Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1.</p> <p>Discrete sample collected from S2 @ 14.7-15.0'.</p>
S	1		3.0			1.5	1		580				
							2		579				
							3		578				
							4		577				
							5		576				
							6		575				
S	1A		5.0			0	7		574				
							8		573				
							9		572				
							10		571				
							11		570				
							12		569				
S	2		10.0			2.0	13		568				
							14		567				
							15		566				

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# BORING LOG

BORING NO. RB-C9  
SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY Grainger/Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	6					5.0		30					temporary steel casing advanced w/sampler. Sonic core stored in box.
HQ	1	2.0	2.0	0.0	100	0		31	550				
								32	549				
								33	548				
								34	547				
								35	546				
								36	545				
HQ	2	5.0	5.0	1.5	100	30		37	544				
								38	543				
								39	542				
								40	541				
								41	540				
								42	539				
HQ	3	5.0	5.0	3.0	100	60		43	538				
								44	537				
								45	536				

80°, J, T, No, No, PI, R @ 33.5-34.5'  
 80°, J, T, No, No, PI, R @ 33.6-35.1'  
 0°, J, T, No, No, PI, R @ 33.7'  
 60°, J, T, No, No, WA, R @ 34.2-34.3', 34.1-34.2'  
 0°, J, T, No, No, PI, R @ 34.5', 34.7', 35.2'  
 90°, J, T, No, No, WA, SR @ 35.1-35.5'

DOLOMITE; greenish gray; micritic; fresh; strong; hard; w/shale parting zones of 0.3' spaced at ~ 1.0' intervals; (Bass Islands Group).  
 0°, J, T, No, No, PI, R @ 35.6', 35.9'  
 0°, J, T, No, No, WA, R @ 35.6'  
 0°, J, T, No, No, PI, SR @ 35.8', 36.3'  
 0°, J, T, No, No, PI, R @ 36.0', 36.5'  
 0°, J, T, No, No, PI, R @ 37.1', 37.3', 37.7'

DOLOMITE; crystalline; gray & dark gray, mottled; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).  
 90°, J, T, No, No, PI, SR @ 38.8-39.35'

DOLOMITE; crystalline; light grayish brown; micritic; fresh; strong; hard; 0% to 15% vuggy; fossil molds; w/shale partings; stylolites; (Bass Islands Group).  
 0°, J, T, No, No, PI, R @ 41.3', 41.8', 42.2'  
 90°, J, N, No, No, PI, SR @ 41.6-41.7' (numerous joints)  
 90°, J, T, No, No, PI, R @ 42.2-42.9', 42.6-42.9'  
 0°, J, T, No, No, PI, R @ 42.6', 42.9', 43.5'  
 10°, J, T, No, No, PI, R @ 43.1'

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# BORING LOG

BORING NO. RB-C9

SHEET 4 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI			COORDINATES N 6112.4'		GROUND ELEVATION (DATUM) E 46'16.0'		TOTAL DEPTH 270.5 (feet)					
SURFACE CONDITIONS Gravel parking lot near laydown area				COORDINATE SYSTEM Plant		DATE START 06/14/07		DATE FINISHED 07/15/07				
SAMPLING				LOGGED BY <i>Bob</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>Bob</i> Dogbey/Bonnie <sup>TB</sup>		APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
			45.5				45				10°, J, T, No, No, PI, R @ 45.5', 45.6'	
							46		535		0°, J, T, No, No, PI, SR @ 46.0'	
							47		534		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 47.0'	Core box #2 starts @ 46.5'
HQ	4	5.0	5.0	4.25	100	85	48		533		30°, J, T, No, No, PI, SR @ 47.2-47.5' 50°, J, T, No, No, PI, R @ 47.3-47.4' 60°, J, T, No, No, PI, SR @ 47.6-47.8'	
							49		532		0°, J, T, No, No, PI, SR @ 48.4' 90°, J, VN, No, No, PI, R @ 48.5-48.6' (surface) 0°, J, T, No, No, PI, SR @ 49.0', 49.8' 90°, V, N, UK, Fi, R @ 49.1-49.2'	
							50		531		0°, J, T, No, No, PI, SR @ 50.1', 50.2', 50.4'	
			50.5				51		530		DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, R @ 50.6', 51.1', 51.7'	
							52		529			
HQ	5	5.0	5.0	3.3	100	66	53		528		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Island Group). 30°, J, T, No, No, WA, R @ 52.9'	
							54		527		DOLOMITE; gray & dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group). shale; thin bedded @ 53.2'	
							55		526		DOLOMITE; oolitic; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, R @ 53.6', 54.2', 54.8'	
			55.5				56		525			
							57		524		BRECCIA; healed; light gray; very coarse grained to micritic; fresh; strong; hard; fining upward zones from coarse grained to laminar/convoluted bedding; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 56.2', 56.4' 0°, J, VN, No, No, WA, R @ 56.6', 56.8', 57.1'	
HQ	6	5.0	5.0	2.35	100	47	58		523		fractured @ 57.1-57.2', 57.7-57.8' 90°, J, T, No, No, WA, SR @ 58.0-58.4' 40°, J, T, No, No, PI, R @ 58.4-58.5'	
							59		522		0°, J, T, No, No, PI, SR @ 58.9', 59.7', 59.9'	
							60		521		0.02' thick black shale parting @ 59.4'	

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# BORING LOG

BORING NO. RB-C9

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>C. Lov</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>E. J.</i> Dobbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
HQ	7	0.3	60.5 0.3 60.8	0.0	100	0	60					DOLOMITE; dark gray; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group).	Core box #3 starts @ 60.3'.	
HQ	8	4.7	4.7	2.4	100	51	61					0°, J, VN, No, No, PI, SR @ 61.4' 0°, J, VN, No, No, WA, SR @ 61.5' 10°, J, VN, UK, Pa, SR @ 61.7-61.75' 0°, J, VN, No, No, PI, SR @ 62.2', 62.6', 62.8'		
HQ							62							
HQ							63						0°, J, VN, No, No, PI, SR @ 63.1', 63.3', 63.4', 63.5' grades grayish brown @ 63.2' 25°, J, VN, No, No, WA, SR @ 63.35-63.4'	No drilling fluid return @ 63.0'.
							64						0°, J, VN, No, No, PI, SR @ 64.1', 64.5', 64.6', 65.1'	
							65							
							66						0°, J, VN, UK, Sp, PI, SR @ 66.0' 0°, J, VN, No, No, PI, SR @ 66.2' grades dark gray @ 66.5' grades grayish brown @ 66.8'	Water level @ 20.3' prior to drilling on 07/12/07.
							67						0°, J, VN, No, No, PI, SR @ 67.0', 67.3' 60°, J, VN, No, No, WA, SR @ 67.15-67.25'	
HQ	9	5.0	5.0	4.3	100	86	68						0°, J, VN, No, No, WA, SR @ 68.4'	
							69							
							70						0°, J, N, UK, Pa, R @ 69.6'	
							71							
							72						45°, J, T, No, No, PI, SR @ 71.6-71.8' 50°, J, T, No, No, PI, SR @ 72.0-72.15'	
HQ	10	5.0	5.0	NR	100	NR	73							
							74						0°, J, VN, No, No, PI, SR @ 73.7'	Core box #4 starts @ 73.7'.
							75							

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# BORING LOG

BORING NO. RB-C9

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>Granger/Bonnie</i> <sup>TB</sup>		CHECKED BY <i>Dogbey/Bonnie</i> <sup>TB</sup>	APPROVED BY <i>Meyer</i> <sup>EM</sup>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
			75.5				75					0°, J, VN, No, No, PI, SR @ 75.2', 75.4' 90°, J, T, No, No, PI, SR @ 75.2-75.4'		
							76					0°, J, VN, No, No, PI, SR @ 76.5', 77.8', 78.2'		
HQ	11	5.0	5.0	4.6	100	92	78					0°, J, T, No, No, WA, SR @ 78.7' 20°, J, T, No, No, PI, SR (weathered) @ 79.15-79.2'		
			80.5				80					BRECCIA; indurated; dolomite; partially fining upward sequence; light gray; very coarse grained to micritic; fresh; strong; hard; fining upward from very coarse grained; w/curved bedding; (Bass Islands Group). 10°, J, T, No, No, WA, R @ 79.75', 80.3-80.35' mottled dolomite @ 80.2-80.5'		
							81					SHALE; dark gray; micritic; fresh; moderately hard; weak; (Bass Islands Group).		
HQ	12	5.0	5.0	2.0	100	40	83					DOLOMITE; dark gray; micritic; fresh; strong; hard; (Bass Islands Group). 10°, J, T, No, No, WA, SR @ 80.7', 81.0', 81.1', 81.2' 0°, J, VN, UK, Sp, PI, R @ 81.3', 83.5', 83.8' 90°, J, T, No, No, PI, R @ 81.3-82.0' grades grayish brown @ 81.6' fractured @ 81.8-82.5'		
			85.5				85					80°, J, T, No, No, PI, R @ 84.5-85.2' 70°, J, T, No, No, PI, SR @ 84.6-84.7' 20°, J, VN, UK, Sp, WA, SR @ 84.95-85.1'		
							86					highly fractured @ 85.5-86.1'		
							87					90°, J, T, No, No, WA, SR @ 86.1-86.5' 70°, J, T, No, No, PI, SR @ 86.3-86.5' 0°, J, VN, CI, FI, PI, SR @ 86.5' 0°, J, VN, No, No, PI, SR @ 86.6'	Core box #5 starts @ 86.6'	
HQ	13	5.0	5.0	2.9	100	58	88					30°, J, T, No, No, WA, SR @ 87.45-87.55', 89.4-89.6'		
							89							
							90							

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# BORING LOG

BORING NO. RB-C9

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>6/20/07</i> Grainger/Bonnie		CHECKED BY <i>12/15/07</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							90					DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group). 0°, J, VN, No, No, WA, R @ 89.9'	
			90.5				91			490		0°, J, VN, UK, Fi, PI, SR @ 90.3'	
							92			489		0°, J, VN, No, No, PI, SR @ 90.7', 91.2', 91.3', 91.5', 91.9'	
HQ	14	5.0	5.0	3.1	100	62	93			488		0°, J, VN, No, No, PI, SR @ 92.0', 92.1', 92.2', 92.3', 92.5', 92.6'	
							94			487		0°, J, VN, No, No, PI, SR @ 93.2'	
			95.5				95			486		DOLOMITE; dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°, J, VN, No, No, PI, SR @ 93.2', 94.2', 94.3', 94.6'	
							96			485		90°, J, T, No, No, PI, SR @ 95.3-95.5'	
							97			484		clay band @ 95.8-95.9' 0°, J, T, No, No, PI, SR @ 95.8', 95.9', 96.7', 96.8' 90°, J, T, CI, Fi, PI, SR @ 95.9-96.0', 97.2-97.3' 0°, J, VN, UK, Sp, SR @ 96.5'	
HQ	15	5.0	5.0	3.2	100	64	98			483		0°, J, T, No, No, PI, SR @ 97.2', 97.3', 97.5', 97.6'	
							99			482		0°, J, T, No, No, PI, SR @ 98.2'	
							100			481		grades light brownish gray @ ~ 99.2' 0°, J, VN, CI, Fi, PI, SR @ 99.25' 0°, J, T, No, No, PI, SR @ 99.5', 99.9', 100.1'	
			100.5				101			480		90°, J, T, No, No, PI, SR @ 100.5-100.8'	Core box #6 starts @ 100.5'.
							102			479		10°, J, T, No, No, PI, SR @ 101.6' 0°, J, T, No, No, PI, SR @ 101.8', 102.55' 25°, J, T, No, No, Ir, SR @ 102.0'	
HQ	16	5.0	5.0	4.0	100	80	103			478		25°, J, T, No, No, PI, SR @ 102.7'	
							104			477			
							105			476		0°, J, T, No, No, PI, SR (weathered) @ 104.3'	
												0°, J, T, No, No, PI, SR @ 104.8'	

5/8/2008 9:12 AM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C9  
SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							105						
			105.5				106			475		highly fractured @ 105.5-105.8' clay @ 105.6-105.7' 0°, J, T, No, No, WA, SR @ 105.8' 60°, J, T, No, No, PI, SR @ 106.0-106.6', 106.4-106.9'	
							107			474		90°, J, T, No, No, WA, SR @ 106.9-107.5' 30°, J, T, No, No, Ir, SR @ 107.3-107.5' 0°, J, T, No, No, WA, SR @ 107.5' 60°, J, T, Cl, Pa, WA, SR @ 107.7-108.8' 0°, J, T, No, No, Ir, SR @ 107.8'	
HQ	17	5.0	5.0	2.6	100	52	108			473			
							109			472		anhydrite filled vug @ 109.1' 10°, J, T, No, No, WA, SR @ 109.25'	
			110.5				110			471			
							111			470		fractured @ 111.1-111.3' 80°, J, T, No, No, PI, SR @ 111.3-112.5' 0°, J, T, No, No, PI, SR @ 111.3', 112.1', 112.3'	
							112			469			
HQ	18	5.0	4.5	1.9	90	38	113			468		DOLOMITE; light gray; fresh; strong; hard; (Salina Group - Unit F). calcite vugs @ 112.5' 10°, J, T, UK, Pa, PI, SR @ 113.0'	
							114			467		SHALE; black; coarse grained to micritic; (Salina Group - Unit F).	
							115			466		DOLOMITE; light gray; fresh; strong; hard; (Salina Group - Unit F). 10°, J, T, No, No, Ir, SR @ 115.0'	
			115.5				116			465		clay @ 115.7-115.9' highly fractured @ 115.9-116.0' 90°, J, VN, No, No, Ir, SR @ 116.0-116.2' 0°, J, VN, No, No, PI, SR @ 116.4', 116.6', 116.7', 116.95', 117.15'	Core box #7 starts @ 115.5'
							117			464		fractured @ 117.2-117.4'	
HQ	19	4.6	3.8	0.0	83	0	118			463		DOLOMITE; argillaceous; very dark grayish brown; very fine grained; strong; hard; w/some anhydrite bedding & shale parting; (Salina Group - Unit F).	
							119			462		anhydrite beds (0.2" thick) @ 118.8-119.5' 10°, J, T, No, No, PI, SR @ 119.0', 119.2'	
							120			461		fractured @ 119.5-120.1'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C9  
SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	20	0.4	120.1 0.4 120.5	0.33	100	83	120				0°,J,N,Ci,Fi,PI,SR @ 120.35'	
							121		460		0°,J,VN,No,No,PI,SR @ 121.2' 0°,B,MW,anhydrite,Fi,PI,SR @ 121.5'	
HQ	21	5.0	3.0	0.6	60	12	123		458		DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							124		457		LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							125		456		CLAYSTONE; bluish gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
			125.5				126		455		LIMESTONE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
HQ	22	5.0	2.6	0.0	52	0	128		453		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							129		452		CLAYSTONE; bluish gray; slightly weathered; weak; low hardness; w/interbedded dolomite; (Salina Group - Unit F).	
							130		451		highly fractured @ 129.5-129.9'	
			130.5				131		450			Water level @ 21.9' prior to drilling on 07/13/07.
							132		449		dolomite @ 131.7-132.0' 80°,J,T,No,No,PI,R @ 131.7-132.0'	
HQ	23	5.0	4.3	0.0	86	0	133		448		grades w/interbedded limestone; no dolomite @ 133.0'	
							134		447			Core box #8 starts @ 133.8'.
							135		446		DOLOMITE; grayish brown; micritic; fresh; very strong; hard; (Salina Group - Unit F).	

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# BORING LOG

BORING NO. RB-C9

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> SM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			135.5				135					anhydrite bedding @ 134.9' 90°, J, T, No, No, PI, SR @ 135.2-135.5'	
HQ	24	5.0	2.0	0.0	40	0	136					CLAYSTONE; bluish gray; weak; low hardness; w/ interbedded dolomite; (Salina Group - Unit F).	
			140.5				137						
			140.5				138					DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). highly fractured @ 139.5-139.8' 60°, J, T, No, No, PI, SR @ 140.0-140.4'	
HQ	25	5.0	4.4	0.0	88	0	139					CLAYSTONE; bluish gray; weak; low hardness; w/ interbedded dolomite; (Salina Group - Unit F).	
			145.5				140						
			145.5				141						
							142						
							143						Discrete sample 8A taken from HQ-25 @ 142.75-143.5'.
							144						
							145						Discrete sample 8B taken from HQ-25 @ 144.3-144.7'.
							146						
							147						Discrete sample 8C taken from HQ-26 @ 146.9-147.5'.
HQ	26	5.0	3.0	0.0	60	0	148					clay; soft @ 146.8-147.6' fractured @ 147.3-147.7' fractured @ 148.2-149.0'	
							149						
							150						

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# BORING LOG

BORING NO. RB-C9

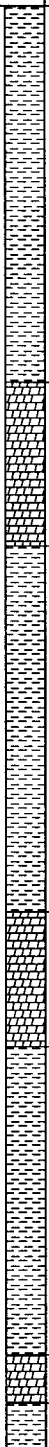
SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>SM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	27	0.7	150.5 0.1	0.0	14	0	150		430				
			151.2				151		429				
HQ	28	4.3	4.0	1.9	93	44	152		428				
							153		427				
							154		426				
							155		425				
							156		424				
HQ	29	5.0	4.9	1.7	98	34	157		423				
							158		422				
							159		421				
							160		420				
							161		419				
HQ	30	5.0	2.1	0.0	42	0	162		418				
							163		417				
							164		416				
							165						

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clay; medium plasticity, high toughness; soft; moist; strong reaction w/HCl @ 151.7-152.1' grades moderately hard @ 152.1'

0°, J, VN, CI, Pa, PI, SR @ 153.5'

153.9  
DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  
0°, J, VN, No, No, Ir, R @ 154.4'  
50°, J, VN, No, No, PI, SR @ 154.9'

155.6  
CLAYSTONE; calcareous; bluish gray; fresh; weak; moderately hard; w/interbedded dolomite dolomite @ 156.0-156.3'

argillaceous dolomite band @ 157.85-158.0'

highly fractured @ 158.9-159.2', 160.2-160.5'

159.4  
DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  
90°, J, VN, No, No, PI, SR @ 159.5-159.8'  
90°, J, VN, CI, PI, SR @ 159.9-160.2'  
60°, J, VN, CI, PI, SR @ 159.9-160.2'

160.8  
CLAYSTONE; non-calcareous; bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).

clay; soft @ 162.2-162.5'

164.0  
DOLOMITE; (Salina Group - Unit F).

164.5  
CLAYSTONE; non-calcareous; bluish gray; fresh;

PP = 0.4 TSF @ 151.7-152.1'. Core box #9 starts @ 152.1'.





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# BORING LOG

BORING NO. RB-C9

SHEET 12 OF 19

CLIENT Detroit Edison	PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6112.4' E 4616.0'	GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)
SURFACE CONDITIONS Gravel parking lot near laydown area	COORDINATE SYSTEM Plant	DATE START 06/14/07
		DATE FINISHED 07/15/07

LOGGED BY <i>Bonnie Grainger</i> TB		CHECKED BY <i>Bonnie Dogbey</i> TB	APPROVED BY <i>5/12 Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
							165					weak; low hardness; (Salina Group - Unit F).	
			165.5				166		415			clay; soft @ 166.5-166.9'	
							167		414			fractured @ 167.4-167.8'	
HQ	31	5.0	2.3	0.0	46	0	168		413			gray @ 168.7-169.9'	
							169		412			fractured @ 169.9-170.4'	
			170.5				170		411				
HQ	32	2.5	1.25	0.0	50	0	171		410			CLAYSTONE; bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	Core box #10 starts @ 170.5'. Water level @ 21.8' prior to drilling on 07/14/07. PP = 0.6 TSF @ 171.5-171.8'.
							172		409			clay; soft @ 171.5-171.8'	
			173.0				173		408				
HQ	33	2.5	0.7	0.0	28	0	174		407			BRECCIA; poorly indurated to indurated claystone matrix; gray; weathered; very weak; low hardness; w/ clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F).	
							175		406				
			175.5				176		405			dolomite; pale brown @ 175.6-176.0' 90°, J, T, No, No, PI, SR @ 175.6-176.0' limestone; greenish gray @ 176.0-176.3' 60°, J, VN, No, No, PI, SR @ 176.1-176.3'	
HQ	34	2.5	2.1	0.0	84	0	177		404				
							178		403			0°, V, MW, Ca, Fi, PI, R @ 178.2'	
			178.0				179		402				
HQ	35	2.5	1.2	0.0	48	0	179		402			limestone band @ 179.1-179.3' claystone band @ 179.3-179.4'	
							180		401				

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# BORING LOG

BORING NO. RB-C9

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Grainger/Bonnie</i> 773	CHECKED BY <i>Dogbey/Bonnie</i> 78	APPROVED BY <i>Meyer</i> 52
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							180					LIMESTONE; (Salina Group - Unit F). -----180.1		
HQ	36	2.5	0.5	0.0	20	0	180.5					BRECCIA; poorly indurated to indurated claystone matrix; gray; micritic; weathered; very weak; low hardness; w/clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F). limestone band @ 181.0-181.2'		
							181			400				
							182			399			limestone band @ 182.4-182.5'	
							183			398				
HQ	37	2.5	2.3	0.0	92	0	183.0					DOLOMITE; (Salina Group - Unit F). 90° J,VN,UK,Fi,PI,SR @ 184.1-184.3' 20° J,N,UK,Fi,PI,SR @ 184.3-184.4'	Discrete sample 10A taken from HQ-37 @ 184.5-185.0'.	
							184			397				
							185			396			BRECCIA; poorly indurated to indurated claystone matrix; gray; weathered; very weak; low hardness; w/ clasts of shaley dolomite; pale brown; micritic; low hardness; & limestone; greenish gray; micritic; (Salina Group - Unit F). dolomite @ 185.2-185.5'	Discrete sample 10B taken from HQ-38 @ 186.7-187.3'.
HQ	38	2.5	1.5	0.0	60	0	185.5							
							186			395				
							187			394				
							188			393				
HQ	39	2.5	1.2	0.0	48	0	188							
							189			392				
							190			391			LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). -----189.7	
							191			390				
HQ	40	2.5	0.5	0.0	20	0	190.5							
							192			389				
							193			388			grades grayish brown @ 193.0'	Core box #11 starts @ 193.0'.
							194			387				
HQ	41	2.5	2.0	0.0	80	0	193.0						DOLOMITE; (Salina Group - Unit F). -----194.0	
							194			386				
							195			386			CLAY; (Salina Group - Unit F). -----194.6	

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# BORING LOG

BORING NO. RB-C9

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							195					LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
HQ	42	2.0	2.0	0.0	100	0	195.5					CLAYSTONE; calcareous; micritic; slightly weathered; weak; low hardness; (Salina Group - Unit F). completely weathered; soft (clay like) @ 195.8-196.4', 197.1-197.3'		
							197					clay bands @ 197.5-197.7', 197.9-198.1'		
HQ	43	3.0	3.0	1.0	100	33	198					brecciated dolomite band @ 198.4'	Discrete sample 11A taken from HQ-43 @ 198.5-199.0'.	
							199					highly fractured @ 199.5-200.0'		
							200							
HQ	44	5.0	2.5	0.8	50	16	200.5					LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).		
							201							
							202							
							203					0°, J, VN, Ca, Pa, PI, SR @ 203.0'		
							204							
							205							Driller reported a sudden drop of about 1' of the drill rod @ 204.5'.
							205.5							
							206						DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). fractured @ 205.7-206.7'	
							207					clay band; white @ 206.7-206.8; 207.1-207.25'		
							208					60°, J, T, No, No, PI, SR @ 207.4-207.5' 20°, J, T, No, No, PI, SR @ 207.5-207.6'		
HQ	45	5.0	4.1	0.0	82	0	208					10°, J, T, No, No, PI, SR @ 208.1' 90°, J, VN, Cl, Pa, PI, SR @ 208.15-208.35' 30°, J, VN, Cl, Pa, PI, SR @ 208.2-208.3'		
							209							
							210						LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). clay; white @ 209.25-209.35'	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>Cooper</i> Grainger/Bonnie	CHECKED BY <i>Cooper</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							210					20°, J, T, No, No, PI, SR @ 209.3'	
			210.5				211					90°, J, T, No, No, PI, SR @ 209.65-209.8', 210.0-210.3'	Core box #12 starts @ 210.5'.
							212					0°, J, VN, Ca, Sp, PI, SR @ 210.7', 210.8', 210.9'	
							213					0°, J, VN, No, No, Ir, SR @ 211.1', 211.5'	
HQ	46	5.0	3.2	1.9	64	38	214					BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/dolomite clasts; (Salina Group - Unit F).	
							215					0°, J, VN, No, No, Ir, SR @ 211.8', 212.3'	Driller reported about 1.0' drop of drill rod @ 213.0-214.0'.
							216					BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).	
			215.5				217					LIMESTONE; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F).	
							218					0°, J, T, No, No, PI, SR @ 214.4'	
							219					60°, J, T, No, No, PI, SR @ 215.2-215.5'; pale brown	
							220					0°, J, VN, No, No, WA, SR @ 216.7'	
HQ	47	5.0	3.5	0.0	70	0	221					DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							222					90°, J, VN, Ca, Pa, WA, SR @ 217.5-219.3'	
							223					0°, J, VN, No, No, PI, SR @ 217.6', 217.8', 218.6', 219.3', 219.5', 220.0'	
							224						
			220.5				225					BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).	Water level @ 25.6' prior to drilling on 07/15/07.
HQ	48	5.0	1.5	0.0	30	0	226					90°, J, T, No, No, PI, S; joint has dolomite on one side & limestone on other @ 222.0-223.5'	
							227						
							228					CLAYSTONE; weak to very weak; w/dolomite partings	Driller reported rapid advancement of drill stem from 223.5-228.5'.

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# BORING LOG

BORING NO. RB-C9

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

LOGGED BY <i>Boo Per</i> Grainger/Bonnie		CHECKED BY <i>Boo Per</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							225						
HQ	49	5.0	2.0	0.0	40	0	228						
							229					Poorly graded SAND with Clay and Gravel (SP-SC) - About 70% sand; about 20% gravel; rounded to subrounded, with max. size 1/2"; about 10% fines; dark to very dark gray; moist; weak; (Salina Group - Unit F)	
HQ	50	5.0	2.0	0.0	40	0	233					DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J,N,Ci,Pa,PI,SR @ 229.5-230.5' highly fractured w/clay infill @ 229.7-230.3'  highly fractured @ 231.5-232.3'  highly fractured @ 232.5-233.7'	
							235					BRECCIA; poorly indurated to indurated; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/ shaley dolomite clasts; (Salina Group - Unit F).	
HQ	51	2.5	1.9	0.3	76	12	237					DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, J,VN,Ci,Pa,PI,SR @ 236.7', 236.9', 237.2', 237.3', 237.4', 237.5', 237.9'	
							238					DOLOMITE; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).	
HQ	52	2.5	1.5	0.4	60	16	239					DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/fossil zones; (Salina Group - Unit E). 0°, J,T,No,No,PI,SR @ 238.8', 239.4', 239.6' 30°, J,T,No,No,PI,SR @ 238.8-239.0' 90°, J,T,No,No,PI,SR @ 239.4-239.6' 60°, J,T,No,No,PI,SR @ 239.6-239.9'	Core box #13 starts @ 235.5'
							240						

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# BORING LOG

BORING NO. RB-C9  
SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 46'16.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>EM</i> Grainger/Bonnie	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			240.5				240					90°, J, T, No, No, PI, SR @ 239.8-240.0', 240.0-240.3'	
							241					0°, J, VN, No, No, PI, SR @ 241.5'	
							242					60°, J, T, No, No, PI, SR @ 242.3-242.7'	
HQ	53	5.0	3.8	1.9	76	38	243					90°, J, VN, No, No, Ir, SR @ 242.5-242.7'	
							244					0°, J, VN, No, No, PI, SR @ 242.55', 242.65'	
							245					65°, J, T, No, No, PI, SR @ 243.1-243.4'	
							246					0°, J, VN, No, No, PI, SR @ 243.4', 243.8'	
							247					90°, J, VN, No, No, PI, SR @ 243.8-244.1'	
							248					0°, J, VN, No, No, PI, SR @ 244.3'	
			245.5				249					0°, J, VN, No, No, PI, SR @ 246.4', 246.65'	
							250					0°, J, VN, No, No, PI, SR @ 247.4'	
HQ	54	5.0	5.0	4.0	100	80	251					90°, J, T, No, No, PI, SR @ 247.4-247.75'	
							252					0°, J, VN, No, No, PI, SR @ 247.65', 250.05'	
							253					30°, J, T, No, No, PI, SR @ 247.8-248.0', 248.7-248.85'	
							254						
			250.5				255						
HQ	55	5.0	1.5	0.0	30	0	253					DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 251.9', 252.1', 252.2', 252.3', 252.4'	Driller reported rapid advancement @ 252.5-255.3'.
							254					90°, J, T, No, No, PI, SR @ 252.4-252.5'	
							255						

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# BORING LOG

BORING NO. RB-C9

SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07
SAMPLING		LOGGED BY <i>Granger/Bonnie</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			255.5				255						
HQ	56	5.0	4.5	2.2	90	44	258					0°, J, VN, CI, Pa, PI, SR @ 256.4', 256.6', 257.2' grades w/gypsum banding @ 256.8'	Core box #14 starts @ 255.5'
							259					0°, J, VN, No, No, PI, SR @ 256.8', 257.5', 257.6'	
							260					0°, J, VN, No, No, PI, SR @ 258.0', 258.15'	
			260.5				261					DOLOMITE; light brownish gray; micritic; fresh; strong; moderately hard; w/gypsum clasts & shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 258.7', 259.1'	
							262					DOLOMITE; gray; micritic; fresh; strong; hard; w/stylolites; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 259.3', 259.4', 259.5', 259.7', 259.8'	
HQ	57	5.0	5.0	3.6	100	72	263					90°, J, T, No, No, PI, SR @ 259.4-259.5' 0°, J, VN, No, No, PI, SR @ 260.3', 260.4' 0°, J, VN, No, No, PI, SR @ 260.8', 261.3', 261.5' 10°, J, VN, No, No, PI, SR @ 261.1'	
							264					DOLOMITE; light brownish gray; hard; w/gypsum clasts & shale partings; (Salina Group - Unit E).	
							265					DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 55°, J, VN, No, No, PI, SR @ 262.2-262.5' 0°, J, VN, No, No, PI, SR @ 262.4', 262.5'	
			265.5				266					DOLOMITE; light brownish gray; micritic; fresh; strong; w/gypsum band & shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 263.1', 263.9', 264.5'	
							267					0°, J, VN, No, No, PI, SR @ 265.5', 265.8', 266.9'	
HQ	58	5.0	5.0	4.5	100	90	268					0°, J, VN, No, No, PI, SR @ 267.2', 267.7', 267.8'	
							269					DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 268.7', 269.4', 269.5', 269.7', 270.1'	
							270						

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# BORING LOG

BORING NO. RB-C9

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6112.4'	GROUND ELEVATION (DATUM) E 4616.0'	TOTAL DEPTH 270.5 (feet)
SURFACE CONDITIONS Gravel parking lot near laydown area		COORDINATE SYSTEM Plant	DATE START 06/14/07	DATE FINISHED 07/15/07

SAMPLING		LOGGED BY <i>EM</i> Grainger/Bonnie	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								270					
								271		310			Bottom of boring @ 270.5'. Water level @ 24.6' at completion of drilling. Backfilled w/ bentonite chips to 40' below ground surface on 09/07/07. Continued w/ bentonite chips to 5' below ground surface then gravel to surface on 09/12/07.
								272		309			
								273		308			
								274		307			
								275		306			
								276		305			
								277		304			
								278		303			
								279		302			
								280		301			
								281		300			
								282		299			
								283		298			
								284		297			
								285		296			

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# BORING LOG

BORING NO. RB-C10

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	50/5	-	-	50+	0.3	0		581			<p>SILT (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).</p> <p>Well graded GRAVEL (GW) - About 90% fine to coarse, subangular to angular, hard gravel w/max. size 2"; about 5% sand; about 5% fines; (Fill).</p> <p>Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy fines; trace fine to coarse sand; trace angular gravel w/max. size 1/2"; gray; hard; moist; firm; homogeneous; slight reaction w/HCl</p>	
SPT	2	3	4	3	7	0.4	6		575				
SPT	3	1	7	8	15	0.4	11		570				
							12		569				
							13		568				
							14		567				
							15						

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# BORING LOG

BORING NO. RB-C10

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	4	4	6	9	15	1.2	15		566			
							16		565			PP = 1.5 STF @ 16.0'
							17		564			
TW	5					2.0	18		563			
							19		562			
							20		561			PP = 1.8 TSF @ 19.5'
SPT	6	2	2	6	8	1.5	21		560			
							22		559			
							23		558			Driller reported possible cobble @ 22.5'
TW	7					1.1	24		557			
							25		556			
SPT	8	44	40	30	70	1.5	26		555			
							27		554			
							28		553			
HQ	1	1.6	1.6	1.6	100	100	28		553			Auger refusal @ 27.4'
							29		552			
							30		552			

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Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; 5% subangular to angular sand; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

grades trace cobbles @ 22.5'

Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, angular to subangular sand; about 10% fine, subangular gravel, fractured w/1 hammer blow; gray to grayish brown; moist; strong reaction w/HCl; homogeneous.

DOLOMITE; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).  
90° J,T,No,No,PI,SR @ 27.8-27.95'  
0°,J,Ci,Sp,VN,Ir,R @ 27.95', 28.65'

DOLOMITE; dark gray; micritic; fresh; strong; hard; w/stylolites; slightly mottled; (Bass Islands Group).  
0°,B,VN,UK,Sp,PI,SR @ 29.5', 29.6', 29.7', 30.15'

PP = 1.5 STF @ 16.0'

PP = 1.8 TSF @ 19.5'

Driller reported possible cobble @ 22.5'

TV = 1.3 TSF @ 25.0'  
PP = 4.0 TSF @ 25.0'

Auger refusal @ 27.4'  
Set nominal 6" temporary steel casing to 28.0'.  
Below 27.4' continued w/ triple tube wire line core barrel



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# BORING LOG

BORING NO. RB-C10

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
HQ	2	5.0	5.0	2.9	100	58	30		551			w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.4'.	
							31		550			90°, J, T, No, No, PI, SR @ 31.25-31.55', 31.5-31.55', 32.5-34.0'	
							32		549			0°, B, VN, UK, Sp, PI, SR @ 31.3', 31.55', 31.6'	
							33		548			0°, B, VN, UK, Sp, PI, SR @ 32.5', 32.8', 33.0', 33.2', 33.3'	
			34.0				34		547			DOLOMITE; dark grayish brown & grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
							35		546			0°, B, VN, No, No, PI, SR @ 34.8', 35.2'	
HQ	3	5.0	5.0	3.75	100	75	36		545			0°, B, VN, UK, Sp, PI, SR @ 35.7', 36.2'	
							37		544			convoluted bedding @ 36.7-37.3'	
							38		543			0°, J, T, No, No, Ir, R @ 37.5' 90°, J, T, No, No, PI, SR @ 37.5-37.9' grades light gray @ 37.8' 0°, B, VN, UK, Sp, PI, SR @ 37.9'	
							39		542			70°, J, T, No, No, PI, SR @ 38.1-34.4' 0°, B, VN, No, No, PI, SR @ 38.3', 38.5'	
			39.0				40		541			DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). 80°, J, T, No, No, PI, SR @ 39.3-39.9'	
							41		540			0°, B, VN, No, No, PI, SR @ 40.7', 41.1'	
HQ	4	5.0	4.6	3.5	92	70	42		539			DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/pitted zones, stylolites & shale partings; (Bass Islands Group). pitted @ 41.3-41.7' 70°, J, T, No, No, PI, SR @ 41.6-41.9' pitted @ 42.15-42.25' pitted @ 42.35-42.4' shale parting - 0°, B, VN, PI, SR @ 42.5' pitted @ 42.6-42.65' pitted @ 42.7-42.75' pitted @ 42.85-43.05'	
							43		538			0°, B, VN, No, No, PI, SR @ 43.3'	
			44.0				44		537			shale parting @ 43.5' 0°, B, VN, No, No, PI, SR @ 44.2' 70°, J, T, No, No, PI, SR @ 44.7-45.6'	
							45						

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# BORING LOG

BORING NO. RB-C10

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>	CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD						
HQ	5	5.0	4.6	0.3	92	6	45		536		0°,B,VN,No,No,PI,SR @ 45.0', 45.2'	
							46		535		70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'	
							47		534		0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'	
							48		533		50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'	
							49		532		0°,B,VN,No,No,PI,SR @ 48.5'	
HQ	6	5.0	5.0	1.0	100	20	49.0		532		anhydrite @ 49.2' shale parting @ 49.5'	
							50		531		shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'	
							51		530			
							52		529		shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3'	
							53		528		shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'	
							54		527		70°,J,T,No,No,PI,R @ 53.3-53.5'	
							54.0		527		<u>DOLOMITE</u> ; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'	Core box #3 starts @ 54.0'
							55		526			
							56		525		30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'	
HQ	7	5.0	5.0	2.7	100	54	54.0		525			
							57		524		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9'	
							58		523		30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'	
							59		522		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7'	
							59.0		522		mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'	
							60		522		90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	8	5.0	4.8	3.4	96	68	60	521	[Pattern]	0°,B,VN,UK,Sp,PI,SR @ 59.4', 59.6', 59.8', 60.1' brecciated, healed @ 60.3-60.4'		
							61	520	[Pattern]	DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°,B,VN,UK,Sp,PI,SR @ 60.6', 61.8', 63.8'	60.5	
							62	519	[Pattern]	10°,J,VN,UK,Sp,PI,SR @ 62.4', 62.5', 62.65', 62.75'		
							63	518	[Pattern]	DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 10°,J,VN,UK,Sp,PI,SR @ 63.2'	62.9	
			64.0				64	517	[Pattern]	0°,B,VN,UK,Sp,PI,SR @ 64.2', 64.5', 64.8', 65.0', 65.25', 65.35', 65.55', 65.8' fractured @ 64.5-64.9'		
HQ	9	5.0	5.0	3.0	100	60	65	516	[Pattern]	90°,J,T,No,No,PI,SR @ 65.0-66.0', 65.25-65.3', 65.35-65.4' highly fractured @ 65.6-65.7'		
							66	515	[Pattern]	60°,J,T,No,No,PI,SR @ 66.0-66.3'		
							67	514	[Pattern]			
							68	513	[Pattern]	0°,B,VN,UK,Sp,PI,SR @ 67.65', 67.8', 67.9'	Core box #4 starts @ 67.9'.	
							69	512	[Pattern]			
			69.0				70	511	[Pattern]	60°,J,T,No,No,PI,SR @ 69.8-70.2'		
HQ	10	5.0	4.8	3.8	96	76	71	510	[Pattern]	DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20°,J,T,No,No,PI,SR @ 71.2-71.3', 71.7-71.9', 72.0-72.2'	70.8	
							72	509	[Pattern]	90°,J,T,No,No,WA,SR @ 71.7-72.0'		
							73	508	[Pattern]			
							74	507	[Pattern]	20°,J,T,No,No,PI,SR @ 73.1-73.3' 0°,B,T,No,No,PI,SR @ 73.1'		
			74.0				75	507	[Pattern]			

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# BORING LOG

BORING NO. RB-C10

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	11	5.0	5.0	3.7	100	74	75	506		60° J,T,Ca,Fi,PI,SR @ 75.7-75.9'	Water level @ 16.1' prior to drilling on 08/21/07.  Core box #5 starts @ 81.3'.		
							76	505		0° B,T,No,No,PI,SR @ 76.3', 77.5'			
							77	504		10° J,VN,Ci,Fi,WA,SR @ 76.8' slightly brecciated, healed @ 77.0-77.3'			
							78	503		10° J,VN,No,No,PI,SR @ 77.6'			
							79	502		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 20° J,T,No,No,PI,SR @ 76.7-76.9' 90° J,T,No,No,PI,SR @ 77.8-78.5', 76.9-77.1' 0° B,T,No,No,PI,SR @ 78.85' 70° J,T,No,No,PI,SR @ 79.3-79.8'			
			79.0				80	501		shale parting - 10° B,N,PI,SR @ 80.1'			
HQ	12	5.0	5.0	3.4	100	68	81	500		SHALE; black; fresh; weak; low hardness; (Bass Islands Group). interbedded w/dolomite @ 80.55-80.65'			
							82	499		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° J,VN,Ci,Sp,PI,SR @ 81.95' 90° J,T,No,No,WA,R @ 81.95-82.9'			
							83	498					
							84	497					
HQ	13	5.0	5.0	3.3	100	66	85	496	DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group). brecciated, healed @ 85.2-85.5' 70° J,T,No,No,Ir,SR @ 85.9-86.3', 88.1-88.4'				
							86	495	0° J,VN,Ca,Sp,PI,S @ 86.5' brecciated, healed @ 86.5-86.9', 87.2-87.5' 45° J,T,No,No,PI,SR @ 86.9-87.0', 87.4-87.5'				
							87	494	10° J,T,Ci,Sp,PI,SR @ 87.5'				
							88	493	0° J,T,No,No,PI,SR @ 88.1'				
							89	492	40° J,T,No,No,PI,SR @ 89.0-89.2' 60° J,T,No,No,PI,SR @ 89.2-89.4' 90° J,T,No,No,PI,SR @ 89.7-89.8'				
			89.0				90	492					

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# BORING LOG

BORING NO. RB-C10

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dobby/Bonnie TB	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	5.0	3.5	100	70	90		491		0°, J, VN, No, No, Ir, R @ 89.7' 10°, J, VN, Cl, Sp, WA, SR @ 89.9' 70°, J, VN, No, No, PI, SR @ 90.1-90.2' 0°, J, VN, No, No, PI, SR @ 90.5' brecciated, healed @ 91.0-91.3'	
			94.0				94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'
HQ	15	5.0	4.9	2.7	98	54	95		486		dolomite; argillaceous; dark gray; micritic; fresh; strong; hard @ 94.9-95.3' 10°, J, VN, No, No, PI, SR @ 95.0' fractured @ 95.2-95.3', 96.4-96.5' grades dark grayish brown @ 95.3' 70°, J, T, No, No, Ir, S @ 95.4-95.5' brecciated, healed @ 95.7-95.8' 0°, B, VN, No, No, PI, SR @ 96.0', 96.3', 96.4'	
			99.0				99		482		10°, J, VN, No, No, PI, SR @ 97.1' 10°, J, VN, No, No, PI, SR @ 97.4'	
							100		481		fractured @ 99.1-99.3' 70°, J, T, No, No, PI, SR @ 99.5-99.7' shale partings - 0°, B, T, PI, SR @ 99.7', 100.6'	
HQ	16	5.0	4.8	3.1	96	62	101		480		0°, B, T, No, No, PI, SR @ 100.5' 70°, J, T, No, No, PI, SR @ 100.6-100.8' 90°, J, VN, Cl, Sp, PI, SR @ 100.6-101.4' shale partings - 0°, B, T, PI, SR @ 101.2', 101.4'	
							102		479		90°, J, T, No, No, PI, SR @ 101.75-101.85' 0°, B, T, No, No, PI, SR @ 101.85'	
							103		478			
			104.0				104		477		shale parting - 0°, B, T, PI, SR @ 103.7'	
							105		477		80°, J, VN, No, No, PI, SR @ 104.3-104.7' 10°, J, VN, No, No, PI, SR @ 104.5', 104.7', 104.8', 104.9'	

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# BORING LOG

BORING NO. RB-C10

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TR</sup>	CHECKED BY Dogbey/Bonnie <sup>TR</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
HQ	17	5.0	4.3	3.3	86	66	105		476		10° J, VN, No, No, PI, SR @ 105.7', 107.1'		
							106		475		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0° J, N, Ca, Fi, PI, SR @ 105.8'		
							107		474		20° J, VN, Cl, Sp, PI, SR @ 105.9'		
							108		473		30° J, VN, No, No, PI, SR @ 107.0'		
							109		472		50° J, VN, No, No, PI, SR @ 107.9-108.1'	Core box #7 starts @ 109.0'	
HQ	18	5.0	4.1	1.7	82	34	110		471				
							111		470		50° J, VN, No, No, PI, SR @ 110.7-110.9', 111.2-111.4' fractured @ 110.8-111.3'		
							112		469		90° J, T, anhydrite, Pa, PI, SR @ 111.6-113.1'		
							113		468		0° J, VN, No, No, PI, SR @ 111.6'		
							114		467		30° J, VN, No, No, PI, SR @ 111.7-112.0'		
							115		466		0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'		
							116		465		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'		
HQ	19	5.0	2.9	0.4	58	8	117		464				
							118		463		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'		
							119		462		shale parting @ 116.0'		
							120		461		shale partings - 0° B, VN, PI, SR @ 116.7', 117.05', 117.3', 117.4', 117.7', 117.9'		
											90° J, T, Ca, Pa, PI, SR @ 116.7-119.0'		
											50° J, T, No, No, PI, SR @ 118.1-118.3'		
											shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'		

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# BORING LOG

BORING NO. RB-C10

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>	CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	20	5.0	1.0	0.0	20	0	120		461				
							121		460				
							122		459			anhydrite @ 122.2-122.5'	
							123		458				
							124		457				
HQ	21	2.5	1.5	0.4	60	16	125		456				
							126		455				
							127		454				
HQ	22	2.5	1.6	0.4	64	16	128		453				
							129		452				
							130		451				
HQ	23	2.5	2.0	0.0	80	0	131		450				
							132		449				
							133		448				
HQ	24	2.5	1.4	0.0	56	0	134		447				
							135		447				

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Core box #8 starts @ 129.0'



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# BORING LOG

BORING NO. RB-C10

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	25	2.5	0.7	0.0	28	0	135		446				
							136		445				
							137		444				
HQ	26	2.5	0.5	0.0	20	0	138		443		DOLOMITE; gray; (Salina Group - Unit F) 90° J,T,No,No,PI,SR @ 137.5-137.9' 0° J,T,No,No,PI,SR @ 137.7' 40° J,T,No,No,PI,SR @ 137.75-137.9'		
							139		442		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).		
HQ	27	2.5	0.5	0.0	20	0	140		441		DOLOMITE; gray; (Salina Group - Unit F) 70° J,T,No,No,PI,SR @ 140.1-140.2' 50° J,T,No,No,PI,SR @ 140.1-140.3' fractured @ 140.25-140.4' 90° J,T,No,No,PI,SR @ 140.4-140.5' (2)		
							141		440				
HQ	28	2.5	1.2	0.5	48	20	142		439		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). 90° J,VN,No,No,PI,SR @ 142.1-142.4' dolomite; gray @ 142.1-142.4'	Water level @ 21.6' prior to drilling on 08/22/07.	
							143		438				
							144		437				
HQ	29	2.5	0.4	0.0	16	0	145		436				
							146		435				
							147		434		limestone band; dark gray; micritic; band; fresh; strong; hard; 15% vuggy @ 147.0-147.2'		
HQ	30	2.5	0.8	0.0	32	0	148		433		dolomite band; gray @ 147.8-148.0'		
							149		432		dolomite band; gray @ 148.5-148.7' 90° J,T,No,No,PI,SR @ 148.5-148.7'		
							150						

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# BORING LOG

BORING NO. RB-C10

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

LOGGED BY Bonnie <sup>TB</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	31	2.5	0.0	0.0	0	0	150		431				
							151		430				
			151.5				152		429			limestone; dark gray @ 152.0-152.3'	
HQ	32	2.5	1.1	0.0	44	0	153		428			limestone; dark gray @ 152.9-153.2'	
			154.0				154		427			dolomite; gray @ 154.4-154.7'	
HQ	33	2.5	1.7	1.4	68	56	155		426			BRECCIA; dolomite clasts in a poorly indurated to indurated claystone matrix; light brownish gray; fresh; w/clasts of dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
			156.5				157		424				
HQ	34	2.5	1.2	0.35	48	14	158		423			dolomite; gray @ 158.0-158.2'	
			159.0				159		422				
HQ	35	2.5	0.5	0.35	20	14	160		421				Core box #9 @ 159.0'.
			161.5				161		420				
HQ	36	2.5	1.3	0.0	52	0	162		419			0° B,T,No,No,PI,SR @ 162.4', 162.6', 163.3', 163.6'	
							163		418			dolomite; gray @ 162.4-162.8'	
							163.3					90° J,T,No,No,PI,SR @ 162.6-162.8', 163.3-163.8'	
			164.0				164		417			DOLOMITE; gray; (Salina Group - Unit F)	
							163.8					BRECCIA; dolomite clasts in a poorly indurated to indurated claystone matrix; light brownish gray; fresh; w/clasts of dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							165						

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# BORING LOG

BORING NO. RB-C10

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	37	2.5	0.1	0.0	4	0	165		416		dolomite band; gray @ 165.0-165.2		
							166		415				
			166.5				167		414				
HQ	38	2.5	0.15	0.0	6	0	168		413		dolomite band; gray @ 167.7-167.9'		
			169.0				169		412				
HQ	39	2.5	0.0	0.0	0	0	170		411				
			171.5				171		410				
							172		409				
HQ	40	2.5	0.0	0.0	0	0	173		408				
			174.0				174		407				
HQ	41	2.5	0.8	0.0	32	0	175		406		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F).		
			176.5				176		405				
							177		404		0°,B,VN,No,No,PI,SR @ 177.1'		
HQ	42	2.5	1.9	1.1	76	44	178		403		LIMESTONE; grayish brown; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 0°,B,VN,No,No,PI,SR @ 177.7', 178.2'		
			179.0				179		402				
							180		402		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &		

Water level @ 22.3' prior to drilling on 08/23/07.

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# BORING LOG

BORING NO. RB-C10

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dodgey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	43	2.5	0.2	0.0	8	0	180		401		grayish brown; strong; hard; (Salina Group - Unit F).		
							181		400				
			181.5				182		399				
HQ	44	2.5	0.0	0.0	0	0	183		398				
							184		397				
			184.0				185		396				
HQ	45	2.5	0.0	0.0	0	0	186		395				
							187		394				
			186.5				188		393		limestone band; very dark gray; fresh; strong; hard @ 187.4-187.6'		
HQ	46	2.5	0.2	0.0	8	0	189		392				
							190		391				
			189.0				191		390		LIMESTONE; dark gray; fresh; strong; hard (Salina Group - Unit F)		
							192		389		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F).		
			191.5				193		388		dolomite; light gray/pale yellow; micritic; fresh; strong; hard @ 192.3-192.7' 40°, J, VN, No, No, PI, SR @ 192.4'		
HQ	48	2.5	1.5	0.0	60	0	194		387		LIMESTONE; dark gray; micritic; fresh; 10% vuggy (Salina Group - Unit F) 30°, J, VN, No, No, PI, SR @ 193.1-193.2', 193.3-193.4'		
							195		387		90°, J, VN, No, No, WA, R @ 194.7-196.4'		

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# BORING LOG

BORING NO. RB-C10

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TR</sup>	CHECKED BY Dobby/Bonnie <sup>TR</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	49	2.5	1.7	0.0	68	0	195		386		fractured @ 194.7-195.5'	
							196		385		80°, J, VN, No, No, PI, SR @ 195.5-195.7'	
			196.5				197		384		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F). large clasts of limestone @ about 197.5'	
HQ	50	2.5	1.0	0.0	40	0	198		383			
			199.0				199		382			Core box #10 starts @ 199.0'.
							200		381			
HQ	51	5.0	2.45	1.4	49	28	201		380			
							202		379			
							203		378			
			204.0				204		377		BRECCIA; dolomite clasts in a poorly indurated to indurated limestone matrix; dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). clasts flushed out @ 203.8-204.0'	
							205		376			
							206		375			
HQ	52	5.0	2.7	0.9	54	18	207		374		limestone @ 206.7-207.1'	
							208		373		dolomite band; grayish brown @ 207.4-207.55'	
			209.0				209		372		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/limestone bands; (Salina Group - Unit F). shale partings - 0°, B, VN, PI, SR @ 208.15', 208.3', 208.5'	
							210		371		90°, J, VN, No, No, PI, SR @ 208.2-209.0'	
											0°, B, VN, No, No, PI, SR @ 208.7'	Rough drilling @ 209.0-212.0'.

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# BORING LOG

BORING NO. RB-C10

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer Em
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	53	5.0	2.9	0.0	58	0	210		371			
							211		370		limestone band; brownish gray @ 211.0-211.2' 90° J, VN, No, No, PI, SR @ 211.2-211.75', 212.8-213.0' grades w/fossils @ 211.2' 0° B, VN, No, No, PI, SR @ 211.4', 212.1', 212.5', 212.8', 213.1' 65° J, VN, No, No, PI, SR @ 211.75-211.5' limestone; brownish gray/gray @ 212.5-212.8'	
							212		369			
							213		368			
							214		367		LIMESTONE; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F)	
							215		366		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). fractured @ 214.5-215.0' 90° V, N, UK, Fi, PI, SR @ 215.1-215.3' 10° J, VN, UK, Fi, PI, SR @ 215.3' convoluted bedding; w/brecciation @ 215.5-215.7' 60° J, VN, No, No, PI, SR @ 215.7-216.1' grades gray @ 215.7'	
HQ	54	5.0	2.9	0.95	58	19	216		365		0° B, VN, No, No, PI, SR @ 216.0', 216.1', 216.2', 216.3'	
							217		364		LIMESTONE; very dark grayish brown; micritic; fresh; strong; hard (Salina Group - Unit F). fractured @ 216.5-217.5'	
							218		363		60° J, VN, No, No, PI, SR @ 217.8-218.2' 0° B, VN, UK, Sp, PI, SR @ 218.1'	
							219		362		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). grades light brownish gray @ 218.3' 90° J, VN, No, No, PI, SR @ 218.4-218.6' shale parting - 0° B, VN, PI, SR @ 218.4', 218.6' grades dark grayish brown @ 218.6'	
							220		361		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).	
							221		360			
HQ	55	5.0	1.2	0.0	24	0	222		359		shale partings - 0° B, VN, PI, SR @ 221.7', 222.0', 222.2', 222.4'	
							223		358		breccia; limestone matrix; dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; grayish brown; micritic; fresh; strong; hard @ 222.5-222.8' 40° J, VN, No, No, PI, SR @ 222.8-223.0'	
							224		357			
							225		357			

Water level @  
23.3' prior to  
drilling on  
08/24/07.

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# BORING LOG

BORING NO. RB-C10

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	56	2.5	0.3	0.0	12	0	225		356		limestone band; dark gray @ 225.0-225.1' dolomite band; gray @ 225.1-225.4' 30°, J, VN, No, No, PI, SR @ 225.2-225.3', 225.3-225.4'	
							226		355			
HQ	57	2.5	0.3	0.0	12	0	227		354		dolomite band; gray @ 227.0-227.1' limestone band; dark gray @ 227.1-227.2' dolomite band; gray @ 227.2-227.4' 10°, J, VN, No, No, PI, SR @ 227.2', 227.4' 90°, J, VN, No, No, PI, SR @ 227.25-227.35'	
							228		353			
							229		352			Core box #11 starts @ 229.0'
HQ	58	2.5	0.4	0.0	16	0	230		351		dolomite band; gray @ 230.0-230.4'	
							231		350			
							232		349			
HQ	59	2.5	0.7	0.0	28	0	233		348		DOLOMITE; gray; (Salina Group - Unit F) fractured @ 232.4-232.8' 0°, B, VN, CI, Sp, PI, SR @ 232.8'	
							234		347		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).	
							235		346		grades claystone; gray; slightly weathered; very weak; soft; w/clasts of dolomite; gray @ 234.5	
HQ	60	2.5	1.1	0.0	44	0	236		345		LIMESTONE; dark gray; (Salina Group - Unit F). fractured @ 235.0-235.8' 0°, B, VN, No, No, PI, SR @ 235.0', 235.8', 236.0'	
							237		344		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 70°, J, VN, No, No, PI, SR @ 235.8-236.0'	
HQ	61	2.5	1.9	1.0	76	40	238		343		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F). dolomite band; light grayish brown; 5% vuggy @ 237.1-237.2'	
							239		342		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, VN, No, No, PI, SR @ 237.3', 237.55', 237.7' shale partings @ 237.7', 237.75'	
							240		342		DOLOMITE; light brownish gray; micritic; fresh;	

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# BORING LOG

BORING NO. RB-C10

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
HQ	62	5.0	4.5	2.0	90	40	240		341		strong; hard; w/fossils; (Salina Group - Unit E). shale partings - 0°, B, VN, PI, SR @ 237.8', 238.2', 238.9' fossils @ 237.75-237.7', 238.3-238.4', 238.75-238.9' 70°, J, VN, No, No, PI, R @ 239.4-239.7' 60°, J, VN, No, No, PI, SR @ 239.7-240.0' 80°, J, T, No, No, Ir, R @ 240.8-241.7' fossils @ 241.3-244.0' 55°, J, T, No, No, PI, SR @ 241.5-241.7' 20°, J, T, No, No, PI, SR @ 241.7-241.8' 90°, J, T, No, No, PI, SR @ 241.8-242.1' 10°, J, T, No, No, PI, SR @ 242.05-242.1' 0°, B, T, No, No, PI, SR @ 242.7', 243.3', 243.4', 243.5'		
HQ	63	5.0	4.8	3.7	96	74	244.0		337		shale partings - 0°, B, VN, PI, SR @ 244.2', 245.4', 246.35' fossils @ 244.4-244.8', 245.0-245.45', 246.2-246.4', 246.6-247.3' 10°, J, T, No, No, PI, SR @ 245.1' 90°, J, T, No, No, PI, SR @ 245.1-245.2' shale partings @ 245.45', 245.55', 245.65' 0°, B, T, No, No, PI, SR @ 245.6', 246.85' 80°, J, T, No, No, PI, SR @ 246.7-246.85'		
HQ	64	5.0	5.0	4.8	100	96	249.0		332		fossils @ 248.0-248.6' fossils @ 248.8-250.2' 0°, J, VN, No, No, PI, SR @ 250.6' 0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'	Core box #12 starts @ 249.0'	
							251.0		330		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							251.4		329		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							252.9		328		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							254.0		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		
							254.5		327				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TP</sup>		CHECKED BY Dogbey/Bonnie <sup>TP</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	65	5.0	4.8	4.1	96	82	255		326		DOLomite; grayish brown; micritic; fresh; strong; hard; w/shale & gypsum partings; (Salina Group - Unit E). convoluted bedding @ 254.5-255.1' 20°, J, VN, CI, FI, PI, S @ 255.7-256.0'		
							256		325		DOLomite; gray to grayish brown; micritic; fresh; strong; hard; w/gypsum nodules & veins along w/shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 257.4'		
							257		324		DOLomite; grayish brown; micritic; fresh; strong; hard; w/gypsum bands, nodules, & shale partings; (Salina Group - Unit E). 0°, B, VN, CI, FI, PI, SR @ 257.95', 260.05', 260.1' 0°, J, VN, No, No, PI, SR @ 259.2', 259.3'	Core box #13 starts @ 259.0'	
HQ	66	1.1	1.1	0.65	100	59	259		322		claystone band @ 259.95-260.5' 0°, J, VN, No, No, PI, S @ 260.7'		
							260		321		DOLomite; gray; micritic; fresh; strong; hard; w/shale parting; (Salina Group - Unit E). 0°, J, VN, No, No, PI, S @ 261.3', 262.1'		
HQ	67	3.9	3.9	3.7	100	95	262		319		DOLomite; light brownish gray; micritic; fresh; strong; hard; w/gypsum veins parting & shale parting; (Salina Group - Unit E). 20°, V, W, Gy, FI, PI, S @ 262.5-262.6', 262.8-262.9', 263.85-263.95' pale yellow @ 262.6-263.0' 0°, J, VN, No, No, PI, S @ 262.8', 263.45', 263.8' light gray @ 263.1-263.5' 0°, V, MW to W, Gy, FI, PI, S @ 264.0' 0°, J, VN, Gy, Sp, PI, SR @ 264.2', 264.8', 264.9'	Very Hard drilling @ 262'	
							261		320		DOLomite; brownish gray; micritic; fresh; strong; hard; w/gypsum veins & nodule, anhydrite veins, & shale partings; (Salina Group - Unit E). 0°, V, MW to W, Gy, FI, PI, S @ 265.4', 266.2-266.4', 266.5-266.6', 266.8-266.9' 0°, J, VN, Gy, Sp, PI, SR @ 265.8', 266.9' 0°, V, MW, anhydrite, FI, PI, S @ 266.4', 266.55' convoluted bedding w/gypsum nodules @ 267.1-267.4'		
							263		318		DOLomite; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0°, J, VN, Gy, Sp, PI, SR @ 267.5'		
							264		317		DOLomite; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).		
HQ	68	5.0	5.0	4.7	100	94	266		315				
							265		316				
							267		314				
							268		313				
							269		312				
							270						

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# BORING LOG

BORING NO. RB-C10

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7'					GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)					TOTAL DEPTH 271.3 (feet)					
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant					DATE START 08/14/07					DATE FINISHED 08/25/07					
SAMPLING										LOGGED BY Bonnie <sup>TB</sup>					CHECKED BY Dogbey/Bonnie <sup>TB</sup>					APPROVED BY Meyer <sup>EM</sup>					
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS				
HQ	69	2.3	2.3	2.1	100	91	270		311		shale parting - 0°,B,VN,Sp,Pl,S @ 270.55'														
							271		310		shale parting - 0°,B,VN,Sp,WA,S @ 270.7'														
							272		309												Bottom of Boring @ 271.3'. Water level @ 22.7' @ completion of drilling. Boring caved @ 139.2'. Boring backfilled from 271.3' w/ bentonite chips to 50' below ground surface on 09/11/07. Continued w/ bentonite chips to 10' below ground surface on 09/20/07. Continued w/ bentonite chips to 3' below ground surface, then gravel to surface on 09/21/07.				
							273		308																
							274		307																
							275		306																
							276		305																
							277		304																
							278		303																
							279		302																
							280		301																
							281		300																
							282		299																
							283		298																
							284		297																
							285																		



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	50/5	-	-	50+	0.3	0		581			<p>SILT (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).</p> <p>Well graded GRAVEL (GW) - About 90% fine to coarse, subangular to angular, hard gravel w/max. size 2"; about 5% sand; about 5% fines; (Fill).</p> <p>Fat CLAY (CH) - About 90% high plasticity, high toughness, no dilatancy fines; trace fine to coarse sand; trace angular gravel w/max. size 1/2"; gray; hard; moist; firm; homogeneous; slight reaction w/HCl</p>	
SPT	2	3	4	3	7	0.4	6		575				
SPT	3	1	7	8	15	0.4	11		570				
							12		569				
							13		568				
							14		567				
							15						

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# BORING LOG

BORING NO. RB-C10

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY E. Meyer for Dogbey/Bonnie TB	APPROVED BY E. Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	4	4	6	9	15	1.2	15		566			
							16		565			PP = 1.5 STF @ 16.0'
							17		564			
TW	5					2.0	18		563			
							19		562			
							20		561			PP = 1.8 TSF @ 19.5'
SPT	6	2	2	6	8	1.5	21		560			
							22		559			
							23		558			Driller reported possible cobble @ 22.5'
TW	7					1.1	24		557			
							25		556			
SPT	8	44	40	30	70	1.5	26		555			
							27		554			
							28		553			
HQ	1	1.6	1.6	1.6	100	100	28		553			Auger refusal @ 27.4'. Set nominal 6" temporary steel casing to 28.0'. Below 27.4' continued w/ triple tube wire line core barrel
							29		552			
							30		552			

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Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; 5% subangular to angular sand; brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

grades trace cobbles @ 22.5'

Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, angular to subangular sand; about 10% fine, subangular gravel, fractured w/1 hammer blow; gray to grayish brown; moist; strong reaction w/HCl; homogeneous.

DOLOMITE; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).  
90° J,T,No,No,PI,SR @ 27.8-27.95'  
0°,J,Ci,Sp,VN,Ir,R @ 27.95', 28.65'

DOLOMITE; dark gray; micritic; fresh; strong; hard; w/stylolites; slightly mottled; (Bass Islands Group).

0°,B,VN,UK,Sp,PI,SR @ 29.5', 29.6', 29.7', 30.15'



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
HQ	2	5.0	5.0	2.9	100	58	30		551				w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.4'.
							31		550				
							32		549				
							33		548				
							34		547				
HQ	3	5.0	5.0	3.75	100	75	35		546				
							36		545				
							37		544				
							38		543				
							39		542				
HQ	4	5.0	4.6	3.5	92	70	40		541				
							41		540				
							42		539				
							43		538				
							44		537				
							45		537				

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>	CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD						
HQ	5	5.0	4.6	0.3	92	6	45		536		0°,B,VN,No,No,PI,SR @ 45.0', 45.2'	
							46		535		70°,J,T,No,No,PI,SR @ 45.9-46.9' 0°,B,VN,No,No,PI,SR @ 46.2', 46.6', 46.7', 46.85'	
							47		534		0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'	
							48		533		50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'	
							49		532		0°,B,VN,No,No,PI,SR @ 48.5'	
HQ	6	5.0	5.0	1.0	100	20	49.0		532		anhydrite @ 49.2' shale parting @ 49.5'	
							50		531		shale partings - 0°,B,T,SR @ 49.6',49.8',49.9',50.3' 90°,J,T,No,No,PI,SR @ 50.0-50.4', 51.0-52.0'	
							51		530			
							52		529		shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3'	
							53		528		shale partings - 0°,B,T,SR @ 52.1',52.8',53.5',53.8' 50°,J,T,No,No,PI,SR @ 52.5-53.0'	
							54		527		70°,J,T,No,No,PI,R @ 53.3-53.5'	
							54.0		527		<u>DOLOMITE</u> ; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'	Core box #3 starts @ 54.0'
							55		526			
							56		525		30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'	
HQ	7	5.0	5.0	2.7	100	54	54.0		525			
							57		524		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9'	
							58		523		30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'	
							59		522		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7'	
							59.0		522		mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'	
							60		522		90°,J,T,No,No,PI,SR @ 58.05-58.2' banded @ 58.4-58.5' grades light grayish brown @ 59.3' convoluted bedding @ 59.3-60.5'	

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BORING LOG

BORING NO. RB-C10

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	8	5.0	4.8	3.4	96	68	60		521		0°,B,VN,UK,Sp,PI,SR @ 59.4', 59.6', 59.8', 60.1' brecciated, healed @ 60.3-60.4'	
							61		520		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°,B,VN,UK,Sp,PI,SR @ 60.6', 61.8', 63.8'	
							62		519		10°,J,VN,UK,Sp,PI,SR @ 62.4', 62.5', 62.65', 62.75'	
							63		518		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 10°,J,VN,UK,Sp,PI,SR @ 63.2'	
			64.0				64		517		0°,B,VN,UK,Sp,PI,SR @ 64.2', 64.5', 64.8', 65.0', 65.25', 65.35', 65.55', 65.8' fractured @ 64.5-64.9'	
HQ	9	5.0	5.0	3.0	100	60	65		516		90°,J,T,No,No,PI,SR @ 65.0-66.0', 65.25-65.3', 65.35-65.4' highly fractured @ 65.6-65.7'	
							66		515		60°,J,T,No,No,PI,SR @ 66.0-66.3'	
							67		514			
							68		513		0°,B,VN,UK,Sp,PI,SR @ 67.65', 67.8', 67.9'	Core box #4 starts @ 67.9'.
			69.0				69		512			
							70		511		60°,J,T,No,No,PI,SR @ 69.8-70.2'	
HQ	10	5.0	4.8	3.8	96	76	71		510		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20°,J,T,No,No,PI,SR @ 71.2-71.3', 71.7-71.9', 72.0-72.2'	
							72		509		90°,J,T,No,No,WA,SR @ 71.7-72.0'	
							73		508			
							74		507		20°,J,T,No,No,PI,SR @ 73.1-73.3' 0°,B,T,No,No,PI,SR @ 73.1'	
			74.0				75		507			

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# BORING LOG

BORING NO. RB-C10

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING						
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	11	5.0	5.0	3.7	100	74	75	506		60° J,T,Ca,Fi,PI,SR @ 75.7-75.9'	Water level @ 16.1' prior to drilling on 08/21/07.  Core box #5 starts @ 81.3'.		
							76	505		0° B,T,No,No,PI,SR @ 76.3', 77.5'			
							77	504		10° J,VN,Ci,Fi,WA,SR @ 76.8' slightly brecciated, healed @ 77.0-77.3'			
							78	503		10° J,VN,No,No,PI,SR @ 77.6'			
							79	502		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 20° J,T,No,No,PI,SR @ 76.7-76.9' 90° J,T,No,No,PI,SR @ 77.8-78.5', 76.9-77.1' 0° B,T,No,No,PI,SR @ 78.85' 70° J,T,No,No,PI,SR @ 79.3-79.8'			
			79.0				80	501		shale parting - 10° B,N,PI,SR @ 80.1'			
HQ	12	5.0	5.0	3.4	100	68	81	500		SHALE; black; fresh; weak; low hardness; (Bass Islands Group). interbedded w/dolomite @ 80.55-80.65'			
							82	499		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° J,VN,Ci,Sp,PI,SR @ 81.95' 90° J,T,No,No,WA,R @ 81.95-82.9'			
							83	498					
							84	497					
HQ	13	5.0	5.0	3.3	100	66	85	496	DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group). brecciated, healed @ 85.2-85.5' 70° J,T,No,No,lr,SR @ 85.9-86.3', 88.1-88.4'				
							86	495	0° J,VN,Ca,Sp,PI,S @ 86.5' brecciated, healed @ 86.5-86.9', 87.2-87.5' 45° J,T,No,No,PI,SR @ 86.9-87.0', 87.4-87.5'				
							87	494	10° J,T,Ci,Sp,PI,SR @ 87.5'				
							88	493	0° J,T,No,No,PI,SR @ 88.1'				
							89	492	40° J,T,No,No,PI,SR @ 89.0-89.2' 60° J,T,No,No,PI,SR @ 89.2-89.4' 90° J,T,No,No,PI,SR @ 89.7-89.8'				
			89.0				90	492					

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# BORING LOG

BORING NO. RB-C10

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY <i>DM</i> Dobbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	14	5.0	5.0	3.5	100	70	90		491		0°, J, VN, No, No, Ir, R @ 89.7' 10°, J, VN, Cl, Sp, WA, SR @ 89.9' 70°, J, VN, No, No, PI, SR @ 90.1-90.2' 0°, J, VN, No, No, PI, SR @ 90.5' brecciated, healed @ 91.0-91.3'	
			94.0				94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'
HQ	15	5.0	4.9	2.7	98	54	95		486		dolomite; argillaceous; dark gray; micritic; fresh; strong; hard @ 94.9-95.3' 10°, J, VN, No, No, PI, SR @ 95.0' fractured @ 95.2-95.3', 96.4-96.5' grades dark grayish brown @ 95.3' 70°, J, T, No, No, Ir, S @ 95.4-95.5' brecciated, healed @ 95.7-95.8' 0°, B, VN, No, No, PI, SR @ 96.0', 96.3', 96.4'	
			99.0				99		482		10°, J, VN, No, No, PI, SR @ 98.5', 98.9'	
							100		481		fractured @ 99.1-99.3' 70°, J, T, No, No, PI, SR @ 99.5-99.7' shale partings - 0°, B, T, PI, SR @ 99.7', 100.6'	
HQ	16	5.0	4.8	3.1	96	62	101		480		0°, B, T, No, No, PI, SR @ 100.5' 70°, J, T, No, No, PI, SR @ 100.6-100.8' 90°, J, VN, Cl, Sp, PI, SR @ 100.6-101.4' shale partings - 0°, B, T, PI, SR @ 101.2', 101.4'	
							102		479		90°, J, T, No, No, PI, SR @ 101.75-101.85' 0°, B, T, No, No, PI, SR @ 101.85'	
							103		478			
			104.0				104		477		shale parting - 0°, B, T, PI, SR @ 103.7'	
							105		477		80°, J, VN, No, No, PI, SR @ 104.3-104.7' 10°, J, VN, No, No, PI, SR @ 104.5', 104.7', 104.8', 104.9'	

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# BORING LOG

BORING NO. RB-C10

SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TR</sup>	CHECKED BY Dogbey/Bonnie <sup>TR</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
HQ	17	5.0	4.3	3.3	86	66	105		476		10° J, VN, No, No, PI, SR @ 105.7', 107.1'		
							106		475		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0° J, N, Ca, Fi, PI, SR @ 105.8'		
							107		474		20° J, VN, Cl, Sp, PI, SR @ 105.9'		
							108		473		30° J, VN, No, No, PI, SR @ 107.0'		
							109		472		50° J, VN, No, No, PI, SR @ 107.9-108.1'	Core box #7 starts @ 109.0'	
HQ	18	5.0	4.1	1.7	82	34	110		471				
							111		470		50° J, VN, No, No, PI, SR @ 110.7-110.9', 111.2-111.4' fractured @ 110.8-111.3'		
							112		469		90° J, T, anhydrite, Pa, PI, SR @ 111.6-113.1'		
							113		468		0° J, VN, No, No, PI, SR @ 111.6'		
							114		467		30° J, VN, No, No, PI, SR @ 111.7-112.0'		
							115		466		0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'		
							116		465		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'		
HQ	19	5.0	2.9	0.4	58	8	117		464		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'		
							118		463		shale parting @ 116.0'		
							119		462		shale partings - 0° B, VN, PI, SR @ 116.7', 117.05', 117.3', 117.4', 117.7', 117.9'		
							120		461		90° J, T, Ca, Pa, PI, SR @ 116.7-119.0'		
											50° J, T, No, No, PI, SR @ 118.1-118.3'		
											shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'		

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# BORING LOG

BORING NO. RB-C10

SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>	CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	20	5.0	1.0	0.0	20	0	120		461				
							121		460				
							122		459			anhydrite @ 122.2-122.5'	
							123		458				
							124		457				
HQ	21	2.5	1.5	0.4	60	16	125		456				
							126		455				
							127		454				
HQ	22	2.5	1.6	0.4	64	16	128		453				
							129		452				
							130		451				
HQ	23	2.5	2.0	0.0	80	0	131		450				
							132		449				
							133		448				
HQ	24	2.5	1.4	0.0	56	0	134		447				
							135		447				

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Core box #8 starts @ 129.0'



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# BORING LOG

BORING NO. RB-C10

SHEET 10 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 581.1 ft (NAVD 88) 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	25	2.5	0.7	0.0	28	0	135		446				
							136		445				
							137		444				
HQ	26	2.5	0.5	0.0	20	0	138		443		DOLOMITE; gray; (Salina Group - Unit F) 90°, J, T, No, No, Pl, SR @ 137.5-137.9' 0°, J, T, No, No, Pl, SR @ 137.7' 40°, J, T, No, No, Pl, SR @ 137.75-137.9'		
							139		442		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).		
HQ	27	2.5	0.5	0.0	20	0	140		441		DOLOMITE; gray; (Salina Group - Unit F) 70°, J, T, No, No, Pl, SR @ 140.1-140.2' 50°, J, T, No, No, Pl, SR @ 140.1-140.3' fractured @ 140.25-140.4' 90°, J, T, No, No, Pl, SR @ 140.4-140.5' (2)		
							141		440				
							142		439		CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).		
HQ	28	2.5	1.2	0.5	48	20	143		438		90°, J, VN, No, No, Pl, SR @ 142.1-142.4' dolomite; gray @ 142.1-142.4'		
							144		437				
							145		436				
HQ	29	2.5	0.4	0.0	16	0	146		435				
							147		434		limestone band; dark gray; micritic; band; fresh; strong; hard; 15% vuggy @ 147.0-147.2'		
							148		433		dolomite band; gray @ 147.8-148.0'		
							149		432		dolomite band; gray @ 148.5-148.7' 90°, J, T, No, No, Pl, SR @ 148.5-148.7'		
							150						

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Water level @ 21.6' prior to drilling on 08/22/07.



**BLACK & VEATCH**

**BORING LOG**

BORING NO. RB-C10

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	31	2.5	0.0	0.0	0	0	150		431				
							151		430				
			151.5				152		429		limestone; dark gray @ 152.0-152.3'		
HQ	32	2.5	1.1	0.0	44	0	153		428		limestone; dark gray @ 152.9-153.2'		
			154.0				154		427		dolomite; gray @ 154.4-154.7'		
HQ	33	2.5	1.7	1.4	68	56	155		426		155.1	<u>BRECCIA</u> ; dolomite clasts in a poorly indurated to indurated claystone matrix; light brownish gray; fresh; w/clasts of dolomite; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
			156.5				156		425				
							157		424				
HQ	34	2.5	1.2	0.35	48	14	158		423		dolomite; gray @ 158.0-158.2'		
			159.0				159		422				
HQ	35	2.5	0.5	0.35	20	14	160		421			Core box #9 @ 159.0'.	
							161		420				
			161.5				162		419				
HQ	36	2.5	1.3	0.0	52	0	163		418		0° B,T,No,No,PI,SR @ 162.4', 162.6', 163.3', 163.6' dolomite; gray @ 162.4-162.8' 90° J,T,No,No,PI,SR @ 162.6-162.8', 163.3-163.8'		
							163.3				<u>DOLOMITE</u> ; gray; (Salina Group - Unit F)		
			164.0				164		417				
							165		417				

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB		CHECKED BY Dogbey/Bonnie TB	APPROVED BY E Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	37	2.5	0.1	0.0	4	0	165		416		dolomite band; gray @ 165.0-165.2		
							166		415				
			166.5				167		414				
HQ	38	2.5	0.15	0.0	6	0	168		413		dolomite band; gray @ 167.7-167.9'		
							169		412				
			169.0				170		411				
HQ	39	2.5	0.0	0.0	0	0	171		410				
							172		409				
			171.5				173		408				
HQ	40	2.5	0.0	0.0	0	0	174		407				
							175		406				
			174.0				176		405				
HQ	41	2.5	0.8	0.0	32	0	177		404		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F).		
							178		403				
			176.5				179		402				
HQ	42	2.5	1.9	1.1	76	44	179		402		0°,B,VN,No,No,PI,SR @ 177.1'		
							180		402				
			179.0										

Water level @ 22.3' prior to drilling on 08/23/07.

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dodgey/Bonnie TB	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	43	2.5	0.2	0.0	8	0	180		401		grayish brown; strong; hard; (Salina Group - Unit F).	
							181		400			
			181.5				182		399			
HQ	44	2.5	0.0	0.0	0	0	183		398			
							184		397			
			184.0				185		396			
HQ	45	2.5	0.0	0.0	0	0	186		395			
							187		394			
			186.5				188		393		limestone band; very dark gray; fresh; strong; hard @ 187.4-187.6'	
HQ	46	2.5	0.2	0.0	8	0	189		392			
							190		391			
			189.0				191		390		LIMESTONE; dark gray; fresh; strong; hard (Salina Group - Unit F)	
							192		389		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F).	
			191.5				193		388		dolomite; light gray/pale yellow; micritic; fresh; strong; hard @ 192.3-192.7' 40°, J, VN, No, No, PI, SR @ 192.4'	
HQ	48	2.5	1.5	0.0	60	0	194		387		LIMESTONE; dark gray; micritic; fresh; 10% vuggy (Salina Group - Unit F) 30°, J, VN, No, No, PI, SR @ 193.1-193.2', 193.3-193.4'	
							195		387		90°, J, VN, No, No, WA, R @ 194.7-196.4'	

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# BORING LOG

BORING NO. RB-C10

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TR</sup>	CHECKED BY Dobby/Bonnie <sup>TR</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	49	2.5	1.7	0.0	68	0	195		386		fractured @ 194.7-195.5'	
							196		385		80°, J, VN, No, No, PI, SR @ 195.5-195.7'	
			196.5				197		384		BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray & grayish brown; strong; hard; (Salina Group - Unit F). large clasts of limestone @ about 197.5'	
HQ	50	2.5	1.0	0.0	40	0	198		383			
			199.0				199		382			Core box #10 starts @ 199.0'.
							200		381			
HQ	51	5.0	2.45	1.4	49	28	201		380			
							202		379			
							203		378			
			204.0				204		377		BRECCIA; dolomite clasts in a poorly indurated to indurated limestone matrix; dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). clasts flushed out @ 203.8-204.0'	
							205		376			
							206		375			
HQ	52	5.0	2.7	0.9	54	18	207		374		limestone @ 206.7-207.1'	
							208		373		dolomite band; grayish brown @ 207.4-207.55'	
			209.0				209		372		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/limestone bands; (Salina Group - Unit F). shale partings - 0°, B, VN, PI, SR @ 208.15', 208.3', 208.5'	
							210		371		90°, J, VN, No, No, PI, SR @ 208.2-209.0'	
											0°, B, VN, No, No, PI, SR @ 208.7'	Rough drilling @ 209.0-212.0'.

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# BORING LOG

BORING NO. RB-C10

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	53	5.0	2.9	0.0	58	0	210		371			
							211		370		limestone band; brownish gray @ 211.0-211.2' 90° J, VN, No, No, PI, SR @ 211.2-211.75', 212.8-213.0' grades w/fossils @ 211.2' 0° B, VN, No, No, PI, SR @ 211.4', 212.1', 212.5', 212.8', 213.1' 65° J, VN, No, No, PI, SR @ 211.75-211.5' limestone; brownish gray/gray @ 212.5-212.8'	
							212		369			
							213		368			
							214		367		LIMESTONE; gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F)	
							215		366		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). fractured @ 214.5-215.0' 90° V, N, UK, FI, PI, SR @ 215.1-215.3' 10° J, VN, UK, FI, PI, SR @ 215.3' convoluted bedding; w/brecciation @ 215.5-215.7' 60° J, VN, No, No, PI, SR @ 215.7-216.1' grades gray @ 215.7' 0° B, VN, No, No, PI, SR @ 216.0', 216.1', 216.2', 216.3'	
HQ	54	5.0	2.9	0.95	58	19	216		365			
							217		364		LIMESTONE; very dark grayish brown; micritic; fresh; strong; hard (Salina Group - Unit F). fractured @ 216.5-217.5' 60° J, VN, No, No, PI, SR @ 217.8-218.2' 0° B, VN, UK, Sp, PI, SR @ 218.1'	
							218		363			
							219		362		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/fossils (Salina Group - Unit F). grades light brownish gray @ 218.3' 90° J, VN, No, No, PI, SR @ 218.4-218.6' shale parting - 0° B, VN, PI, SR @ 218.4', 218.6' grades dark grayish brown @ 218.6'	
							220		361			
							221		360		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).	
HQ	55	5.0	1.2	0.0	24	0	222		359		shale partings - 0° B, VN, PI, SR @ 221.7', 222.0', 222.2', 222.4'	
							223		358		breccia; limestone matrix; dark gray; micritic; fresh; strong; hard; w/clasts of dolomite; grayish brown; micritic; fresh; strong; hard @ 222.5-222.8' 40° J, VN, No, No, PI, SR @ 222.8-223.0'	
							224		357			
							225		357			

Water level @ 23.3' prior to drilling on 08/24/07.

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# BORING LOG

BORING NO. RB-C10

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TB</sup>		CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	56	2.5	0.3	0.0	12	0	225		356		limestone band; dark gray @ 225.0-225.1' dolomite band; gray @ 225.1-225.4' 30°, J, VN, No, No, PI, SR @ 225.2-225.3', 225.3-225.4'	
							226		355			
HQ	57	2.5	0.3	0.0	12	0	227		354		dolomite band; gray @ 227.0-227.1' limestone band; dark gray @ 227.1-227.2' dolomite band; gray @ 227.2-227.4' 10°, J, VN, No, No, PI, SR @ 227.2', 227.4' 90°, J, VN, No, No, PI, SR @ 227.25-227.35'	
							228		353			
							229		352			Core box #11 starts @ 229.0'
HQ	58	2.5	0.4	0.0	16	0	230		351		dolomite band; gray @ 230.0-230.4'	
							231		350			
							232		349			
HQ	59	2.5	0.7	0.0	28	0	233		348		DOLOMITE; gray; (Salina Group - Unit F) fractured @ 232.4-232.8' 0°, B, VN, CI, Sp, PI, SR @ 232.8'	
							234		347		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F).	
							235		346		grades claystone; gray; slightly weathered; very weak; soft; w/clasts of dolomite; gray @ 234.5	
HQ	60	2.5	1.1	0.0	44	0	236		345		LIMESTONE; dark gray; (Salina Group - Unit F). fractured @ 235.0-235.8' 0°, B, VN, No, No, PI, SR @ 235.0', 235.8', 236.0'	
							237		344		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 70°, J, VN, No, No, PI, SR @ 235.8-236.0'	
HQ	61	2.5	1.9	1.0	76	40	238		343		BRECCIA; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F). dolomite band; light grayish brown; 5% vuggy @ 237.1-237.2'	
							239		342		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, VN, No, No, PI, SR @ 237.3', 237.55', 237.7' shale partings @ 237.7', 237.75'	
							240		342		DOLOMITE; light brownish gray; micritic; fresh;	

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# BORING LOG

BORING NO. RB-C10

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie TB	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	62	5.0	4.5	2.0	90	40	240		341		strong; hard; w/fossils; (Salina Group - Unit E). shale partings - 0°, B, VN, PI, SR @ 237.8', 238.2', 238.9' fossils @ 237.75-237.7', 238.3-238.4', 238.75-238.9' 70°, J, VN, No, No, PI, R @ 239.4-239.7' 60°, J, VN, No, No, PI, SR @ 239.7-240.0' 80°, J, T, No, No, Ir, R @ 240.8-241.7' fossils @ 241.3-244.0' 55°, J, T, No, No, PI, SR @ 241.5-241.7' 20°, J, T, No, No, PI, SR @ 241.7-241.8' 90°, J, T, No, No, PI, SR @ 241.8-242.1' 10°, J, T, No, No, PI, SR @ 242.05-242.1' 0°, B, T, No, No, PI, SR @ 242.7', 243.3', 243.4', 243.5'		
HQ	63	5.0	4.8	3.7	96	74	244		337		shale partings - 0°, B, VN, PI, SR @ 244.2', 245.4', 246.35' fossils @ 244.4-244.8', 245.0-245.45', 246.2-246.4', 246.6-247.3' 10°, J, T, No, No, PI, SR @ 245.1' 90°, J, T, No, No, PI, SR @ 245.1-245.2' shale partings @ 245.45', 245.55', 245.65' 0°, B, T, No, No, PI, SR @ 245.6', 246.85' 80°, J, T, No, No, PI, SR @ 246.7-246.85'		
HQ	64	5.0	5.0	4.8	100	96	249		332		fossils @ 248.0-248.6' fossils @ 248.8-250.2'	Core box #12 starts @ 249.0'	
							250		331		0°, J, VN, No, No, PI, SR @ 250.6'		
							251		330		0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'		
							252		329		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							253		328		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							254		327		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							255		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6050.7'	GROUND ELEVATION (DATUM) E 4451.3'	TOTAL DEPTH 271.3 (feet)
SURFACE CONDITIONS Earth berm		COORDINATE SYSTEM Plant	DATE START 08/14/07	DATE FINISHED 08/25/07

SAMPLING		LOGGED BY Bonnie <sup>TP</sup>	CHECKED BY Dogbey/Bonnie <sup>TP</sup>	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	65	5.0	4.8	4.1	96	82	255		326		DOLomite; grayish brown; micritic; fresh; strong; hard; w/shale & gypsum partings; (Salina Group - Unit E). convoluted bedding @ 254.5-255.1' 20°, J, VN, CI, FI, PI, S @ 255.7-256.0'		
							256		325		DOLomite; gray to grayish brown; micritic; fresh; strong; hard; w/gypsum nodules & veins along w/shale partings; (Salina Group - Unit E). 0°, J, VN, No, No, PI, SR @ 257.4'		
							257		324		DOLomite; grayish brown; micritic; fresh; strong; hard; w/gypsum bands, nodules, & shale partings; (Salina Group - Unit E). 0°, B, VN, CI, FI, PI, SR @ 257.95', 260.05', 260.1' 0°, J, VN, No, No, PI, SR @ 259.2', 259.3'	Core box #13 starts @ 259.0'	
HQ	66	1.1	1.1	0.65	100	59	259		322		claystone band @ 259.95-260.5' 0°, J, VN, No, No, PI, S @ 260.7'		
							260		321		DOLomite; gray; micritic; fresh; strong; hard; w/shale parting; (Salina Group - Unit E). 0°, J, VN, No, No, PI, S @ 261.3', 262.1'		
HQ	67	3.9	3.9	3.7	100	95	262		319		DOLomite; light brownish gray; micritic; fresh; strong; hard; w/gypsum veins parting & shale parting; (Salina Group - Unit E). 20°, V, W, Gy, FI, PI, S @ 262.5-262.6', 262.8-262.9', 263.85-263.95' pale yellow @ 262.6-263.0' 0°, J, VN, No, No, PI, S @ 262.8', 263.45', 263.8' light gray @ 263.1-263.5' 0°, V, MW to W, Gy, FI, PI, S @ 264.0' 0°, J, VN, Gy, Sp, PI, SR @ 264.2', 264.8', 264.9'	Very Hard drilling @ 262'	
							261		320		DOLomite; brownish gray; micritic; fresh; strong; hard; w/gypsum veins & nodule, anhydrite veins, & shale partings; (Salina Group - Unit E). 0°, V, MW to W, Gy, FI, PI, S @ 265.4', 266.2-266.4', 266.5-266.6', 266.8-266.9' 0°, J, VN, Gy, Sp, PI, SR @ 265.8', 266.9' 0°, V, MW, anhydrite, FI, PI, S @ 266.4', 266.55' convoluted bedding w/gypsum nodules @ 267.1-267.4'		
							263		318		DOLomite; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0°, J, VN, Gy, Sp, PI, SR @ 267.5'		
							264		317		DOLomite; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).		
							265		316				
HQ	68	5.0	5.0	4.7	100	94	266		315				
							267		314				
							268		313				
							269		312				
							270						

5/22/2008 9:25 AM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C10

SHEET 19 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7'					GROUND ELEVATION (DATUM) E 4451.3' 581.1 ft (NAVD 88)					TOTAL DEPTH 271.3 (feet)				
SURFACE CONDITIONS Earth berm										COORDINATE SYSTEM Plant					DATE START 08/14/07					DATE FINISHED 08/25/07				
SAMPLING										LOGGED BY Bonnie <sup>TB</sup>					CHECKED BY Dogbey/Bonnie <sup>TB</sup>					APPROVED BY Meyer <i>EM</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS			
HQ	69	2.3	2.3	2.1	100	91	270		311		shale parting - 0°, B, VN, Sp, PI, S @ 270.55'													
							271		310		shale parting - 0°, B, VN, Sp, WA, S @ 270.7'													
							272		309												Bottom of Boring @ 271.3'. Water level @ 22.7' @ completion of drilling. Boring caved @ 139.2'. Boring backfilled from 271.3' w/ bentonite chips to 50' below ground surface on 09/11/07. Continued w/ bentonite chips to 10' below ground surface on 09/20/07. Continued w/ bentonite chips to 3' below ground surface, then gravel to surface on 09/21/07.			
							273		308															
							274		307															
							275		306															
							276		305															
							277		304															
							278		303															
							279		302															
							280		301															
							281		300															
							282		299															
							283		298															
							284		297															
							285																	



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C11  
SHEET 1 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>TB for TB</i> Grainger/Mass/Bonnie	CHECKED BY <i>TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		580			Gravelly <u>COBBLES</u> - About 60% angular; cubical to elongated; hard; cobble w/max size 10"; about 25% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular, hard sand; about 5% fines; gray; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1		579				
							2		578				
							3		577				
			3.5				4		576				
							5		575				
							6		574				
S	1					2.5	7		573				
							8		572				
							9		571				
			10.0				10		570			Below 3.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.	Discrete sample SC1 collected from S1.
							11		569				
							12		568				
S	2					3.5	13		567				
							14		566				
							13.0		567		<u>PEAT</u> (PT) - About 100% plant tissue; black; moist; fibrous.	Discrete sample SC2 collected from S2.	
							13.8		566		Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; dark greenish gray & brown, mottled; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).		
							15		565				



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C11  
SHEET 2 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>G. Per TB</i> Grainger/Mass/Bonnie	CHECKED BY <i>S. M. TB</i> Dobbey/Bonnie	APPROVED BY <i>S. M.</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			15.5				15		565			
TW	3					1.3	16		564		Lean <u>CLAY</u> (CL) - About 100% medium plasticity, low toughness, no dilatancy, high dry strength fines; dark grayish brown; stiff; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).	Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer.
							17		563			
							18		562			
SPT	4	2	5	8	13	1.5	19		561		Lean <u>CLAY</u> with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 20% fine to coarse, subrounded to angular, hard sand; trace fine, subrounded, flat, hard gravel; grayish brown; firm; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	Water level @ 15.0' prior to drilling on 08/24/07. PP = 2.5 TSF @ 17.5'. TV = 0.6 TSF @ 17.5'.
							20		560			
							21		559			
TW	5					1.7	22		558			
							23		557			
							24		556		Sandy Lean <u>CLAY</u> (CL) - About 65% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 25% fine to coarse, subrounded to angular, hard sand; about 10% fine to coarse, subangular, hard gravel, fragments fracture w/1 hammer blow; gray; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP = 4.5 TSF @ 22.5'. T = 0.71 TSF @ 22.5'.
SPT	6	8	25	37	62	1.3	25		555			
							26		554			
							27		553		Clayey <u>SAND</u> (SC) - About 60% fine to coarse, subangular to angular, hard sand; about 35% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 5% fines, subangular, hard gravel; gray; dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	Tricone refusal @ 27.0'. Below 27.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced
			27.0				28		552		<u>DOLOMITE</u> ; crystalline; gray; micritic; slightly weathered; strong; hard; highly fractured; (Bass Islands Group).	
S	8					3.5	29		551			
							30		550			

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# BORING LOG

### BORING NO. RB-C11

### SHEET 3 OF 10

CLIENT										PROJECT					PROJECT NO.						
Detroit Edison										Fermi 3 COL Application					147483						
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6051.8'					E 4534.6'					580.0 ft (NAVD 88)		135.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel Parking Area										Plant					08/23/07		08/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Mass/Bonnie TB					Dogbey/Bonnie TB					Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
											CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD		RQD	PERCENT RECOVERY	RQD		
							30		550		w/sampler. Sonic core stored in box labeled SC1. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 4.3' @ Start of coring										
HQ	1	4.0	3.8	1.1	95	28	31		549		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 90°J,VN,No,No,PI,SR @ 31.25-32.25'										
							32		548		0°B,VN,No,No,PI,SR @ 31.25', 31.45', 32.8', 33.38'										
							33		547		shale parting - 0°B,VN,Sp,PI,SR @ 32.25'										
							34		546		90°J,VN,No,No,PI,SR @ 33.65-34.5', 33.65-34.1'										
							35		545		shale parting - 0°B,VN,Sp,PI,SR @ 33.65', 34.1'										
							36		544		90°J,VN,No,No,PI,SR @ 34.5-35.0'										
							37		543		0°B,VN,No,No,PI,SR @ 34.7', 34.8', 35.0', 35.6'										
HQ	2	5.0	5.0	3.9	100	78	38		542		fractured @ 35.0-35.1'										
							39		541		anhydrite filled vug @ 35.1'										
							40		540		shale parting - 0°B,VN,Fi,PI,SR @ 35.95'										
							41		539		DOLOMITE; slightly mottled; light gray & dark gray; micritic; fresh; strong; hard; (Bass Islands Group).										
							42		538		SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Islands Group).										
							43		537		DOLOMITE; light gray and very dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group).										
							44		536		0°B,T,No,No,PI,SR @ 38.5'										
							45		535		70°J,T,Ci,Sp,PI,SR @ 38.5-38.7'										
											SHALE; very dark gray; very fine grained; fresh; weak; low hardness; (Bass Island Group).										
HQ	3	5.0	5.0	3.7	100	74					DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/shell fossil imprint; (Bass Islands Group).										
											shale parting - 0°B,VN,Sp,PI,SR @ 39.65'										
											0°B,VN,No,No,PI,SR @ 40.0'										
											shale parting - 0°B,VN,Sp,PI,SR @ 40.1'										
											DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossil voids up to 0.4"; (Bass Islands Group).										
											50°J,T,No,No,PI,SR @ 40.3-40.55'										
											40°J,T,No,No,PI,SR @ 40.6-40.8'										
											shale partings - 0°B,VN,Sp,PI,SR @ 41.2',41.3',41.8'										
											pitted @ 44.8-45.2'										
											Core box #2 starts @ 44.5'										

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>CPD for TB</i> Grainger/Mass/Bonnie <sup>TB</sup>	CHECKED BY <i>SM for TB</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	4	5.0	5.0	4.1	100	82	45		535		0°,B,VN,No,No,PI,SR @ 44.9', 45.1', 48.1', 48.5'	
							46		534		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). 20°,J,VN,No,No,PI,SR @ 46.5-46.7', 46.3-46.4'	
							47		533		no stylolites or banding @ 47.9-48.5'	
							48		532		grades dark grayish brown @ 48.75'	
							49		531		90°,J,T,No,No,PI,SR @ 48.75-48.9' (2 parallel joints)	
			49.5				50		530		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 90°,J,VN,No,No,Ir,R @ 50.4-51.2'	
							51		529		fractured @ 50.8-50.9'	
HQ	5	5.0	5.0	3.7	100	74	52		528		0°,B,VN,No,No,PI,SR @ 51.2' slightly mottled dolomite, gray & dark gray @ 51.35-51.4'	
							53		527		0°,J,VN,CI,Sp,PI,SR @ 51.35' grades very fine grained @ 51.5' pyrite (0.01") @ 51.5'	
							54		526		DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°,J,VN,CI,Sp,PI,SR @ 51.75'	
							55		525		0°,J,VN,No,No,PI,SR @ 52.4'	
			54.5				56		524		0°,J,T,CI,Fi,Ir,SR (slightly weathered) @ 54.5'	
							57		523		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). shale parting @ 55.5'	
HQ	6	5.0	4.8	3.4	96	68	58		522		DOLOMITE; brecciated, healed; grayish brown; fresh; strong; hard; (Bass Islands Group). shale parting @ 55.5'	
							59		521		90°,J,VN,No,No,PI,SR @ 55.6-57.1'	
							60		520		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°,B,VN,Sp,PI,SR @ 55.9',56.1',56.6',57.55' convoluted bedding @ 56.2-57.7' 60°,J,T,No,No,PI,SR @ 57.3-57.8' shale parting (0.25") @ 57.8-57.85'	Core box #3 starts @ 56.9'
			59.5								DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 10°,J,VN,No,No,PI,SR @ 58.2', 58.25' shale partings - 0°,B,VN,Sp,PI,SR @ 58.7', 59.3',60.0'	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Granger/Mass/Bonnie</i>	CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	7	5.0	5.0	2.6	100	52	60		520		DOLOMITE; greenish gray & dark greenish gray, banded; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, VN, No, No, PI, SR @ 60.5-61.1', 62.2-62.9' fractured @ 61.0-61.3' shale parting - 0°, B, VN, Fi, PI, SR @ 61.3' 10° bedding angle @ 61.5-62.2' shale parting - 10°, B, VN, Sp, PI, SR @ 62.1' 0°, B, T, No, No, PI, SR @ 62.4'	
							61		519			
							62		518			
							63		517		fractured @ 63.0-63.1'	
							64		516		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).  30°, J, T, No, No, PI, SR @ 64.3-64.5'	
			64.5				65		515		DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	
							66		514			
HQ	8	5.0	5.0	3.7	100	74	67		513		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	
							68		512		DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 60°, J, T, No, No, Ir, R @ 68.1-68.4' fractured @ 68.2-68.6' 90°, J, T, No, No, PI, SR @ 68.6-69.0' anhydrite filled vugs @ 69.1-69.5'	
							69		511			
			69.5				70		510			Core box #4 starts @ 69.5'.
							71		509			
HQ	9	5.0	4.8	4.2	96	84	72		508			No drilling fluid return @ 72.0'.
							73		507			
							74		506		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	
							75		505		75°, J, VN, No, No, PI, R @ 73.9-74.0' 60°, J, VN, No, No, PI, R @ 74.2-74.3' 90°, J, T, No, No, PI, SR @ 74.3-74.4', 74.6-74.9', 75.1-75.6'	



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY Granger/Mass/Bonnie	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	10	5.0	4.9	2.6	98	52	75		505	fractured @ 74.6-74.9'			
							76		504	DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 75.3', 75.4', 75.6' 30°,J,T,No,No,PI,SR @ 75.6-75.9'			
							77		503	shale partings - 0°,B,VN,Sp,PI,SR @ 76.9',77.35', 78.25'			
							78		502				
							79		501	shale parting @ 78.4' dolomite; mottled; light gray & dark gray @ 78.5-78.6'			
			79.5				80		500	SHALE; very dark gray; fresh to slightly weathered; strong to moderately strong; hard to low hardness; (Bass Islands Group).			
HQ	11	5.0	4.2	3.9	84	78	81		499	DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°,J,VN,No,No,Pa,SR @ 79.0-79.5' 0°,B,VN,No,No,PI,SR @ 80.0' 10°,J,VN,No,No,PI,R @ 80.3-80.4' 10°,J,VN,CI,Sp,WA,R @ 80.9' calcite filled fractures @ 81.3-81.5' brecciated, healed @ 81.6-81.8'			
							82		498				
							83		497	brecciated, healed @ 83.2-83.4'			
							84		496	shale parting - 0°,B,VN,Sp,PI,SR @ 84.0' 90°,J,T,No,No,PI,SR @ 84.1-84.4', 85.0-85.1'			
			84.5				85		495	0°,B,VN,No,No,PI,SR @ 85.2'			Core box #5 starts @ 84.5'
							86		494	40°,J,T,No,No,PI,SR @ 85.8-85.9' 20°,J,VN,CI,Sp,PI,SR @ 86.2-86.3'			
HQ	12	5.0	4.8	3.6	96	72	87		493	shale parting - 0°,B,VN,Fi,PI,SR @ 86.4'			
							88		492	DOLOMITE; brecciated, healed; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 30°,J,VN,No,No,PI,SR @ 86.8-86.9'			
							89		491				
			89.5				90		490	DOLOMITE; light grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 10°,J,VN,CI,Sp,PI,SR @ 88.8', 89.1' brecciated, healed @ 89.2-89.4'			



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

LOGGED BY <i>Boyer TB for</i> Grainger/Mass/Bonnie TB		CHECKED BY <i>Boyer TB</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	13	5.0	5.0	3.9	100	78	90		490		shale partings - 0°,B,VN,Sp,PI,SR @ 90.4',90.6',91.1'		
							91		489		50°,J,T,No,No,PI,SR @ 91.0'		
							92		488		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; laminated; w/stylolites; (Bass Islands Group). shale partings - 0°,B,VN,Sp,PI,SR @ 91.5',91.6',91.75',92.0',92.3'	91.3	
							93		487		shale partings - 0°,B,VN,Sp,PI,SR @ 92.85',93.3'		
							94		486		shale partings - 0°,B,VN,Sp,PI,SR @ 94.3',94.05'	94.6	
HQ	14	5.0	5.0	3.8	100	76	95		485		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). fractured @ 95.0-95.1'		
							96		484		shale partings - 0°,B,T,Sp,PI,SR @ 95.0',95.1',95.6',96.5',96.55',96.65',96.75',97.1'		
							97		483		grades grayish brown @ 96.2' 90°,J,T,No,No,PI,SR @ 96.5-96.65' 10°,J,T,CI,Sp,PI,SR @ 96.85'		
							98		482		shale partings - 0°,B,T,Sp,PI,SR @ 98.1',98.3',98.5'		
							99		481			Core box #6 starts @ 98.5'	
							100		480		shale partings - 0°,B,VN,Sp,PI,SR @ 99.8',102.1'		
							101		479		60°,J,VN,No,No,PI,SR @ 100.2-100.5'		
HQ	15	5.0	4.3	3.0	86	60	102		478		30°,J,VN,No,No,PI,SR @ 102.0-102.1'		
							103		477		60°,J,VN,CI,Sp,PI,SR @ 102.35-102.65'	102.4	
							104		476		DOLOMITE; light olive brown to grayish brown; micritic; fresh; strong; hard w/stylolites; (Bass Islands Group). 10°,J,VN,CI,Sp,PI,SR @ 102.8',103.4',103.5' 30°,J,VN,CI,Sp,PI,SR @ 102.9' 80°,J,VN,No,No,PI,SR @ 104.0-104.1'		
							105		475		fractured @ 104.5-104.6'		



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C11  
SHEET 8 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

LOGGED BY <i>TC for TB for Grainger/Mass/Bonnie</i>		CHECKED BY <i>TC for TB Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	16	5.0	4.9	4.3	98	86	105		475				
							106		474			30°, J, T, No, No, PI, R @ 106.2', 106.3'	
							107		473			60°, J, VN, No, No, PI, SR @ 107.5-107.8'	
							108		472			0°, B, VN, No, No, PI, SR (weathered) @ 108.15'	
							109		471				
							110		470			DOLOMITE; brown; micritic; fresh; strong; hard; slightly brecciated, healed; (Bass Islands Group). 30°, J, VN, No, No, PI, SR @ 109.3-109.4' 0°, B, VN, No, No, PI, SR @ 109.9', 110.7'	Core box #7 starts @ 109.5'
							111		469				
HQ	17	5.0	4.5	1.8	90	36	112		468			DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 10°, J, VN, No, No, PI, SR @ 111.3' shaley dolomite band; very dark gray; medium hard @ 111.4-111.6' 0°, B, VN, No, No, PI, SR @ 111.5', 111.7', 111.9', 112.0', 112.1', 112.3', 112.4', 112.7' brecciated @ 111.6-111.9'	
							113		467			90°, J, T, No, No, PI, SR @ 112.0-113.0' (two orthogonal joints)	
							114		466			fractured @ 112.7-113.0'	
							115		465			DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°, B, VN, No, No, PI, SR @ 112.9', 113.0', 113.5'	
							116		464			DOLOMITE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). shaley dolomite band, very dark gray, moderately hard @ 113.7-113.9' 90°, J, VN, Ca, Fi, PI, SR @ 114.0-114.5'	
							117		463			DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; w/anhydrite veins & interbedding; (Salina Group - Unit F). 90°, J, VN, No, No, PI, SR @ 115.0-115.6' 0°, B, VN, No, No, PI, SR @ 115.0', 115.2', 116.3', 117.7', 118.1'	
							118		462			anhydrite vein @ 115.6-115.8' anhydrite beds @ 116.1-116.6'	
							119		461			shale parting - 0°, B, VN, Sp, PI, SR @ 116.5' limestone @ 116.6-116.9' fractured dolomite @ 116.9-117.2' anhydrite vein @ 117.25'	
							120		460			gray @ 117.7-118.0'	Run 14 core loss @ 119.5-121.6'

5/8/2008 10:14 AM DTE - Fermi 3 Geotech



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C11

SHEET 9 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass/Bonnie</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							120		460		anhydrite vein @ 118.0-118.3' anhydrite vein @ 119.3'		
							121		459		dolomite & dolomitic shale bed; gray & brown; very fine grained; slightly weathered; strong; hard @ 121.6-122.0'		
							122		458		50°, J, Ca, Pa, Pl, SR @ 121.6'		
HQ	19	6.0	3.4	0.0	57	0	122.0		458		Silty SAND - About 70% fine sand; about 30% low plasticity, low toughness, slow to rapid dilatancy fines; greenish gray; soft; moist; no odor; strong reaction w/HCl; homogeneous; (Salina Group - Unit F).		
							122.7		457				
							123		457		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; w/anhydrite veins & interbedding; (Salina Group - Unit F).		
							124		456		80°, J, Cl, Pa, Pl, SR @ 123.0-123.6'		
							125		455		dolomite beds; gray; micritic; fresh; strong; hard @ 123.4-123.5', 124.3-124.6'		
							125.5		455		DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	Core box #8 starts @ 125.5'.	
							126		454		0°, B, J, Ca, Pa, Pl, SR @ 124.5'		
							127		453		limestone bed; pitted; argillaceous; very dark gray ; very fine grained; slightly weathered; strong; hard @ 124.6-125.0'		
HQ	20	5.0	2.9	0.0	58	0	127.5		453		DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F).		
							128		452		limestone; argillaceous; gray; micritic; fresh; strong; hard @ 126.5-126.8'		
							128.5		452		0°, B, VN, No, No, Pl, SR @ 126.8', 127.7', 128.8'		
							129		451		dolomite @ 126.8-127.1'		
							129.5		451		claystone; highly weathered @ 127.1-127.5'		
							127.5		451		DOLOMITE; (Salina Group - Unit F)		
							128.0		450		70°, J, T, No, No, Pl, SR @ 127.6-127.8'		
							130		450		CLAYSTONE; highly fractured; (Salina Group - Unit F)		
							128.6		450				
							131		449		DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F).	Sample 8A taken from HQ21 @ 131.0-131.9'.	
							131.5		449		dolomite band @ 128.6-128.8'		
							132		448		claystone band @ 128.8-129.0'		
							132.5		448		dolomite @ 129.0-129.3'		
							133		447		60°, J, T, No, No, Pl, SR @ 130.8-130.9'		
HQ	21	5.0	4.2	2.2	84	44	131.0		447		CLAYSTONE; (Salina Group - Unit F)		
							131.5		447		limestone band @ 131.9-132.0'		
							132.0		447				
							134		446		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							134.5		446		60°, J, VN, No, No, Pl, SR @ 132.1-133.3'		
							135		445		0°, B, VN, No, No, Pl, SR @ 132.1', 132.7', 132.8', 133.0', 133.4', 134.4'		
							135		445		slightly weathered @ 132.3-132.6'		



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C11  
SHEET 10 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6051.8'	GROUND ELEVATION (DATUM) E 4534.6'	TOTAL DEPTH 135.5 (feet)
SURFACE CONDITIONS Gravel Parking Area		COORDINATE SYSTEM Plant	DATE START 08/23/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass/Bonnie</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							135		445		limestone band @ 132.7-132.8' fractured @ 133.6-134.0'	Bottom of boring @ 135.5'. Water level not recorded @ completion of drilling. Backfilled w/ bentonite chips to 41.3' bgs on 09/07/07. Continued w/ bentonite chips to 5' bgs, then gravel to surface on 09/12/07.	
							136		444		90° J, T, No, No, PI, SR @ 133.6-134.0'		
											0° J, VN, CI, Pa, PI, SR @ 133.6'		
											0° J, VN, CI, Sp, PI, SR @ 133.7', 133.8', 133.85', 133.9', 134.0'		
											DOLOMITE; gray; (Salina Group - Unit F)		
											90° J, T, No, No, PI, SR @ 135.0-135.3'		
							137		443				
							138		442				
							139		441				
							140		440				
							141		439				
							142		438				
							143		437				
							144		436				
							145		435				
							146		434				
							147		433				
							148		432				
							149		431				
							150		430				





# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 1 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Grainger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		581		ASPHALT	Boring advanced w/vacuum excavation.	
							1		580			COBBLES with Gravel - About 60% angular, cubical to flat & elongated, hard cobbles w/max. size 12"; about 20% fine to coarse, angular to elongated, hard gravel; about 15% fine to coarse, angular, hard sand; about 5% fines; (Fill).	
							2		579				
							3		578				
			4.0				4		577				
							5		576				
							6		575				
S	1					2.0	7		574				
							8		573				
							9		572				
			10.0				10		571				
							11		570				
							12		569				
S	2					3.0	13		568				
							14		567				
							13.5		567	PEAT (PT) - About 100% plant tissue	Discrete sample SC-2 collected @ 13.9-14.2.		
							13.8		567	Fat CLAY - About 100% high plasticity, low toughness, no dilatancy, high dry strength fines; gray & yellowish brown, mottled; soft; moist; no reaction w/			



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 2 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							15		566		HCl; homogeneous; (Lacustrine Deposit).	
TW	3	15.5				2.0	16		565		Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy, high dry strength fines; about 5% fine to coarse, angular, hard sand; dark yellowish brown & gray, mottled; firm; moist; strong reaction w/HCl; (Lacustrine Deposit).	Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/ NWJ rods & 4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer. PP = 2.6 TSF @ 17.5'. TV = 0.54 TSF @ 17.5'.
SPT	4	3	4	9	13	1.5	17		564		fissile; laminated; w/trace wood fragments @ 18.5-20.0'	
							18		563			
							19		562			
							20		561			
TW	5					1.0	21		560		Clayey SAND (SC) - About 80% fine sand; about 20% medium plasticity, medium toughness, slow dilatancy, medium dry strength fines; brown; medium dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till).	TW-5: tube bent.
							22		559			
							23		558			
SPT	6	11	21	50/5"	50+	1.2	24		557		Sandy Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 40% fine to coarse, subangular to angular, hard sand; dark grayish brown; very hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).	PP = 3.2 TSF @ 23.0'. TV = 0.32 TSF @ 23.0'.
							25		556			
							26		555			
SPT	7	50/4"	-	-	50+	0.3	27		554		Poorly graded SAND with Clay (SP-SC) - About 90% fine to coarse, angular, hard sand; about 10% medium plasticity, low toughness, slow dilatancy, medium dry strength fines; light olive brown; very dense; wet; strong reaction w/HCl; homogeneous; (Glacial Till). highly fractured dolomite @ 26.8'	Tricone refusal @ 27.0'. Below 27.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced
							28		553			
S	8					3.0	29		552		DOLOMITE; gray; micritic (crystalline); slightly weathered; very strong; hard; (Bass Islands Group).	
							30		551			

4/28/2008 12:50 PM DTE - Fermi 3 Geotech



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								30		551			w/sampler. Sonic core S-8 stored in box. Set nominal 6" temporary steel casing to 30.5'. Below 30.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 16.5' prior to drilling on 08/26/07. Core box #1 starts @ 30.5'. Core loss @ 30.5-31.7'. Drill chatter @ 32.0', 32.2', 33.5', 34.0'.
			30.5					31		550			
								32		549		highly fractured @ 31.7-32.3'	
HQ	1	4.5	3.3	0.8	73	18		33		548		DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh; strong; hard; w/shale partings; (Bass Islands Group). 20°, J, No, No, PI, SR @ 32.4-32.5', 32.6-32.7' 90°, J, Ca, Pa, PI, SR @ 32.7-33.0' 80°, J, No, No, Ir, R @ 32.9-33.3' highly fractured @ 34.0-34.7', 34.9-35.0'	
								34		547		90°, J, No, No, PI, SR @ 34.7-34.9'	
			35.0					35		546		DOLOMITE; argillaceous; & SHALE; dolomitic; white & light gray, mottled; very fine grained (crystalline); fresh; very strong; hard; (Bass Islands Group). 0°, B, No, No, PI, SR @ 35.2' 0°, B, No, No, St, SR @ 35.5'	
HQ	2	5.0	5.0	3.2	100	64		36		545		DOLOMITE; argillaceous; dark grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; very strong; hard; w/widely spaced stylolites; pits 0.04-0.08" diameter; trace fossils (mollusks); (Bass Islands Group). highly fractured @ 35.8-35.9' shale parting - 0°, B, PI, SR @ 36.4' 0°, B, UK, Fi, PI, SR @ 36.7', 37.9', 38.1', 38.6', 38.7', 39.5' 60°, J, No, No, PI, SR @ 36.7-36.9' 0°, B, No, No, PI, SR @ 37.2'	
								37		544			
								38		543			
								39		542			
			40.0					40		541		0.3" diameter vugs @ 40.5-40.7' 0°, B, UK, Fi, PI, SR @ 40.5'	
								41		540			
HQ	3	5.0	5.0	3.0	100	60		42		539		DOLOMITE; argillaceous; light gray & light olive gray, banded; very fine grained; fresh; very strong; hard; w/ stylolites & shale partings; (Bass Islands Group). highly fractured zone @ 41.2-41.5' shale parting - 10°, B, PI, SR @ 41.9' 90°, J, Ca, Pa, PI, SR @ 41.9-42.0'	Drill chatter @ 42.0'.
								43		538		0°, B, UK, Fi, PI, SR @ 43.2' highly fractured @ 43.5-43.7'	
								44		537		0°, B, anhydrite, Fi, PI, SR @ 44.0' 40°, J, anhydrite, Fi, PI, SR @ 44.0-44.1' 0°, B, No, No, St, SR @ 44.3' 90°, J, No, No, PI, SR @ 44.6-44.8' (2)	
								45					



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 4 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	4	5.0	5.0	2.9	100	58	45	536			DOLOMITE; argillaceous; light brownish gray; very fine grained; fresh; very strong; very hard; (Bass Islands Group). 30°, J, Ca, Pa, PI, SR @ 45.3-45.5'	Core box #2 starts @ 45.0'	
							46	535			DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; very strong; hard; oolites 0.02-0.04"; (Bass Islands Group). shale partings - 0°, B, PI, SR @ 45.6', 45.7' very closely spaced stylolites @ 45.6-45.9'		
							47	534			DOLOMITE; argillaceous; dark grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°, B, No, No, PI, SR @ 47.5', 47.6', 47.8' 70°, J, T, PI @ 47.6-47.8' highly fractured @ 47.8-48.0'		
							48	533					
							49	532					
							50	531			DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; very strong; hard; oolites 0.02-0.04"; (Bass Islands Group). shale parting - 0°, B, St, SR @ 48.5' 70°, J, No, No, PI, SR @ 49.1-49.7', 49.5-50.0'		
							51	530					
							52	529			argillaceous dolomite @ 51.9-52.0' 0°, B, No, No, PI, SR @ 52.0'		
							53	528			DOLOMITE; light gray, light brownish gray, & dark grayish brown; laminated; micritic to very fine grained; fresh; strong; hard; w/shale partings and stylolites; (Bass Islands Group). 0°, B, No, No, PI, SR @ 52.7', 53.5'		
							54	527			claystone parting; black; micritic; fresh; strong; hard @ 54.4'		
							55	526			DOLOMITE; argillaceous; light brownish gray, grayish brown, & gray, banded; micritic to very fine grained; fresh to slightly weathered; strong; hard; w/shale partings; (Bass Islands Group). 80°, J, No, No, PI, SR @ 54.7-54.9' 10°, J, No, No, PI, SR @ 55.6' 90°, J, No, No, PI, SR @ 55.8-56.3' 80°, J, No, No, PI, SR @ 56.1-56.3' 30°, J, Cl, Fi, PI, SR @ 56.5-56.6' highly fractured @ 57.0-57.1', 58.0-58.2' 90°, J, No, No, PI, SR @ 57.1-57.5' (2)	No drilling fluid return @ 55.0'. Drill chatter @ 55.5'.	
							56	525					
							57	524					
							58	523			grades w/stylolites @ 58.1'		
							59	522			shale parting - 0°, B, PI, SR @ 58.9'		
							60	521			DOLOMITE; light brownish gray; pitted; very fine grained (crystalline); slightly weathered; strong; hard;	Core box #3 starts @ 59.2'.	



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 5 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

LOGGED BY <i>Grainder/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>		APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	7	5.0	4.7	2.2	94	44	60		521		w/closely spaced stylolites; pits 0.04-0.12" diameter; (Bass Islands Group). 0° B, No, No, Pl, SR @ 59.2', 59.4' (2), 59.5', 59.7' 50° J, Ca, Pa, Pl, SR @ 59.5-59.6' highly fractured @ 59.8-60.0' shale parting - 0° B, Pl, SR @ 60.1' 90° J, No, No, Pl, SR @ 60.3-60.6' shale partings @ 60.8-60.9' 90° J, No, No, Pl, SR @ 61.5-61.9' 0° B, No, No, Pl, SR @ 61.5, 61.6', 61.8', 62.0', 62.2', 62.3' highly fractured @ 62.2-62.3' 40° J, Ca, Pa, Pl, SR @ 62.8-63.0' 30° J, No, No, Pl, SR @ 63.4-63.5' 100° J, Ca, Fi, Pl, SR @ 63.4-63.6' 30° J, Ca, Pa, Pl, SR @ 63.7-63.8'		
HQ	8	5.0	5.0	4.4	100	88	65.0		516		grades grayish brown @ 65.5' 0° J, No, No, Pl, R @ 66.0' 60° J, T, Ca, Fi, Pl @ 66.6-67.1' 60° J, Cl, Pa, Pl, SR @ 66.9-67.3' 0° B, UK, Fi, Pl, SR @ 68.1' shale partings & very closely spaced stylolites @ 68.8- 69.5' 90° J, No, No, WA, SR @ 69.5-70.0', 69.6-70.3' 0° B, UK, Fi, Pl, SR @ 69.8'		
HQ	9	5.0	5.0	2.1	100	42	70.0		511		90° J, No, No, WA, SR @ 71.3-73.6' 0° B, UK, Fi, Pl, SR @ 71.4', 71.5'	Drill chatter @ 70.0'. Water level @ 20.6' prior to drilling on 08/27/07.	
									509		<b>DOLOMITE</b> ; light brownish gray; micritic; slightly weathered; strong; hard; w/widely spaced stylolites; (Bass Islands Group). 0° B, UK, Fi, Pl, SR @ 71.9' 90° J, T, Pl @ 72.7-72.9'	Core box #4 starts @ 72.4'.	
									507		fat clay band - about 100% high plasticity, medium toughness, no dilatancy fines; firm; moist; hydrocarbon odor; no reaction w/HCl; homogeneous @ 73.8-73.9'		

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5' E 4606.5'		GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)	
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant		DATE START 08/24/07	
				DATE FINISHED 08/28/07	

SAMPLING			LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>		APPROVED BY <i>Meyer</i>	
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	10	5.0	5.0	1.6	100	32	75		506		highly fractured @ 73.9-74.7' DOLOMITE; argillaceous; light brownish gray; micritic; fresh; very strong; hard; (Bass Islands Group). brecciated (healed) @ 75.0'-75.4'	
							76		505		SHALE; very dark gray; very fine grained; moderately weathered to completely weathered; moderately strong to very weak; moderately hard to friable; properties comparable to low plasticity, low toughness, slow to rapid dilatancy soil fines; moist; slight hydrocarbon odor; no reaction w/HCl; homogeneous; (Bass Islands Group).	
							77		504			
							78		503			
							79		502		DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; (Bass Islands Group). pitted @ 77.5-78.3'	
							80		501		highly fractured @ 78.3-78.6' w/very closely spaced stylolites @ 79.0-79.2' 90° J,Ca,Pa,PI,SR @ 79.3-80.0', 79.5-80.0' brecciated (healed) w/shale partings @ 79.4-79.5' highly fractured @ 80.2-80.3', 82.2-82.3', 82.5-82.6'	
HQ	11	5.0	4.9	3.3	98	66	81		500		0° B,No,No,PI,SR @ 81.3' 30° J,UK,Pa,PI,S @ 81.3-81.4' grayish brown & light brownish gray, banded @ 81.6-82.1' 90° J,Ca,Fi,PI,SR @ 81.9-82.7' 90° J,Ca,Pa,WA,SR @ 81.9-82.1' shale parting @ 81.9' 90° J,T,Ca,Fi,PI @ 82.6-83.9'	
							82		499			
							83		498			
							84		497			
							85		496		20° J,CI/Ca,Fi,PI,SR @ 84.7-84.8'	
							86		495		DOLOMITE; light olive gray & gray, banded; micritic; fresh; very strong; hard; w/thin shale partings; trace stylolites; (Bass Islands Group). shale partings - 0° B,PI,SR @ 85.0', 85.1', 85.3', 86.2'	
							87		494		10° J,CI,Pa,PI,SR @ 86.4' brecciated (healed) w/lenses & convoluted bands of shale @ 86.5-86.8'	Core box #5 starts @ 86.4'
HQ	12	5.0	5.0	2.6	100	52	88		493		DOLOMITE; light brownish gray, light gray, & gray, banded; laminated; very fine grained (crystalline); fresh; very strong; hard; w/trace stylolites; (Bass Islands Group). shale parting - 0° B,PI,SR @ 88.3'	
							89		492		0° B,UK,Fi,PI,SR @ 88.9', 89.1' 80° J,No,No,PI,SR @ 89.3-90.0'	
							90		491			



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 7 OF 13

CLIENT Detroit Edison	PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6043.5' E 4606.5'	GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)
SURFACE CONDITIONS Paved parking lot	COORDINATE SYSTEM Plant	DATE START 08/24/07
		DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass</i>		CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	13	5.0	5.0	2.9	100	58	90	491		highly fractured @ 90.5-91.1'		
							91	490		DOLOMITE; argillaceous; dark gray; micritic; fresh; very strong; hard; w/shale partings; trace stylolites; (Bass Islands Group). 80° J,Ca,Pa,PI,SR @ 90.9-91.3' shale partings - 0° B,PI,SR @ 91.5' (2), 91.6', 92.3', 92.5', 93.5' many wavy shale partings @ 91.6-91.9' claystone band; black; fresh; strong; hard @ 92.2-92.3' 30° J,No,No,PI,SR @ 92.5-92.6'		
							92	489		80° J,No,No,PI,SR @ 94.5-94.8'		
							93	488				
							94	487				
HQ	14	5.0	5.0	2.8	100	56	95	486		DOLOMITE; argillaceous; gray; very fine grained (crystalline); fresh; strong, hard; w/widely spaced stylolites; (Bass Islands Group). 50° J,No,No,PI,SR @ 95.0-95.3' 90° J,No,No,PI,SR @ 95.1-95.4', 95.5-95.8' silt band - about 100% low plasticity, low toughness, rapid dilatancy fines; light gray; soft; moist; no hydrocarbon odor; strong reaction w/HCl; homogeneous @ 95.8-96.0' 60° J,No,No,PI,SR @ 96.3-96.9' 0° J,UK,Fi,PI,SR @ 97.0', 97.6', 97.7' very closely spaced stylolites @ 97.6-97.7'		
							96	485				
							97	484				
							98	483		brecciated (healed) @ 98.4-98.5', 99.0-99.1' 40° J,No,No,PI,S @ 98.4-98.5'		
							99	482				
							100	481		70° J,Ca/Cl,Pa,PI,SR @ 99.7-100.3' shale partings - 0° B,WA,SR @ 99.9'	Core box #6 starts @ 100.0'.	
							101	480		60° J,Ca,Pa,PI,SR @ 100.5' 90° J,No,No,PI,SR @ 100.5-100.7'		
							102	479		DOLOMITE; light brownish gray & grayish brown, mottled; pitted; very fine grained (crystalline); fresh; very strong; hard; (Bass Islands Group). 30° J,W,Cl,Fi,PI,SR @ 100.7-100.8' very closely spaced stylolites @ 101.4-102.4' 30° J,UK, Fi,PI,SR @ 102.2-102.3', 102.5-102.6' 0° J,UK,Fi,PI,SR @ 102.7'		
HQ	15	5.0	5.0	4.3	100	86	103	478				
							104	477		0° J,No,No,PI,SR @ 103.7' grades brecciated (healed) w/convoluted shale partings @ 103.7'		
							105	477				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	16	5.0	4.7	1.2	94	24	105		476		40°, J, No, No, PI, SR @ 105.2-105.3'		
							106		475		DOLOMITE; argillaceous; dark grayish brown; very fine grained (crystalline); fresh; very strong; very hard; (Bass Islands Group).		
							107		474		DOLOMITE & DOLOMITE; argillaceous; brecciated (healed); dark olive gray & dark grayish brown, mottled; very fine grained (crystalline); fresh to slightly weathered; very strong; hard; (Bass Islands Group). 70°, J, No, No, PI, SR @ 106.6-106.9' 110°, J, No, No, PI, SR @ 106.6-107.0' 90°, J, anhydrite, Pa, WA, SR @ 107.0-108.5' highly fractured w/clay; about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; strong reaction w/HCl; homogeneous @ 108.7-109.0' 90°, J, Ca, Pa, PI, SR @ 108.9-109.2'		
HQ	17	5.0	3.7	1.8	74	36	110		471		DOLOMITE; argillaceous; greenish gray; micritic; fresh; very strong; hard; (Bass Islands Group). highly fractured w/clay; about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; strong reaction w/HCl; homogeneous @ 109.2-109.5', 109.7-110.0' 90°, J, Ca, Pa, PI, SR @ 109.6-109.8' grades dark greenish gray @ 110.3' highly fractured @ 110.5-110.6' 0°, B, Cl, Pa, PI, SR @ 110.8'		
							111		470				
							112		469				
							113		468				
							114		467			Core loss @ 113.9-115.9'	
							115		466			Core box #7 starts @ 115.0'	
HQ	18	5.0	4.1	0.9	82	18	115		466		shale partings - 0°, B, PI, SR @ 111.7', 111.8', 112.4', 112.5', 113.0' 75°, J, T, PI @ 111.9-112.2' highly fractured @ 113.3-114.0' 60°, J, Cl, Fi, PI, SR @ 113.5-113.7' (3) highly fractured w/clay @ 115.9-116.5' 70°, J, N, PI @ 116.5-116.7'		
							116		465				
							117		464				
							118		463				
							119		462				
							120		462			LIMESTONE; argillaceous; dark gray; pitted/vuggy; very fine to fine grained (crystalline); slightly weathered; very strong; hard; pits round; vugs elongate & 0.4-2.0"; (Salina Group - Unit F).	





# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 9 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Grander/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
HQ	19	5.0	4.9	0.9	98	18	120		461		90° J, Ca, Fi, PI, R @ 119.0-121.0' 20° J, Ca, Fi, PI, SR @ 119.6'	
							121		460		DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; hard; hydrocarbon odor; (Salina Group - Unit F). highly fractured @ 120.3-120.5'	
							122		459		CLAYSTONE; dolomitic; & LIMESTONE; interbedded; greenish gray to gray; micritic to very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard to hard; thin to thick bedded; (Salina Group - Unit F). highly fractured @ 122.6-123.0'	
							123		458		70° J, CI, FI, PI, SR @ 122.6-123.0'	
							124		457		0° B, CI, FI, PI, SR @ 124.0', 125.3'	
							125		456		Core loss @ 124.9-125.0'	
HQ	20	5.0	4.9	0.4	98	8	125		456		DOLOMITE; argillaceous, dark gray; very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard to hard; w/ limestone partings & bands; (Salina Group - Unit F). 40° J, No, No, PI, SR @ 126.2-126.4'	
							126		455		0° B, CI, FI, PI, SR @ 127.0', 127.8', 127.9', 128.3'	
							127		454		highly fractured @ 128.0-129.0'	
							128		453		90° J, CI, FI, PI, SR @ 128.1-128.5', 128.7-128.9'	
							129		452		DOLOMITE; argillaceous; & SHALE; dolomitic; gray; micritic to very fine grained; slightly to moderately weathered; moderately strong to strong; moderately hard; (Salina Group - Unit F). 20° J, No, No, PI, SR @ 129.2-129.3'	Core box #8 starts @ 130.0'
							130		451		Core box #8 starts @ 130.0'	
							131		450		Core box #8 starts @ 130.0'	
							132		449		Core box #8 starts @ 130.0'	
HQ	21	5.0	2.8	0.9	56	18	130		451		highly fractured @ 132.6-133.1'	
							131		450		lean clay band - about 100% medium plasticity, medium toughness, slow dilatancy fines; gray; soft; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 132.7-132.9'	
							132		449		limestone bands; dark greenish gray; pitted; micritic; slightly weathered; strong; hard @ 132.9-133.2'	
							133		448		133.4-133.6'	
							134		447		70° J, Ca, Fi, PI, SR @ 133.1-133.3'	
							135		447		70° J, Ca, Fi, PI, SR @ 133.1-133.3'	



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	22	5.0	3.3	0.4	66	8	135.0		446		dolomite bands; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes) @ 133.2-133.4', 133.6-133.8'		
									445		grades gray & greenish gray, banded; fresh; strong; hard @ 133.8'		
									444		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, Ca, Fi, Pi, SR @ 134.1-134.5'		
									443		grades bluish gray @ 134.6'		
									442		30°, J, No, No, Pi, SR @ 134.6-134.8', 134.8-135.0'		
									441		highly fractured @ 134.7-135.0'		
									440		CLAYSTONE; dolomitic; greenish gray; moderately to highly weathered; weak to extremely weak; low hardness to friable; properties comparable to high plasticity, low toughness, no dilatancy to rapid dilatancy; moist soil fines; w/moderately wide spaced; argillaceous; bluish gray; micritic; fresh; strong; hard; dolomite beds; (Salina Group - Unit F).		
									439		highly fractured @ 136.3-136.6', 137.5-137.9'	Core loss @ 140.0-141.0'	
									438		0°, B, Cl, Fi, Pi, SR @ 138.4'		
HQ	23	5.0	4.0	1.0	80	20	140.0		437		90°, J, Cl, Pa, Pi, SR @ 143.0-143.2'		
									436		DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).	Discrete sample 8-A collected @ 144.0-144.8'	
									435		silty sand band - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.1-145.3'	Core loss @ 145.0-145.1'	
									434		CLAYSTONE; dolomitic; greenish gray; pitted; slightly to moderately weathered; moderately strong; moderately hard; w/close to moderately wide spaced; argillaceous; greenish gray; pitted; micritic; fresh; strong; hard; dolomite bands & thin beds; (Salina Group - Unit F).		
HQ	24	5.0	4.9	0.5	98	10	145.0		433		silty sand bands - about 80% fine sand; about 20% low plasticity, low toughness, rapid dilatancy fines; greenish gray; soft; wet; strong reaction w/HCl; no hydrocarbon odor; homogeneous @ 145.5-145.6', 147.3-147.4'		
									432		40°, J, No, No, Pi, SR @ 146.9-147.0'		
									431		120°, J, Cl, Fi, Pi, SR @ 146.9-147.4'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 11 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY <i>Granger/Mass</i>	CHECKED BY <i>Dogbey/Mass</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
HQ	25	5.0	4.7	1.4	94	28	150.0		431		gray; highly weathered; weak; low hardness @ 147.4-147.6' highly fractured @ 147.7-148.4, 149.4-149.7' 60°, J, Cl, Fi, Pi, SR @ 149.0-149.2'	Core box #9 starts @ 150.0'	
									430				
									429		highly weathered; weak to extremely weak; low hardness to friable @ 151.4-151.6' 0°, J, Cl, Fi, Pi, SR @ 151.6'	Discrete sample 9-A collected @ 152.4-153.2'	
									428				
									427				
									426		highly fractured @ 153.9-154.3' 60°, J, Cl, Fi, Pi, SR @ 153.9-154.3'		
									425		SHALE; dolomitic; dark gray; laminated; very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F). highly fractured @ 155.7-156.3'	Core loss throughout @ 155.0-175.0'	
									424				
HQ	26	5.0	3.6	0.0	72	0	155.0		424		DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). claystone bed; dolomitic @ 157.2-157.5'		
									423		0°, B, Cl, Pa, Pi, SR @ 157.9', 158.0', 158.1', 158.3', 158.7', 158.8' 80°, J, Cl, Pa, Pi, SR @ 158.3-158.6' (2)		
									422				
									421				
									420				
									419		highly fractured @ 162.0-162.5'		
HQ	27	5.0	1.0	0.0	20	0	160.0		418		greenish gray & dark greenish gray, banded @ 162.5-163.0'	Soft drilling @ 163.0-165.0'	
									417				
									416				
									415				
									414				
									413				
									412				
									411				
									410				
									409				
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									387				
									386				
									385				



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 12 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger/Mass</i> TB for		CHECKED BY <i>Dogbey/Mass</i> TB for	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							

HQ	28	5.0	2.2	0.8	44	16	165.0		165	416		Core loss @ 165.0-167.8'
									166	415		
									167	414		
									168	413	highly fractured @ 167.8-168.3'	
									169	412		
HQ	29	2.5	1.0	0.0	40	0	170.0		170	411		Core loss throughout @ 170.0-175.0'
									171	410		
									172	409		
									173	408		
HQ	30	2.5	1.3	0.0	52	0	172.5		174	407		
									173.4	408		
									174	407		
									175	406		
HQ	31	2.5	2.5	1.3	100	52	175.0		176	405		Core box #10 starts @ 175.0'
									177	404		Discrete sample 10-A collected @ 176.0-177.0'
									178	403		
									179	402		
									180	402		

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highly fractured @ 167.8-168.3'

**BRECCIA** - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; dark greenish gray; moderately to highly weathered; moderately strong to weak; moderately hard; w/ angular sand- & gravel-sized clasts of dolomite; argillaceous; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F).  
60° J, CI, FI, PI, SR @ 169.0-169.3'  
0° B, CI, FI, PI, SR @ 169.5'  
highly fractured @ 169.7-170.0'  
dolomite fragments; argillaceous; greenish gray; micritic to very fine grained (crystalline); slightly weathered; very strong; hard; highly fractured; angular to subangular, gravel-sized fragments @ 170.7-171.7'

**DOLOMITE**; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).  
90° J, CI, Pa, PI, SR @ 173.7-173.8'  
60° J, CI, Pa, PI, SR @ 173.8-173.9'  
40° J, CI, Pa, PI, SR @ 174.2-174.3'

**BRECCIA** - dolomite clasts in a poorly indurated claystone matrix: claystone matrix; dolomitic; dark greenish gray; moderately to highly weathered; moderately strong to weak; moderately hard; w/ angular sand- & gravel-sized clasts of dolomite; argillaceous; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F). grades greenish gray; completely weathered; very weak; friable; properties comparable to high plasticity, low toughness, rapid dilatancy soil fines @ 175.0' grades highly weathered; weak; low hardness to friable; properties comparable to high plasticity, low toughness, slow dilatancy soil fines @ 175.5'

**BRECCIA** - dolomite clasts in a indurated claystone matrix: claystone matrix; greenish gray; slightly to moderately weathered; moderately strong; moderately hard; w/ angular clasts of dolomite; some argillaceous;

Core loss @ 165.0-167.8'

Core loss throughout @ 170.0-175.0'

Core box #10 starts @ 175.0'

Discrete sample 10-A collected @ 176.0-177.0'

Bottom of boring @ 178.1'. Water level @ 20.4' @ completion of drilling. The extra 0.6' may be due to material wash



# BLACK & VEATCH

# BORING LOG

BORING NO. RB-C12

SHEET 13 OF 13

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6043.5'	GROUND ELEVATION (DATUM) E 4606.5'	TOTAL DEPTH 178.1 (feet)
SURFACE CONDITIONS Paved parking lot		COORDINATE SYSTEM Plant	DATE START 08/24/07	DATE FINISHED 08/28/07

LOGGED BY <i>Granger</i> JB for Granger/Mass		CHECKED BY <i>Dogbey</i> JB for Dogbey/Mass	APPROVED BY <i>Meyer</i> Meyer
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SAMPLING										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE	RUN NUMBER	RUN LENGTH							RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD
														180	401			very dark gray or light brownish gray; micritic; slightly to moderately weathered; moderately strong; moderately hard to hard; (Salina Group - Unit F). dolomite band; gray; micritic; fresh to slightly weathered; strong; hard; w/clay partings angled 30° @ 177.0-177.2'	out. Backfilled w/ bentonite chips to 41' on 09/06/07. Backfilled w/ bentonite chips to ground surface on 09/13/07.
														181	400				
														182	399				
														183	398				
														184	397				
														185	396				
														186	395				
														187	394				
														188	393				
														189	392				
														190	391				
														191	390				
														192	389				
														193	388				
														194	387				
														195					



# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1

SHEET 1 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>GD</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>DB</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								0				Well graded GRAVEL with Silt (GW-GM) - About 80% angular to subangular, hard gravel w/max. size 1 1/2"; about 10% fine to coarse, angular to subangular sand; about 10% fines; dark reddish gray; dry; weak reaction w/HCl; (Fill).	Boring advanced w/vacuum excavation.
								1					
								2					
								3					
								4					
								5				Poorly graded GRAVEL (GP) - About 90% angular, hard gravel w/max. size 3"; about 5% fine to coarse sand; about 5% fines; dark reddish gray; moist; weak reaction w/HCl; (Fill).	Below 5.0' continued w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.
								6					
								7					
								8					
								9					
								10					
SPT	1	23	22	30	52	1.0		10					Sample shoe split in half
								11					
								12					
								13					
								14					
SPT	2	2	3	3	6	2		14					
								15					
								15				Lean CLAY (CL) - About 100% LL=40, PL=18, no dilatancy, high dry strength fines; reddish brown & gray, mottled; firm; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).	
								15				Lean CLAY with Sand (CL) - About 76% LL=27, PL=	PP > 4.5 TSF @ 16.5'

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# BORING LOG

BORING NO. RW-C1

SHEET 2 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 580.7 ft (NAVD 88) 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>BCC/B</i> Grainger/Bonnie <sup>713</sup>	CHECKED BY <i>sm/B</i> Dogbey/Bonnie <sup>713</sup>	APPROVED BY <i>sm</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD						
TW	3						15		565		18, slow dilatancy, high dry strength fines; about 20% fine to coarse, rounded, hard sand; about 3% gravel; dark grayish brown; hard; moist; strong reaction w/ HCl; laminated; (Glacial Till).	
							16		564			
							17		563			
							18		562			
							19		561		grades LL=24, PL=13 laminated dark grayish brown & gray @ 19.5'	
SPT	4	8	14	15	29	1.2	20		560			
							21		559			
							22		558			
							23		557		Lean CLAY with Sand (CH) - About 75% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 15% fine to coarse, rounded to subangular, hard sand; dark gray; hard; moist; strong reaction w/HCl; homogeneous; w/trace cobbles; (Glacial Till).	Cobbles @ 23.0-24.0'
							24		556			
SPT	5	9	11	16	27	1.5	25		555			
							26		554			Scattered cobbles @ 26.0-27.5'.
							27		553			
			27.5				28		552		DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; hard; (Bass Islands Group).	Auger refusal @ 27.5'. Set nominal 4" temporary steel casing to 29.0'. Below 27.5' continued w/triple tube wire line core barrel
HQ	1	3.7	2.7	1.3	73	35	29		551			
							30					

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# BORING LOG

BORING NO. RW-C1

SHEET 3 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING			LOGGED BY <i>B. Grainger</i> Grainger/Bonnie TB	CHECKED BY <i>S. Dogbey</i> Dogbey/Bonnie TB	APPROVED BY <i>F. Meyer</i> Meyer
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER							
HQ	2	30				90°, J, T, No, No, WA, SR @ 30.5-31.7'	w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.5'.	
		31				shale partings @ 30.9-32.3'		
		32						
		33				DOLOMITE; olive brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group). 90°, J, T, No, No, WA, SR @ 32.7-33.1'		
HQ	2	34	5.0	4.9	3.5	98	70	0°, J, N, No, No, WA, SR @ 33.5'
		35						0°, J, N, No, No, WA, SR @ 34.7'
		36						
		37						60°, J, VN, No, No, PI, SR @ 37.1-37.5'
		38						black shale band @ 37.4'
		39						slightly vuggy @ 37.6-39.2'
HQ	3	40	5.0	5.0	4.8	100	96	black shale band @ 38.4'
		41						calcite vug @ 38.7'
		42						90°, J, T, No, No, WA, SR @ 39.5-41.2'
		43						
		44						90°, J, T, No, No, WA, SR @ 42.5-43.2'
HQ	4	45	5.0	4.8	4.1	96	82	0°, J, N, No, No, WA, SR @ 44.5'
		46						

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# BORING LOG

BORING NO. RW-C1

SHEET 4 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>Grainder/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	5	5.0	4.6	1.5	92	30	45					
			46.2				46				90°, J, T, No, No, WA @ 46.4-47.2'	
							47				60°, J, VN, No, No, St/lr, R @ 47.2-47.5', 47.5-47.9'	
							48				breccia @ 48.2-48.4'	
HQ	5	5.0	4.6	1.5	92	30	49				90°, J, T, No, No, WA @ 49.3-49.6'	
			51.2				51					
							52				60°, J, VN, No, No, St/lr, R @ 51.8-52.1'	
							53				30° transitions to 90°, J, VN, No, No, WA, R @ 52.0-52.5'	
HQ	6	5.0	4.7	3.3	94	66	54				DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; moderately hard; (Bass Islands Group).	
							55				DOLOMITE; crystalline; brown; micritic; fresh; strong; hard; pitted; (Bass Islands Group).	
							56				black shale band @ 54.55-54.6'	
			56.2				57					Core box #3 starts @ 56.2'.
							58				anhydrite filled vug @ 57.8'	
HQ	7	5.0	5.0	4.6	100	92	59				0°, J, VN, No, No, PI, R @ 58.0'	
							60				20°, J, VN, UK, Pa, PI, SR @ 58.7'	
											90°, J, T, No, No, WA @ 59.3-59.6'	

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# BORING LOG

BORING NO. RW-C1

SHEET 5 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Grainger/Bonnie TB</i>		CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	1-SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD							
								60				0°,J @ 60.1', 61.4'	
								61					
			61.2					62					
								63				0°,J @ 62.4'	
HQ	8	5.0	4.9	3.8	98	76		64				DOLOMITE; light yellowish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,J,lr @ 62.9', 64.4'	
								65					
								66				0°,J @ 65.4'	Water level @ 10.3' prior to drilling on 06/16/07.
			66.2					67					
								68				0°,J,N,Ci,Fi,St @ 67.05' 20°,J,VN,Ci,Fi,St,R @ 67.0-67.05'	
HQ	9	5.0	4.9	4.45	98	89		69				DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group).	
								70				60°,J,VN,No,No,WA,SR @ 69.0-69.3'	
								71					
			71.2					72				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,J,N,Ci,Fi,St @ 71.0' 0°,J,N,No,No,lr,R @ 71.4', 71.8', 71.5', 72.0', 72.5', 72.65', 72.75', 73.2', 73.45', 73.7', 73.85' breccia @ 72.1-72.8'	
								73				grades grayish brown; w/o stylolites @ 73.0'	
HQ	10	5.0	4.9	0.95	98	19		74				90°,J,N,No,No,St @ 73.5-74.3'	
								75				0°,J,N,No,No,lr,R @ 74.6', 74.7'	

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# BORING LOG

BORING NO. RW-C1

SHEET 6 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>B. Grainger</i> Grainger/Bonnie TB	CHECKED BY <i>P. Dogbey</i> Dogbey/Bonnie TB	APPROVED BY <i>F. Meyer</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								75				0°, J, N, No, No, Ir, R @ 75.2'	
								76				60°, J, VN, UK, Sp, Ir @ 76.0'	
			76.2					77				fractured @ 76.2-77.7'	
								78				0°, J, N, No, No, Ir, R @ 76.8'	
HQ	11	5.0	4.0	0.9	80	18		79				BRECCIA; healed; argillaceous; grayish brown; fresh; strong; hard; (Bass Islands Group).	
								80				90°, J, T, No, No, Ir, R @ 78.1-80.5';	
								81					
			81.2					82				45°, J, T, No, No, Ir, R @ 81.4'	
								83				30°, J, T, No, No, Ir, R @ 81.8'	
HQ	12	5.0	5.0	4.4	100	88		84				60°, J, T, No, No, Ir, R @ 82.2'	
								85					
								86					
			86.2					87					
								88					
HQ	13	5.0	5.0	5.0	100	100		89				0°, J, T, UK, Sp, Ir @ 88.5'	
								90				DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).	

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# BORING LOG

BORING NO. RW-C1

SHEET 7 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Boyer</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>Boyer</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							90					0°,J,VN,UK,Sp,PI,SR @ 90.0'		
							91					black shale parting - 0°,B,N,PI,SR @ 90.75'		
			91.2				92							
							93					0°,J,T,Cl,Sp,Ir,R @ 92.4', 93.7' 90°,J,T,No,No,PI,R @ 92.6-93.5', 95.5-96.0'		
HQ	14	5.0	5.0	1.8	100	36	94					0°,J,T,No,No,PI @ 93.3'		
							95					SHALE; black; (Bass Islands Group).		
							96					DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°,J,T,No,No,PI @ 94.4' 0°,J,T,No,No,PI @ 95.1', 95.7'	Core box #6 starts @ 95.0'	
			96.2				97					slightly fractured @ 95.9-96.1' 0°,J,T,No,No,PI @ 96.4' convoluted bedding @ 96.4-97.3' 60°,J,T,No,No,Ir @ 97.0'		
							98							
HQ	15	5.0	4.8	3.4	96	68	99					0°,J,T,No,No,PI @ 98.4', 98.6'		
							100					60°,J,T,No,No,Ir @ 99.2' 60°,J,T,No,No,Ir @ 99.6' 0°,J,T,No,No,St @ 99.8' pitted @ 100.0-100.2'		
							101					DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).		
			101.2				102							
							103					0°,J,T,No,No,St @ 102.4'		
							104					DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Bass Islands Group).		
HQ	16	5.0	5.0	3.4	100	68	105					0°,J,T,No,No,St @ 104.2' 60°,J,T,No,No,Ir @ 104.7-105.4'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1  
SHEET 8 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								105				60°, J, T, No, No, PI, R @ 105.5-105.7', 107.6-107.8'	
								106				0°, J, T, No, No, St @ 105.7'	
			106.2					107				0°, J, T, No, No, PI, R @ 107.1'	
								108				90°, J, T, No, No, WA, R @ 107.2-107.75'	
HQ	17	5.0	5.0	2.2	100	44		109				0°, J, T, No, No, PI, R @ 108.2', 108.3', 108.7'	
								110				0°, J, T, No, No, PI, R @ 109.0', 109.6'	Core box #7 starts @ 109.0'
								111				60°, J, T, No, No, PI, R @ 109.7-109.9'	
			111.2					112				DOLOMITE; gray; micritic; fresh; strong; hard; massive; (Bass Islands Group).	
								113				0°, J, T, No, No, PI, R @ 110.1'	
								114				60°, J, T, No, No, PI, R @ 110.2-110.4', 110.7-110.9'	
HQ	18	5.0	4.9	2.75	98	55		115				0°, J, T, No, No, PI, R @ 111.4', 112.1', 112.3'	
								116				90°, J, T, No, No, WA, R @ 111.5-112.2'	
								117				90°, J, T, No, No, WA, R @ 112.3-113.6'	
								118				0°, J, T, No, No, PI, R @ 112.9'	
								119				0°, J, T, No, No, PI, R @ 113.6'	
			116.2					120				0°, J, VN, UK, Sp, PI, R @ 114.6'	
								121				0°, J, T, No, No, PI, R @ 115.4'	
								122				grades banded w/shale partings @ 115.5'	
								123				90°, J, T, No, No, WA, R @ 116.2-116.6'	
								124				60°, J, T, No, No, PI, R @ 116.8-117.1'	
								125				0°, J, T, No, No, PI, R @ 117.0', 117.15', 117.4'	
								126				DOLOMITE; argillaceous; light yellowish brown; micritic; fresh; hard; (Bass Islands Group).	
								127				90°, J, T, No, No, WA, R @ 117.5-117.9'	
HQ	19	5.0	5.0	3.2	100	64		128				0°, J, T, No, No, PI, R @ 117.9', 118.2'	

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# BORING LOG

BORING NO. RW-C1  
SHEET 9 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING						LOGGED BY <i>Bonnie TB</i> Grainger/Bonnie		CHECKED BY <i>Bonnie TB</i> Dogbey/Bonnie		APPROVED BY <i>FM</i> Meyer	
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	20	5.0	5.0	3.0	100	60	120					
			121.2				121					
							122				60°, J, VN, No, No, PI, R @ 121.8-122.0'	Core box #8 starts @ 122.0'
							123				0°, J, N, No, No, WA, R @ 122.1', 122.9', 124.6'	
							124				calcite filled vug @ 122.1'	
							125				90°, J, N, Ca, Pa, PI, R @ 122.5-123.5'	
							126					
			126.2				126					
							127				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							128				90°, V, N, Ca, Fi, PI, R @ 126.0-126.1'	
							129				fractured @ 126.2-128.2'	
							130				DOLOMITE; argillaceous; dark greenish gray; micritic; fresh; strong; hard; shale partings; (Salina Group - Unit F).	
							131				90°, J, VN, No, No, PI, R @ 128.4-128.6', 129.3-129.5'	
							132				fractured @ 128.4-128.6'	
							133				70°, J, N, Ca, Pa, PI, R @ 128.8-129.0'	
							134				shale partings - 0°, J, N, WA, R @ 129.1', 129.3'	
							135					
			131.2				131				90°, J, VN, No, No, PI, R @ 130.6-130.8'	
							132				90°, V, MW, Ca, Fi, SR @ 130.8-130.5'	
							133				DOLOMITE; shaley; grayish brown; fresh; strong; hard; w/some anhydrite bedding; (Salina Group - Unit F).	
							134				90°, V, MW, Ca, Fi, SR @ 131.2-131.35'	
							135				0°, J, VN, No, No, PI, SR @ 131.5', 131.8'	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB		APPROVED BY <i>Meyer</i> EM
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							135					
							136				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90° J, VN, Ca, Pa, PI, SR @ 135.2-135.4' 90° J, VN, UK, Pa, PI, SR @ 135.5-136.0' 0° J, T, No, No, PI, SR @ 135.5'	
			136.2				137				fractured @ 136.2-137.2' LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							138					
HQ	23	5.0	2.8	0.0	56	0	139				CLAYSTONE; dark gray; slightly weathered; weak; low hardness; (Salina Group - Unit F). 60° J, N, Cl, Pa, WA, R @ 138.6' 90° J, VN, Cl, Pa, PI, SR @ 138.7' fractured @ 139.0-139.5'	
							140					
							141				90° J, MW, Cl, Fi, PI, R @ 140.9', 141.2', 141.7'	
			141.2				142				DOLOMITE; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).	
							143				10° J, VN, Cl, Pa, PI, SR @ 142.5', 144.1' 90° J, N, Cl, Sp, PI, R @ 142.8-142.9'	
HQ	24	5.0	4.2	1.9	84	39	144				CLAYSTONE; dark gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).	Core box #9 starts @ 142.9'.
							145					
							146					
			146.2				147					
							148				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90° J, T, No, No, PI, SR @ 147.4-147.7', 149.9-151.2' 0° J, T, No, No, PI, SR @ 147.6'	
HQ	25	5.0	1.2	0.0	24	0	149				CLAYSTONE; dark gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).	
							150				DOLOMITE; gray; micritic; fresh; strong; hard; (Salina	

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# BORING LOG

BORING NO. RW-C1

SHEET 11 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5' 580.7 ft (NAVD 88)	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>B. Grainger/Bonnie TB</i>	CHECKED BY <i>S. Dogbey/Bonnie TB</i>	APPROVED BY <i>F. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD RECOVERY	PERCENT RECOVERY	RGD							
							150					Group - Unit F.	
							151			430		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
			151.2				152			429		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							153			428		0°, J, T, No, No, PI, SR @ 152.9'	
HQ	26	5.0	3.5	0.8	70	16	154			427		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
							155			426		90°, J, T, No, No, PI, SR @ 154.5-154.7'	
							156			425			
			156.2				157			424		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							158			423		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
HQ	27	5.0	3.0	0.0	60	0	159			422			
							160			421			
							161			420		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
							162			419		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
			161.2				163			418		90°, J, T, No, No, St, SR @ 160.9'	
							164			417		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	
HQ	28	5.0	3.0	0.4	60	8	165			416		90°, J, T, No, No, St, SR @ 163.4-163.5'	
										415		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	

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# BORING LOG

BORING NO. RW-C1

SHEET 12 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Boh</i> Grainger/Bonnie <sup>TB</sup>		CHECKED BY <i>Boh</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	29	5.0	3.3	0.0	66	0	165	415		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).	Core box #10 starts @ 166.2'.	
			166.2				166	414				
							167	413				
							168	412				
							169	411				
							170	410				
							171	410		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							172	409		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
							173	408		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							174	407		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
HQ	30	5.0	0.8	0.0	16	0	171.2	409				
							172	408				
							173	408				
							174	407				
							175	406				
							176	405				
							177	404				
							178	403				
							179	402				
HQ	31	5.0	1.2	0.0	24	0	176.2	404				
							177	403				
							178	402				
							179	401				
							180	401				

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# BORING LOG

BORING NO. RW-C1

SHEET 13 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>Oct 2007</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>12/5</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer <i>EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	32	5.0	2.3	0.0	46	0	180		180.3		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
			181.2				181		399		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							182		398		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
							183		397		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
							184		396		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							185		395		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
			186.2				186		394		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							187		393		CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F).		
HQ	33	5.0	2.4	0.0	48	0	188		392				
							189		391				
							190		390				
							191		389				
			191.2				192		388				
							193		387				
HQ	34	5.0	0.1	0.0	2	0	194		386				
							195		386				

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1

SHEET 14 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Granger/Bonnie TB</i>		CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							195						
			196.2				196						Water level @ 22.3' prior to drilling on 06/18/07.
HQ	35	5.0	0.2	0.0	4	0	197						
							198						
							199						
							200						
							201						
			201.2				202						
HQ	36	2.5	1.5	0.0	60	0	202						
							203						
							204						
			203.7				205						
HQ	37	2.5	1.0	0.0	40	0	205						
							206						Water pressure on rig spiked
							207						
			206.2				208						
HQ	38	2.5	1.3	0.0	52	0	208						
							209						
			208.7				210						
							210						Water level @ 23.9' prior to drilling on 06/20/07.

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DOLOMITE; shaley; pale yellow; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 10°, J, T, UK, Pa, PI, SR @ 202.2', 202.4', 202.7', 202.8' grades light gray @ ~202.9'

LIMESTONE; vuggy; dark brown; micritic; fresh; very strong; hard; (Salina Group - Unit F).

30°, J, VN, No, No, PI, R @ 205.8'

DOLOMITE; shaley; light yellowish brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).

CLAYSTONE; light gray; soft; (Salina Group - Unit F).

CLAYSTONE; gray; (Salina Group - Unit F).

LIMESTONE; dark gray; micritic; fresh; moderately strong; moderately hard; (Salina Group - Unit F).



# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1

SHEET 15 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>Bonnie</i> Grainger/Bonnie <sup>TB</sup>	CHECKED BY <i>Bonnie</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	39	2.5	0.7	0.0	28	0	210				CLAYSTONE; gray; fresh; (Salina Group - Unit F).	
			211.2				211					
HQ	40	2.5	2.2	0.8	88	32	212				LIMESTONE; dark gray; micritic; fresh; moderately strong; hard; vuggy; (Salina Group - Unit F).	
			213.7				213					
HQ	41	2.5	1.9	0.4	76	16	214				grades dark grayish brown @ 214.0' 90°, J, T, No, No, WA, R @ 214.2-214.8'	
			216.2				215					
							216					
HQ	42	5.0	3.5	0.8	70	16	217					
							218					
							219				DOLOMITE; shaley; light brownish gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F).	
							220				0°, J, T, No, No, PI, R @ 219.0', 219.3', 219.4' 45°, J, T, No, No, PI, S @ 219.6-219.7', 219.8-219.9'	
							221				black shale @ 220.2-220.5'	
							222				90°, J, T, No, No, WA, R @ 220.5-220.7'	
			221.2				221				DOLOMITE; gray & black; fresh; strong; hard; thin to medium bedded; (Salina Group - Unit F).	
							222				LIMESTONE; dark grayish brown; micritic; moderately strong; hard; (Salina Group - Unit F).	
							223					
							224				DOLOMITE; shaley; pale brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).	
HQ	43	5.0	2.8	0.7	56	14	225				60°, J, N, CI, Pa, PI, R @ 223.9' 90°, J, VN, No, No, WA, R @ 224.0-224.5' 90°, J, VN, UK, Pa, PI, R @ 224.2-224.5'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1

SHEET 16 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							225					LIMESTONE; brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	Core box #12 starts @ 225.5'.
							226						
			226.2				227						
							228						
HQ	44	5.0	2.5	0.7	50	14	229					DOLOMITE; shaley; light brownish gray; micritic; strong; hard; massive; (Salina Group - Unit F). 0°, J, VN, No, No, PI, R @ 229.0' 40°, J, N, UK, Pa, R @ 229.4-229.5'	
							230						
							231						
			231.2				232						
							233						
HQ	45	5.0	2.0	0.0	40	0	234					DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F). 70°, J, VN, UK, Pa, WA, R @ 234.8'	
							235						
							236						
			236.2				237						
HQ	46	2.5	0.2	0.0	8	0	238					SHALE; fissile; grayish brown; weathered; very weak; low hardness; w/bands of dolomite & limestone; (Salina Group - Unit F). 90°, J, T, No, No, PI, S @ 235.4-235.6' 0°, J, T, CI, Pa, PI, SR @ 235.6'	
							239						
			238.7				240						

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C1

SHEET 17 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 580.7 ft (NAVD 88) 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>Granger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	47	2.5	0.0	0.0	0	0	240					
			241.2				241					
HQ	48	2.5	0.1	0.0	4	0	242					
			243.7				243					
HQ	49	2.5	0.3	0.0	12	0	244					
			246.2				245					
HQ	50	2.5	0.7	0.0	28	0	246					
			248.7				247					
HQ	51	2.5	1.9	0.4	76	16	248				DOLOMITE; shaley; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
			248.7				249					
			251.2				250				grades not shaley; dark gray @ 250.3' 0°,J,T,No,No,PI,R @ 250.7', 250.9', 251.1'	
							251					
							252				DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; massive; some pitting; (Salina Group - Unit E).	
							253					
							254				0°,J,T,No,No,PI,R @ 253.0'	
HQ	52	5.0	3.5	0.7	70	14	255				0°,J,T,No,No,PI,R @ 253.7', 253.8', 253.9', 254.0'	
							256				0°,J,T,No,No,PI,R @ 254.3', 254.5'	

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# BORING LOG

BORING NO. RW-C1  
SHEET 18 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING		LOGGED BY <i>Grainiger/Bonnie</i> TB	CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>E.M. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							255					50°,J,T,No,No,PI,SR @ 254.9-255.1' 0°,J,T,No,No,PI,R @ 255.0', 255.5'	
			256.2				256						Core box #13 starts @ 256.2'.
HQ	53	5.0	3.2	1.2	64	24	257					90°,J,T,No,No,WA,R @ 258.5-259.0'	
							258					10°,J,T,No,No,PI,SR @ 259.3', 259.8', 260.0'	
							259					0°,J,T,No,No,PI,SR @ 260.5', 260.9'	
			261.2				260						
							261						
HQ	54	5.0	5.0	4.4	100	88	262					90°,J,T,No,No,PI,S @ 263.1'	
							263						
							264					DOLOMITE; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). grades light brownish gray @ 263.9' anhydrite band @ 263.95-264.1'	
							265					20°,J,T,No,No,PI,S @ 264.15, 264.6' 90°,J,VN,No,No,WA,S @ 264.7', 265.3'	
							266					anhydrite band @ 265.3' grades gray @ 265.4'	
			266.2				267						
							268					black shale band; hard @ 266.9-267.1' grades light brownish gray @ 267.1'	
HQ	55	5.0	5.0	4.8	100	96	269					0°,V,VN,anhydrite,Fi,PI @ 267.4', 267.6', 267.7', 268.3' 90°,J,VN,No,No,WA,SR @ 267.8', 268.0', 269.1', 270.2' anhydrite band @ 268.5-268.6'	
							270					90°,V,VN,anhydrite,PI,S @ 268.9' 0°,V,N,anhydrite,Fi,PI @ 269.2' grades gray @ 269.5'	

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# BORING LOG

BORING NO. RW-C1

SHEET 19 OF 19

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 271.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

LOGGED BY <i>Granger/Bonnie</i> TB		CHECKED BY <i>Dogbey/Bonnie</i> TB	APPROVED BY <i>Meyer</i> EM
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								270				0°, V, MW, anhydrite, Fi, PI @ 269.9' grades light brownish gray @ 270.1' anhydrite filled vugs @ 270.5-271.2'	
								271					
								272					
								273					
								274					
								275					
								276					
								277					
								278					
								279					
								280					
								281					
								282					
								283					
								284					
								285					

Bottom of boring @ 271.2'. Water level @ 12.7' @ completion of drilling. Boring caved @ 158.5'. Backfilled w/ bentonite grout to 200' on 08/12/07 & 08/13/07, chips to 1' below ground surface on 08/15/07 & 08/16/07, then gravel to surface on 08/21/07.





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# BORING LOG

BORING NO. RW-C2

SHEET 1 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>ECA</i> Grainger/Ang/Bonnie <sup>TB</sup>		CHECKED BY <i>for</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							0					Poorly graded <u>GRAVEL</u> with Sand (GP) - About 80% fine to coarse, angular, hard gravel w/max. size 1½"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; dry; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1					CONCRETE - 0.8' thick	
							2					Well graded <u>GRAVEL</u> with Silt and Sand (GW-GM) - About 75% fine to coarse, angular, hard gravel w/max. size 3"; about 15% fine to coarse, angular, hard sand; about 10% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	
							3						
							4						
							5						
			5.8				6						Below 5.8' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Discrete sample S1A collected @ 7.0-8.0'.
S	1					NR	7					Poorly graded <u>GRAVEL</u> with Silt and Sand (GP-GM) - About 70% fine to coarse, subangular to subrounded, hard gravel w/max. size 3"; about 20% fine to coarse, subangular to subrounded sand; about 10% fines; dark grayish brown; moist; original field sample had about 25% (by volume) cobbles; (Fill).	
							8						
							9						
			10.0				10						
							11						
S	2					NR	12						
							13					Lean <u>CLAY</u> (CL) - About 90% medium plasticity, medium toughness, no dilatancy fines; about 10% fine to medium sand; dark greenish gray; soft; moist; (Lacustrine Deposit).	Discrete sample S2A collected @ 12.5-13.0'. Below 13.0' continued w/NWJ rods & 4½" tricone bit using bentonite mud as drilling fluid.
			13.0				14					grading to about 100% fines; olive brown; soft; moist	
SPT	3	WOHWOH		1	1	1.1	15						

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# BORING LOG

BORING NO. RW-C2

SHEET 2 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Grainger/Ang/Bonnie TB</i>	CHECKED BY <i>Dogbey/Bonnie TB</i>	APPROVED BY <i>Meyer EM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
SPT	4	1	2	2	4	1.3	15		565			SPT performed w/D-50 automatic hammer. PP = 1.25 TSF @ 14.5'. PP = 2.0 TSF @ 17.0'.	
TW	5					0.7	18		563			Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; light olive brown; firm; moist; homogeneous; (Glacial Till).	
SPT	6	51	33	17	50	0.7	20		561			Sandy Lean CLAY (CL) - About 65% medium plasticity, medium toughness, no dilatancy fines; about 30% fine to coarse, subrounded sand; about 5% fine, subrounded & subangular, hard gravel w/max. size 5/8"; light olive brown; hard; moist; (Glacial Till). PP > 4.5 TSF @ 21.5'.	
SPT	7	7	16	29	45	1.4	24		557			grades dark gray @ 24.5' PP > 4.5 TSF @ 24.0'.	
SPT	8	14	19	20	39	1.5	26		555			Sandy Lean CLAY with gravel (CL) - About 65% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subrounded & subangular sand; about 15% fine to coarse, subrounded & subangular, hard gravel w/max. size 1 1/2"; dark gray; (Glacial Till). PP > 4.5 TSF @ 27.0'.	
SPT	9	22	17	54/3"	50+	1.1	29		552			Clayey GRAVEL (GC) - About 75% fine to coarse, subangular, hard gravel w/max. size 1 1/2"; about 15% fines; about 10% fine to coarse, subangular sand; gray; very dense; moist	
							29.7		551			Below 29.7'	

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# BORING LOG

BORING NO. RW-C2

SHEET 3 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>E.A. Grainger/Ang/Bonnie<sup>TB</sup></i>		CHECKED BY <i>F. Dogbey/Bonnie<sup>TB</sup></i>	APPROVED BY <i>E.A. Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	10					5.0	30					DOLOMITE; crystalline; grayish brown & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Split spoon refusal @ 29.7'. Sonic core stored in box labeled SC1.
							31			550			
							32			549		DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).	
							33			548			
							34			547			
							35			546			
							36			545			
HQ	1	2.6	2.6	2.4	100	92	37			544		DOLOMITE; dark grayish brown; fresh; strong; hard; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 36.7', 36.9'	Set nominal 6" temporary steel casing to 35.7'. Core box #1 starts @ 36.0'. Hole open at 36.0'. Below 36.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 17.0' prior to drilling on 08/01/07. No drilling fluid return @ 38.0'.
							38			543		DOLOMITE; brecciated, healed; dark gray; fresh; strong; hard; w/clasts of grayish brown dolomite; (Bass Islands Group). 15°,J,VN,No,No,PI,R @ 37.75-37.85' 40°,J,VN,No,No,PI,R @ 38.1-38.3'	
HQ	2	2.0	1.9	1.8	95	90	39			542		DOLOMITE; argillaceous; dark grayish brown/grayish brown; fresh; strong; hard; w/stylolites & banding; (Bass Islands Group). shale parting - 0°,B,N,PI,SR @ 38.7' 90°,J,T,No,No,WA,SR @ 38.8-40.6' shale partings - 0°,B,VN,PI,SR @ 40.15', 40.2'	
							40			541			
							41			540		0°,B,T,No,No,PI,SR @ 41.0' shale parting @ 41.0' vugs @ 41.15-47.25'	
							42			539			
HQ	3	5.0	5.0	4.2	100	84	43			538		shale partings - 0°,B,T,PI,SR @ 42.1', 42.55', 42.75', 42.8'	
							44			537		shale partings - 0°,B,T,PI,SR @ 43.6', 44.1'	
							45			536		shale partings - 0°,B,T,PI,SR @ 44.3', 44.4'	

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# BORING LOG

BORING NO. RW-C2

SHEET 4 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>EIA</i> Grainger/Ang/Bonnie <sup>TB</sup>	CHECKED BY <i>EIA</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EIA</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			45.6				45					0°,B,T,No,No,PI,SR @ 44.9'	
							46		535			grades massive; gray shale parting - 0°,B,T,PI,SR @ 45.6'	
							47		534			shale partings - 0°,B,VN,PI,SR @ 45.65', 45.8', 47.1'	
							48		533			0°,B,T,No,No,PI,SR @ 47.1', 47.2'	
HQ	4	5.0	5.0	1.35	100	27	49		532			90°,J,T,No,No,PI,SR @ 47.2-48.2' (parallel)	
							50		531			DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	
							51		530			DOLOMITE; argillaceous; dark grayish brown; fresh; strong; hard; banded; (Bass Islands Group). shale partings - 0° B,VN,PI,SR @ 48.4', 48.5'	
			50.6				52		529			0°,B,T,No,No,PI,SR @ 49.1', 49.2'	
							53		528			75°,J,T,No,No,PI,SR @ 49.2-49.5', 50.2-50.5'	
HQ	5	5.0	5.0	2.1	100	42	54		527			90°,J,T,No,No,PI,SR @ 49.7-49.9'	
							55		526			fossils @ 49.8'	
							56		525			DOLOMITE; gray; micritic; fresh; strong; hard; pitted; (Bass Islands Group).	
							57		524			0°,B,No,No,WA,PI,SR @ 50.5', 51.0'	
							58		523			90°,J,T,No,No,PI,SR @ 50.6-51.2'	
							59		522			fractured @ 51.1-51.3'	
							60		521			DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; very hard; (Bass Islands Group).	
												30°,J,T,No,No,PI,SR @ 51.9-52.2'	
												DOLOMITE; argillaceous; light gray; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).	
												shale parting (0.1") @ 52.4'	
												0°,B,T,No,No,WA,SR @ 52.9'	
												90°,J,T,No,No,PI,SR @ 53.9-54.1'	
												shale parting - 0°,B,VN,PI,SR @ 53.9'	
												shale; very dark gray @ 54.2-54.25'	
												DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; pitted; (Bass Islands Group).	
												60°,J,T,No,No,PI,SR @ 54.5-54.7'	
												shale partings - 0° B,T,PI,SR @ 55.1', 55.3', 58.4'	
												90°,J,T,No,No,PI,SR @ 55.6-56.1'	
												0°,B,T,No,No,PI,SR @ 55.7', 56.1', 59.3'	
												shale partings - 0°,B,T,PI,SR @ 56.2', 57.2', 57.5'	
												15°,J,T,No,No,PI,SR @ 57.7-57.8', 57.9-58.0'	
HQ	6	5.0	4.7	2.9	94	58						0°,J,T,No,No,PI,SR @ 58.1-58.3'	
												50°,J,T,No,No,WA,R @ 58.4-59.6'	
												fossils @ 59.4'	

Core box #2 starts @ 50.6'.

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# BORING LOG

BORING NO. RW-C2  
SHEET 5 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

LOGGED BY <i>Grainiger/Ang/Bonnie</i>		CHECKED BY <i>Dogbey/Bonnie</i>	APPROVED BY <i>Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							60					grades grayish brown @ 59.9' 60°, J, T, No, No, PI, R @ 60.0-60.3'		
			60.6				61					0°, B, No, No, Ir, SR @ 60.8'		
HQ	7	5.0	5.0	2.9	100	58	62					DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°, B, No, No, PI, SR @ 61.7' 60°, J, T, No, No, PI, SR @ 61.9-62.6' grades w/o stylolites @ 62.1'	61.1	
							63					fractured @ 62.7-63.1', 63.3-63.6'		
							64					90°, J, T, No, No, WA, SR @ 63.9-65.0'		
							65					grades w/stylolites @ 64.5' breccia, healed; fine to medium grained @ 64.8-64.9', 65.05-65.15'	Core box #3 starts @ 64.6'	
			65.6				66					0°, B, No, No, PI, SR @ 66.1', 66.25' 90°, J, T, UK, Pa, PI, SR @ 66.4-66.55'	66.6	
HQ	8	5.0	4.8	3.3	96	66	67					DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°, B, T, No, No, PI, SR @ 67.4'		
							68					50°, J, T, No, No, PI, SR @ 68.4-68.7'	68.7	
							69					DOLOMITE; light gray; micritic; fresh; strong; hard; convoluted bedding; (Bass Islands Group). 40°, J, T, No, No, PI, SR @ 69.0-69.15'	69.7	
							70					SHALE; black; fresh; very weak; low hardness; (Bass Islands Group).	69.8	
			70.6				71					DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, J, VN, PI, SR @ 69.9', 70.2', 70.3' 90°, J, T, No, No, PI, SR @ 70.2-70.6'	70.4	
							72					DOLOMITE; brecciated; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). 90°, J, T, VN, No, No, WA, SR @ 70.6-72.0' fractured @ 71.3-71.8'	71.6	
HQ	9	5.0	4.9	1.7	98	34	73					DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). shale partings - 0°, B, T, SR @ 72.0', 72.4', 73.0', 74.05' 0°, B, T, No, No, PI, SR @ 72.4', 73.6' 70°, J, VN, No, No, PI, SR @ 72.6-73.3' fractured @ 73.45-73.5', 74.8-74.85'		
							74							
							75							

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**BORING LOG**

BORING NO. RW-C2  
SHEET 6 OF 6

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6384.1'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 75.5 (feet)
SURFACE CONDITIONS Level gravel parking		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/01/07

SAMPLING		LOGGED BY <i>Good for ECA</i> Grainger/Ang/Bonnie <sup>TB</sup>	CHECKED BY <i>in for</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer <i>SM</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	RQD						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	RQD						
								75				30° J,T,No,No,PI,SR @ 73.6-75.7' shale parting - 10° B,VN,PI,SR @ 73.8' 40° J,VN,No,No,Ir,R @ 75.0'	Bottom of boring @ 75.5'. Water level @ 17.2' @ completion of drilling. Backfilled w/ cement - bentonite grout to 46' bgs on 08/13/07. Continued w/ bentonite chips to 1.5' bgs then gravel to surface on 08/21/07.
								76		505			
								77		504			
								78		503			
								79		502			
								80		501			
								81		500			
								82		499			
								83		498			
								84		497			
								85		496			
								86		495			
								87		494			
								88		493			
								89		492			
								90		491			



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# BORING LOG

BORING NO. RW-C3

SHEET 1 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>Color ECA TB</i> Grainger/Ang/Bonnie		CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		580			Poorly graded GRAVEL with Sand (GP) - About 80% fine to coarse, angular, hard gravel w/max. size 1½"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1		579			Well graded GRAVEL with Sand (GW) - About 80% fine to coarse, angular, hard gravel w/max. size 2"; about 15% fine to coarse, angular, hard sand; about 5% fines; dark grayish brown; moist; strong reaction w/HCl; homogeneous; (Fill).	
							2		578				
							3		577				
							4		576				
			5.1				5	X	575			Poorly graded GRAVEL with Sand and Cobbles (GP) - About 75% fine to coarse, subangular & subrounded gravel w/max. size 3", fractured w/2 hammer blows; about 20% fine to coarse, subangular sand; about 5% fines; grayish brown; dry; original field sample had about 15% by volume cobbles; (Fill).	Discrete sample S1A collected @ 5.1-5.5'. Below 5.1' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	1					NR	6		574				
							7		573				
							8		572				
							9		571				
			10.0				10		570			Lean CLAY (CL) - About 100% medium plasticity, medium toughness, slow dilatancy fines; olive brown; very soft to firm; wet to moist; (Lacustrine Deposit).	PP = 0.0-1.0 TSF @ 10.0-12.0'.
							11		569				
							12		568				
S	2					4.0	13	X	567				Discrete sample S2A collected @ 13.0-13.5'.
							14		566				
							15	X	566				Discrete sample S2B collected @

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# BORING LOG

BORING NO. RW-C3

SHEET 2 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

SAMPLING		LOGGED BY <i>Granger/Ang/Bonnie</i>	CHECKED BY <i>San for Dogbey/Bonnie</i>	APPROVED BY <i>EM Meyer</i>
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
TW	3					0.6	15		565		Gravelly Lean CLAY (CL) - About 60% medium plasticity, medium toughness, no dilatancy fines; about 30% fine to coarse, subangular gravel w/max. size 1", fractured w/2 hammer blows; about 10% fine to coarse, subangular to subrounded sand; light olive brown; soft; moist; (Lacustrine Deposit).	14.5-15.0'. Below 15.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid.	
SPT	4	3	5	9	14	1.6	16		564				
							17		563		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; firm; moist; homogeneous; (Glacial Till).	SPT performed w/D-50 automatic hammer. PP = 3.0 TSF @ 18.0'.	
TW	5					1.3	18		562				
							19		561				
TW	6					0.8	20		560		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% fine, subrounded, hard gravel w/max. size 5/8"; dark gray; hard; moist; (Glacial Till).		
							21		559				
							22		558			PP > 4.5 TSF @ 22.0'.	
SPT	7	14	17	20	57	1.6	23		557				
							24		556				
							25		555		Sandy Lean CLAY with Gravel (CL) - About 70% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded sand; about 15% fine to coarse, subrounded, hard gravel w/ max. size 1/4"; dark gray; hard; moist; (Glacial Till).	PP > 4.5 TSF @ 26.0'.	
							26		554				
SPT	8	16	22	30	52	1.4	27		553		Clayey GRAVEL with Sand (GC) - About 65% fine to coarse, subangular and subrounded; hard gravel w/ max. size 2/4"; about 20% fine to coarse, subangular to subrounded sand; about 15% fines; grayish brown; very dense; moist	Hard drilling @ 27.5'.	
							28		552				
							29		551				
							29.5				DOLOMITE; crystalline; grayish brown; micritic; fresh;	Auger refusal @ 29.5'.	

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# BORING LOG

BORING NO. RW-C3

SHEET 3 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>GA</i> Grainger/Ang/Bonnie		CHECKED BY <i>DB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	9					6	30		550		strong; hard; (Bass Islands Group).	Top of rock @ 29.5'. Below 29.5' advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core box S1 begins @ 29.5'.	
							31		549				
							32		548				
							33		547				
							34		546				
							35		545				
							36		544		DOLOMITE; light brownish gray & dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group).		
							37		543			Driller reported soft material @ 36.9-40.9'.	
							38		542				
							39		541				
							40		540				
							41		539		grades w/stylolites @ 40.5'		
			40.9				42		538		DOLOMITE; argillaceous; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). calcite vugs @ 41.0' 90°, J, T, No, No, WA, SR @ 41.2-41.3' shale partings - 0°, B, VN, WA, SR @ 41.2', 41.3', 41.6', 41.85', 42.05' pitted fossils @ 41.5-41.8'	Hole open to 40.9'. Set nominal 6" temporary steel casing to 40.6'. Below 40.9' advanced w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 40.9'.	
HQ	1	4.2	4.2	0.9	100	21	43		537		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°, B, VN, WA, SR @ 42.3', 42.4', 42.55', 42.7', 42.8', 43.0', 43.1', 43.5', 44.3', 44.5', 45.0' grades gray to dark gray @ 42.5' 90°, J, T, No, No, PI, SR @ 42.8-43.0' (on edge of core)		
							44		536				
							45		536				

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>GRAINGER ECA</i> Grainger/Ang/Bonnie <sup>TB</sup>		CHECKED BY <i>ECA</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>SM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	2	5.0	5.0	1.5	100	30	45		535		90° J, T, No, No, PI, SR @ 43.0-43.1', 42.6-46.7' shale partings - 10° B, VN, WA, SR @ 44.2'	
							46		534		90° J, T, No, No, PI, SR @ 44.5-44.6' 90° J, T, No, No, PI, SR @ 44.6-44.9' 40° J, T, No, No, PI, SR @ 44.6-44.7' fractured @ 44.7-45.0'	
							47		533		30° J, T, No, No, PI, SR @ 45.4-45.5' 90° J, T, No, No, PI, SR @ 45.5-45.9', 46.9-47.4', 47.4-47.6'	
							48		532		70° J, T, No, No, PI, SR @ 45.5-45.8' shale partings - 0° B, VN, PI, SR @ 46.3', 46.6', 46.9', 47.35'	
							49		531		45° J, T, No, No, PI, SR @ 47.1-47.7' shale partings - 0° B, VN, PI, SR @ 47.9', 48.2', 48.6' shale parting - 10° B, VN, WA, SR @ 48.2'	
							50		530		shale partings - 0° B, VN, PI, SR @ 49.0', 49.1', 49.5', 49.7', 49.9' fractured @ 49.1-49.5'	
							51		529		60° J, T, No, No, PI, SR @ 49.2-49.4' 90° J, T, No, No, PI, SR @ 49.7-49.85' fractured @ 49.7-49.9'	
HQ	3	5.0	5.0	3.3	100	66	52		528		0° J, T, No, No, PI, SR @ 50.45' shale parting - 0° B, VN, PI, SR @ 50.8' shale partings - 20° B, VN @ 50.9', 50.95'	
							53		527		DOLOMITE; gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). w/stylolites @ 52.35-52.5'	
							54		526		DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group).	
							55		525		DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; pitted; w/stylolites; (Bass Islands Group). pitted fossils @ 55.2-56.0'	
							56		524		0° J, T, No, No, WA, SR @ 55.6' - fossils in joint weathered shale @ 56.1-56.3'	
HQ	4	5.0	5.0	2.1	100	42	57		523		shale partings - 0° B, VN, PI, SR @ 56.5', 56.9', 58.0', 58.3' 90° J, T, No, No, PI, R @ 56.6-56.95' 80° J, T, No, No, WA, SR @ 57.2-57.6' pitted fossils @ 57.3-57.9'	
							58		522		anhydrite crystals @ 58.0-58.3' 50° J, VN, No, No, PI, SR @ 58.1-58.3' grades dark grayish brown @ 58.3'	Core box #2 starts @ 58.4'.
							59		521		shale parting - 0° B, VN, PI, SR @ 59.4'	
							60				fractured @ 59.6-59.7'	



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# BORING LOG

BORING NO. RW-C3

SHEET 5 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>EM</i> Grainger/Ang/Bonnie		CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	5	5.0	4.2	0.9	84	18	60.1		60		shale parting - 0°B,VN,Ir,R @ 59.9'		
									520				
									61			DOLOMITE; light yellowish brown; micritic; fresh; strong; hard; w/anhydrite and stylolites; (Bass Islands Group).	
									519				
									62			brecciated; healed @ 62.1-62.4'	
									518			90°J,VN,No,No,Ir,R @ 62.4-63.2'	
									63				
									517			0°J,N,No,No,Ir,R @ 63.5', 63.8', 63.9'	
									64			anhydrite filled void, crystalline @ 63.9-64.1'	
									516			30°J,T,No,No,PI,Sr @ 64.3-64.4'	
									65				
									515			shale partings - 0°B,T,PI,SR @ 65.2', 65.3', 65.6', 65.7', 66.1', 66.3'	
									66			60°J,T,No,No,PI,SR @ 65.5-65.6'	
									514			0°B,T,No,No,PI,SR @ 65.5', 66.2', 66.6'	
									67			90°J,T,No,No,PI,SR @ 66.3-66.4'	
									513			shale band; very dark gray @ 66.4-66.45'	
HQ	6	5.0	5.0	4.1	100	82	65.1		68			DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°J,VN,No,No,Ir,SR @ 67.6'	
									69				
									512			0°B,T,No,No,PI,SR @ 68.4'	
									69				
									511			gray @ 69.5-69.55'	
									70				
									510			DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).	
									71			shale partings - 0°B,VN,PI,SR @ 70.5', 71.0', 72.4'	
									509			convoluted bedding @ 71.2-72.2'	
									72			shale partings - 10°J,VN,PI,R @ 71.4', 71.6', 71.8', 72.0', 72.2'	
HQ	7	5.0	4.9	2.2	98	44	70.1		508				
									73			DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
									507			shale partings - 0°B,VN,PI,SR @ 72.9', 73.6', 74.1', 74.2'	
									74				
									506			90°J,T,No,No,PI,SR @ 74.3-74.5', 74.5-74.7'	
									75			shale parting - 0°B,VN,PI,SR @ 74.8'	

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# BORING LOG

BORING NO. RW-C3

SHEET 6 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>EA</i> Grainger/Ang/Bonnie		CHECKED BY <i>EA</i> Dogbey/Bonnie	APPROVED BY <i>EA</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	8	5.0	3.5	1.1	70	22	75		505		0°,B,VN,No,No,PI,SR @ 76.6', 76.7'	No drilling fluid return @ 78.0'.	
							76		504		0°,B,N,CI,Fi,PI,SR @ 77.1'		
							77		503		shale partings - 0°,B,VN,PI,Sr @ 77.5', 79.1'		
							78		502		fractured @ 77.7-79.0'		
							79		501		grades w/stylolites @ 78.5'		
							80		500		0°,J,VN,CI,Sp,PI,R @ 80.3'	30% drilling fluid return @ 80.1'.	
							81		499		clay @ 80.95-81.1'		
							82		498		shale parting - 0°,B,VN,PI,SR @ 80.95'		
HQ	9	5.0	5.0	3.4	100	68	82		498		0°,B,T,No,No,PI,SR @ 81.8', 82.8', 84.1'	Core box #4 begins @ 81.7'.	
							83		497				
							84		496		50°,J,T,No,No,Ir,R @ 83.8-84.0'		
							84		496		fractured @ 84.0-84.5'		
							85		495		80°,J,T,No,No,Ir,R @ 84.5-84.8'		
							86		494				
							87		493		0°,B,VN,No,No,PI,Sp @ 86.3'		
HQ	10	5.0	4.9	4.3	98	86	88		492		shale parting - 0°,B,VN,Ir,SR @ 87.7'		
							88		492		10°,J,VN,No,No,PI,SR @ 88.0'		
							89		491		shale parting @ 88.5'		
							90		491		convoluted bedding @ 89.5-89.7'		

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# BORING LOG

BORING NO. RW-C3

SHEET 7 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

LOGGED BY <i>EM</i> Grainger/Ang/Bonnie		CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	11	5.0	4.5	1.9	90	38	90.1		90.0		0° B, VN, No, No, PI, SR @ 89.8', 90.0'		
									89.9		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 90.6-90.8'		
									489		70° J, VN, No, No, PI, SR @ 91.1-91.3'		
									488		fractured @ 91.2-91.7'		
									487		90° J, T, No, No, PI, SR @ 91.3-91.9'		
									486		shale partings - 70° J, T, PI, SR @ 92.5-92.6'		
									93.3				
									487		SHALE; very dark gray; micritic; slightly weathered; strong; hard; (Bass Islands Group).		
									93.7				
									486		DOLOMITE; light gray & dark gray, mottled; fresh; strong; hard; (Bass Islands Group). grading brecciated, healed; medium to fine grained @ 93.8'		
									93.9				
									485		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). anhydrite crystals @ 94.1-94.3'	90% drilling fluid loss @ 95.0'. Core box #5 starts @ 95.1'.	
									95.1		90° J, T, No, No, PI, SR @ 94.5-94.9'		
HQ	12	5.0	2.3	.3	46	6	95.1		485		0° B, T, No, No, PI, SR @ 97.3'		
									484		fractured @ 97.5-98.0'		
									483				
									482				
									481		shale parting @ 99.1'		
									100		90° J, T, No, No, PI, SR @ 99.2-99.9'		
									100.1		80° J, T, No, No, PI, SR @ 99.5'		
									101		0° B, T, No, No, Ir, R @ 99.6'		
									480				
									101		10° J, T, No, No, PI, SR @ 100.4'		
									479		shale parting - 0° B, T, PI, SR @ 100.5'		
									102		90° J, T, No, No, PI, SR @ 100.5-101.2'		
									478		shale parting - 0° B, T, PI, SR @ 101.2'		
									103				
HQ	13	5.4	5.4	NR	100	NR	100.1		103		shale parting - 10° B, T, PI, SR @ 102.8'		
									477				
									104		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/shale partings and banding; (Bass Islands Group).		
									476		shale partings - 0° B, T, WA, SR @ 103.2', 103.5', 105.0'		
									105		convoluted bedding @ 104.0-104.6'		
									105				



# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C3

SHEET 8 OF 8

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4177.5'	TOTAL DEPTH 105.5 (feet)
SURFACE CONDITIONS Gravel parking area		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 07/31/07

SAMPLING			LOGGED BY <i>EM</i> Grainger/Ang/Bonnie <sup>TB</sup>	CHECKED BY <i>EM</i> Dogbey/Bonnie <sup>TB</sup>	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							105					
									475			
							106		474			
							107		473			
							108		472			
							109		471			
							110		470			
							111		469			
							112		468			
							113		467			
							114		466			
							115		465			
							116		464			
							117		463			
							118		462			
							119		461			
							120					

Bottom of boring @ 105.5'. Water level @ 20.1' at completion of drilling. Boring caved @ 78.1'. Boring backfilled with bentonite chips from 78.1' to 1' bgs then gravel to surface on 08/21/07



# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C4

SHEET 1 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

LOGGED BY <i>TB EA</i> Bonnie/Ang		CHECKED BY <i>EF</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							0		580		Poorly graded GRAVEL (GP) - About 90% fine to coarse, angular to subangular, hard gravel w/max. size 2"; about 5% fine to coarse, angular to subangular sand; about 5% fines; dark reddish gray; dry; weak reaction w/HCl; (Fill).	Boring advanced w/vacuum excavation.	
							1		579				
							2		578				
							3		577				
							4		576				
			4.6				5		575				Below 4.6' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
							6		574			Poorly graded GRAVEL with Silt and Sand (GP-GM) - About 70% fine to coarse, subangular to subrounded gravel w/max. size 3", fractured w/2 hammer blows; about 20% fine to coarse, subangular to subrounded sand; about 10% fines; grayish brown; moist; (Fill).	
							7		573				
							8		572				
							9		571				
							10		570				Discrete sample S1A collected @ 10.0-11.0'
							11		569				
							12		568				
							13		567				
							13.5		567				
							14		566		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; olive brown; firm; moist; (Lacustrine Deposit).	Below 13.5' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud	
							15		566				

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# BORING LOG

BORING NO. RW-C4

SHEET 2 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

SAMPLING		LOGGED BY TB <i>EJA</i> Bonnie/Ang	CHECKED BY <i>EJA</i> Dogbey/Bonnie TB	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	LOGGED BY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD	LOGGED BY						
TW	4						1.2	15		565			as drilling fluid. SPT performed w/D-50 automatic hammer.
								16		564			
								17		563			Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; firm; w/trace fine gravel (Glacial Till).
								18		562			grades hard; w/trace fine to coarse sand & fine to coarse gravel w/max. size 3/4"
TW	5						1.9	19		561			PP = 3.25 to 4.0 TSF @ 18.0'
								20		560			
								21		559			Lean <u>CLAY</u> with Sand (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 10% fine to coarse, subangular, hard gravel w/max. size 3/4"; about 10% fine to coarse, subangular sand; dark gray; hard; moist; (Glacial Till).
TW	6						1.8	22		558			
								23		557			
								24		556			PP > 4.5 TSF @ 20.5'
TW	7						0.7	25		555			
								26		554			
								27		553			Lean <u>CLAY</u> with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subangular, hard gravel w/max. size 1.5"; about 10% fine to coarse, subangular & subrounded sand; dark gray; hard; moist; (Glacial Till).
SPT	8	7	12	13	25		1.4	28		552			
								29		551			
								30		551			Gravelly Lean <u>CLAY</u> with Sand (CL) - About 60% medium plasticity, medium toughness, no dilatancy fines; about 25% fine to coarse, subangular to subrounded gravel w/max. size 1 3/4", fractured w/2 hammer blows; about 15% fine to coarse, subangular to subrounded sand; dark gray; hard; moist; (Glacial

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# BORING LOG

BORING NO. RW-C4

SHEET 3 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

LOGGED BY TB <i>ECA</i> Bonnie/Ang		CHECKED BY TB <i>Emf</i> Dogbey/Bonnie	APPROVED BY <i>Em</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	10	22	14	14	28	1.0	30		550		Till).	
							31		549		Poorly graded GRAVEL with Clay and Sand (GP-GC) - About 75% fine to coarse, subangular, hard gravel w/max. size 1 1/2"; about 15% medium to coarse, subangular to subrounded sand; about 10% fines; grayish brown; medium dense; wet; (Weathered Rock).	
							32		548			
			32.5				33		547		DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; (Bass Islands Group).	Below 32.5' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic Core S-11 & S-12 stored in box labeled SC1.
S	11					3.0	34		546			
							35		545			
			35.5				36		544			
							37		543			
S	12					5.0	38		542			
							39		541			
							40		540			
			40.5				41		539		BRECCIA; poorly indurated to indurated dolomite matrix; gray; micritic; fresh; strong; hard; w/dolomite clasts; light gray; micritic; fresh; strong; hard; (Bass Islands Group).	Set nominal 6" temporary steel casing to 40.6'. Below 40.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 16.0' prior to drilling on 08/12/07.
HQ	1	3.2	1.9	1.3	59	41	42		538		fractured @ 42.3-42.7'	
							43		537			
			43.7				44		536		slightly fractured @ 43.7-44.4' 90°, J, T, No, No, PI, SR @ 43.7-48.7' 0°, B, T, No, No, PI, SR @ 43.9' 10°, J, T, No, No, PI, SR @ 44.2-44.3'	
							45		536			

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# BORING LOG

BORING NO. RW-C4

SHEET 4 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

SAMPLING		LOGGED BY TB <i>EJA</i> Bonnie/Ang	CHECKED BY <i>Tom</i> Dogbey/Bonnie	APPROVED BY <i>FM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RGD	PERCENT RECOVERY	RGD						
HQ	2	5.0	5.0	0.0	100	0	45		535		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). fractured @ 44.4-45.3'	
							46		534		0°,B,T,No,No,PI,SR @ 45.3', 46.3', 46.5', 46.7'	
							47		533		0°,B,T,No,No,PI,SR @ 47.0', 47.4'	
							48		532		0°,B,T,No,No,PI,SR @ 47.6', 47.8'	
							49		531		20°,J,T,No,No,PI,SR @ 48.15-48.2'	
			48.7				50		530		fractured @ 48.7-50.6'	
HQ	3	5.0	4.3	0.0	86	0	51		529		80°,J,T,No,No,PI,SR @ 50.6-50.8'	
							52		528		30°,J,T,No,No,PI,SR @ 50.8-51.0'	
							53		527		fractured @ 51.2-51.8'	
							54		526		90°,J,T,No,No,PI,SR @ 51.8-53.7' (2 Joints)	
							55		525		80°,J,T,No,No,PI,SR @ 51.8-52.4'	
							56		524		grades light gray @ 51.8'	
							57		523		shale partings - 0°,B,VN,PI,SR @ 52.1', 52.6'	
							58		522		shale partings - 0°,B,VN,PI,SR @ 53.0', 53.4'	
							59		521		70°,J,T,No,No,PI,SR @ 53.4-53.7'	
HQ	4	5.0	5.0	3.8	100	76	60		520		DOLOMITE; very dark grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). shale partings - 0°,B,T,PI,SR @ 54.2', 54.6', 55.2', 55.4', 55.7', 56.65', 57.6'	Core box #2 starts @ 55.2'
											90°,J,T,No,No,PI,SR @ 54.3-55.2'	
											0°,B,T,No,No,PI,SR @ 58.15', 58.25'	
											40°,J,VN,No,No,PI,SR @ 58.15-58.25'	
											fossils @ 58.15-58.25'	

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BORING LOG

BORING NO. RW-C4

SHEET 5 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

SAMPLING		LOGGED BY Bonnie/Ang	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	5	5.0	2.8	0.6	56	12	60		520		70° J,T,No,No,PI,SR @ 59.9-60.1' (2 Joints), 61.9' 0°,B,T,No,No,PI,SR @ 59.9', 60.1', 62.0' fractured @ 60.1-60.5' 80° J,T,No,No,PI,SR @ 60.5-60.8'	
							61		519			
							62		518		fractured @ 62.0-62.7'	
							63		517		90° J,T,No,No,PI,SR @ 62.4-62.5' anhydrite bed @ 62.5-63.0'	
							64		516		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
							65		515		0°,B,T,No,No,PI,SR @ 64.85'	
HQ	6	5.0	5.0	2.4	100	48	66		514		DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). shale parting - 0°,B,VN,PI,SR @ 65.3'	
							67		513		DOLOMITE; oolitic; light grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°,B,T,No,No,PI,SR @ 65.6'	
							68		512		90° J,T,No,No,PI,SR @ 65.6-66.1' 0°,B,T,No,No,PI,SR @ 66.1' 60° J,T,No,No,PI,SR @ 66.9-67.4', 67.3-67.5'	
							69		511		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,T,No,No,PI,SR @ 68.0', 68.1', 68.4' mottled, light gray & dark gray @ 68.3-68.5'	
							70		510		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0°,B,T,No,No,PI,SR @ 68.6', 68.7'	
HQ	7	5.0	5.0	1.2	100	24	71		509		90° J,T,No,No,PI,SR @ 69.0-69.4', 71.2-71.6' 0°,B,VN,No,No,PI,SR @ 69.0', 69.4', 69.8', 70.2', 70.3' dolomite; breccia, healed and convoluted bedding @ 69.4-70.2' shale partings - 0°,B,VN,PI,SR @ 70.55',70.8',70.85', 71.6'	Core box #3 starts @ 70.8'
							72		508		90° J,T,No,No,PI,SR 70.8-70.9' 90° J,T,No,No,PI,SR @ 71.18-71.2' shale partings - 0°,B,VN,PI,SR @ 72.05',72.5',72.9'	
							73		507		50° J,T,No,No,PI,SR @ 73.2-73.3' 90° J,T,No,No,PI,SR @ 73.4-73.7'	
							74		506		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 55° J,T,No,No,PI,SR @ 73.8-74.0' fractured @ 73.9-74.5'	
							75		505			

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# BORING LOG

BORING NO. RW-C4

SHEET 6 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

SAMPLING		LOGGED BY Bonnie/Ang <sup>TB</sup> ECA	CHECKED BY Dogbey/Bonnie <sup>TB</sup>	APPROVED BY Meyer <sup>EM</sup>
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	8	5.0	4.6	3.0	92	60	75		505		0°, B, T, No, No, PI, SR @ 74.5', 75.0'	
							76		504		<u>DOLOMITE</u> ; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; w/clasts of dolomite; w/stylolites & calcite & anhydrite healed joints; vuggy (5%); (Bass Islands Group). filled vug (no reaction w/HCl) @ 75.2'	
							77		503		30°, J, T, No, No, PI, SR @ 75.3'	
							78		502		60°, J, T, No, No, PI, SR @ 76.5', 76.7'	
							79		501		0°, J, T, No, No, PI, SR @ 77.6'	
			78.7				80		500		0°, J, T, No, No, Ir, SR @ 78.95', 80.7', 82.0'	
HQ	9	5.0	5.0	2.9	100	58	81		499			
							82		498		fractured @ 82.0-82.5'	
							83		497		30°, J, VN, No, No, WA, SR @ 82.5-83.0'	
							84		496		20°, J, VN, No, No, Ir, SR @ 82.7-82.9'	
							85		495		45°, J, VN, No, No, PI, SR @ 83.1-83.25'	
							86		494		fractured @ 83.3-83.6'	
							87		493		60°, J, T, No, No, PI, SR @ 93.5-93.7'	
							88		492		90°, J, T, No, No, PI, SR @ 83.7-84.0'	
							89		491		0°, J, T, No, No, Ir, SR @ 84.4-84.5'	
							90		490		shale parting @ 85.1'	
											70°, J, T, No, No, WA, SR @ 85.7-86.2'	
											<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	
											0°, B, T, No, No, PI, SR @ 87.3', 87.7', 88.0', 88.35'	
											70°, J, T, No, No, PI, SR @ 87.3-87.6'	
											<u>DOLOMITE</u> ; light gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
											0°, B, T, No, No, PI, SR @ 89.2', 89.4', 89.5', 89.8', 90.2'	
											90°, J, T, No, No, PI, SR @ 89.2-89.6', 89.9-90.2'	

Core box #4 starts @ 83.7'

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C4

SHEET 7 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

LOGGED BY TB Bonnie/Ang ECA		CHECKED BY TB Dogbey/Bonnie	APPROVED BY EM Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	4.4	0.5	88	10	90		490		70° J,T,No,No,PI,SR @ 90.2-90.8'	
							91		489		0° B,T,No,No,PI,SR @ 91.0', 91.4', 91.7', 91.8', 92.0', 92.3'	
							92		488		grades light gray @ 91.1'	
							93		487		SHALE; black; (Bass Islands Group).	
							94		486		DOLOMITE; light gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
							95		485		grades light brownish gray @ 91.9'	
							96		484		70° J,T,No,No,PI,SR @ 92.5-92.8', 91.1-91.3'	
							97		483		0° B,T,No,No,PI,SR @ 92.5', 92.8'	
							98		482		10° J,T,No,No,PI,SR @ 93.95-94.05, 94.4-94.8', 95.05, 95.1'	
							99		481		40° J,T,No,No,PI,SR @ 94.5-94.8'	
							100		480		fractured @ 94.5-94.8'	
							101		479		10° J,T,No,No,PI,SR @ 95.5'	
							102		478		10° J,T,No,No,PI,SR @ 96.15'	
							103		477		fractured @ 97.3-97.5'	
							104		476		10° J,T,No,No,PI,SR @ 98.1'	
							105		475		90° J,T,No,No,PI,SR @ 98.7-98.9'	
											0° B,T,No,No,PI,SR @ 98.85'	Core box #5 starts @ 98.7'.
											shale partings - 0° B,VN,PI,SR @ 99.4', 100.9'	
											slightly brecciated, healed @ 100.1-100.6'	
											anhydrite filled vug @ 100.7'	
											fractured @ 100.95-101.1'	
											slightly brecciated, healed @ 101.2-101.4'	
											shale partings - 0° B,VN,PI,SR @ 101.4', 103.0', 103.1', 103.2'	
											45° J,VN,CI,Sp,PI,SR @ 102.2-102.3'	
											80° J,VN,No,No,PI,SR @ 102.5-103.0'	
											90° J,VN,No,No,PI,SR @ 103.0-103.2'	
											20° J,VN,CI,Sp,PI,SR @ 103.3'	
											DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).	

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# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C4

SHEET 8 OF 10

CLIENT Detroit Edison	PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6291.9' E 4312.0'	GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)
SURFACE CONDITIONS Gravel parking lot	COORDINATE SYSTEM Plant	DATE START 06/13/07
		DATE FINISHED 08/14/07

LOGGED BY <i>TD ECA</i> Bonnie/Ang		CHECKED BY <i>TD</i> Dogbey/Bonnie	APPROVED BY <i>TD</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	14	5.0	4.9	2.8	98	56	105		475		0°,B,VN,No,No,PI,SR @ 105.0'		
							106		474		0°,B,VN,No,No,PI,SR @ 106.05', 106.4', 106.45'		
							107		473		0°,B,VN,No,No,PI,SR @ 106.55', 106.6', 106.7', 106.8', 107.0', 107.4', 107.6', 107.8', 108.0'		
							108		472		90°,J,T,No,No,PI,SR @ 106.8-106.9', 107.7-108.7'		
							109		471		70°,J,T,No,No,PI,SR @ 107.05-107.5'		
							110		470		light grayish brown @ 107.5-108.0'		
HQ	15	5.0	3.5	1.5	70	30	111		469		65°,J,T,No,No,PI,SR @ 108.0-108.3', 108.4-108.7'	Water level @ 20.7' prior to drilling on 08/14/07.	
							112		468		90°,J,T,No,No,PI,SR @ 109.7-109.8', 110.1-110.5', 110.7-110.9' slightly weathered shale partings - 0°,B,VN,PI,SR @ 110.1',110.5', 110.7',110.9'		
							113		467		70°,J,T,No,No,PI,SR @ 110.1-110.5',110.5-110.6', 112.4-112.7'		
							114		466		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). shale partings - 0°,B,VN,PI,SR @ 111.55',111.95', 112.1',112.4', 112.7',112.9'		
							115		465		fractured @ 112.7-112.9'		
							116		464		75°,J,T,No,No,PI,SR @ 113.1-113.7'		
HQ	16	5.0	4.5	2.4	90	48	117		463		0°,B,VN,No,No,PI,SR @ 114.6', 114.9', 115.9'	Core box #6 starts @ 113.7'.	
							118		462		80°,J,T,No,No,Ir,SR @ 115.0-115.15'		
							119		461		10°,J,VN,CI,Sp,PI,SR @ 115.15'		
							120				50°,J,VN,No,No,PI,SR @ 115.35-115.5'		
											60°,J,VN,No,No,PI,SR @ 115.5-115.7'		
											10°,J,T,No,No,PI,SR @ 116.05-116.15'		
											70°,J,T,No,No,PI,SR @ 116.3-116.7'		
											DOLOMITE; brecciated, healed; light grayish brown; micritic; fresh; strong; hard; w/clasts of dolomite; (Bass Islands Group).		
											20°,J,VN,CI,Sp,PI,SR @ 116.7', 116.8'		
											10°,J,T,No,No,PI,SR @ 117.4'		
											grades 5% vuggy @ 118.5'		



# BLACK & VEATCH

# BORING LOG

BORING NO. RW-C4

SHEET 9 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

LOGGED BY TB ECA Bonnie/Ang		CHECKED BY E J Dogbey/Bonnie	APPROVED BY E J Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	17	5.0	2.4	0.3	48	6	120		460		90° J,T,No,No,PI,SR @ 120.0-120.7', 121.0-121.9' 0° B,T,No,No,PI,SR @ 120.2', 120.4', 120.6' 0° B,VN,No,No,PI,SR @ 120.45', 120.8', 120.9'		
							121		459		70° J,T,Anhydrite,Sp,PI,SR @ 121.1-121.25' fractured @ 121.3-121.6' 0° B,VN,No,No,PI,SR @ 121.5' stylolites & anhydrite partings @ 121.6' 0° B,T,Ca,Pa,PI,SR @ 121.8'		
							122		458				
							123		457				
HQ	18	2.5	0.0	0.0	0	0	123.7		456		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 122.0-122.2' 90° J,T,No,No,PI,SR @ 122.0-122.2' anhydrite filled vug @ 122.2' 90° J,T,UK,Sp,PI,SR @ 122.9-123.1'		
							124		455				
							125		454				
							126		453				
HQ	19	2.5	0.1	0.0	4	0	126.2		452				
							127		451				
							128		450				
							129		449				
HQ	20	2.5	0.5	0.0	20	0	128.7		448		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0° B,T,No,No,PI,SR @ 129.7', 129.85' 70° J,T,No,No,PI,SR @ 129.9-130.0'		
							130		447		DOLOMITE; argillaceous; light grayish brown; micritic; fresh; strong; hard; banded; (Salina Group - Unit F). 0° B,T,No,No,PI,SR @ 130.2', 130.35', 130.45', 130.55' grades gray @ 131.5'		
							131		446				
HQ	21	2.5	0.7	0.0	28	0	131.2		445		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/anhydrite bedding; (Salina Group - Unit F).		
							132		444		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).		
							133		443				
							134		442				
							135		441				

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# BORING LOG

BORING NO. RW-C4

SHEET 10 OF 10

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6291.9'	GROUND ELEVATION (DATUM) E 4312.0'	TOTAL DEPTH 146.2 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 08/14/07

SAMPLING		LOGGED BY TB <i>ECA</i> Bonnie/Ang	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	ROD RECOVERY	PERCENT RECOVERY	ROD						
HQ	22	2.5	0.7	0.0	28	0	135		445		90°,J,T,Ca,Sp,PI,SR @ 135.3-136.0' 0°,B,T,No,No,PI,SR @ 135.5', 135.7'	
			136.2						444			
HQ	23	2.5	0.7	0.0	28	0	137		443		LIMESTONE; dark gray; micritic; fresh; strong; hard; pitted; (Salina Group - Unit F). 0°,B,VN,Cl,Ir,SR @ 137.3'	
			138.7						442		0°,B,VN,No,No,PI,SR @ 137.65', 137.75'	
HQ	24	2.5	0.0	0.0	0	0	140		440			
			141.2						439			
HQ	25	2.5	0.0	0.0	0	0	142		438			
			143.7						437			
HQ	26	2.5	0.8	0.0	32	0	145		435			
			146.2						434		CLAYSTONE; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
							147		433			Bottom of boring @ 146.2'. Water level not recorded. Backfilled w/ bentonite chips from 123' to 45' bgs on 09/07/07. Continued w/ bentonite chips to 3' bgs then gravel to surface on 09/12/07.
							148		432			
							149		431			
							150		430			

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# BORING LOG

BORING NO. TB-C1  
SHEET 1 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6671.8'	GROUND ELEVATION (DATUM) E 4382.7'	TOTAL DEPTH 30.9 (feet)
SURFACE CONDITIONS Graveled street		COORDINATE SYSTEM Plant	DATE START 08/26/07	DATE FINISHED 08/27/07

LOGGED BY <i>TB</i> Mass/Bonnie		CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							0				COBBLES - About 100% angular, flat, very hard cobbles w/max. size 8"; brown; dry; weak reaction w/ HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1					
							2					
							3					
							4					
							5					
							6					
S	1		6.0			2.7	6				Well Graded SAND (SW) - About 90% fine to coarse, subangular to angular, hard sand; about 10% angular, very hard cobbles w/max. size 3"; trace low plasticity, low toughness, no dilatancy fines; brown; dense; moist; strong hydrocarbon odor; strong reaction w/ HCl; homogeneous; (Fill).	Below 6.0' continued w/4" ID sonic continuous sampler w/nominal 6" temporary steel casing advanced w/sampler. Discrete Sample labeled SC1.
							7					
							8					
							9					
							10					
			10.0				10				grades w/5% cobbles; 5% fines.	Discrete sample SC-2A collected for geochemical analysis @ 10.0-11.5'.
							11					
							12					
S	2					5.0	12				Organic SOIL (OL) - About 80% low plasticity, low toughness, slow dilatancy fines; about 20% fine to medium sand; very dark brown; soft; moist; combined hydrocarbon odor & organic (swampy) odor; no reaction w/HCl; homogeneous; Peat.	Discrete Sample labeled SC2.
							13					
							14					
							15					

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# BORING LOG

BORING NO. TB-C1  
SHEET 2 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6671.8'	GROUND ELEVATION (DATUM) E 4382.7'	TOTAL DEPTH 30.9 (feet)
SURFACE CONDITIONS Graveled street		COORDINATE SYSTEM Plant	DATE START 08/26/07	DATE FINISHED 08/27/07

SAMPLING		LOGGED BY <i>TKr</i> Mass/Bonnie	CHECKED BY <i>TKr</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
TYPE	NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
TW	3			15.0					Ground water sample taken for chemical analysis @ 15.5'. Set nominal 6" temporary steel casing to 15.5'. Below 15.5' continued w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer. Driller reported drilling through a cobble ~ 4" thick @ 18.3'.				
SPT	4	50/4"	-	-	50+	.35		Gravelly Lean CLAY with Sand (CL) - About 65% medium plasticity, medium toughness fines; 25% fine, subangular gravel w/max. size 3/4"; 10% fine to coarse, subangular sand; trace cobbles; brown; moist; strong reaction w/HCl;					
TW	5					1.1		Lean CLAY with Gravel (CL) - About 85% low plasticity, low toughness, no dilatancy fines; about 15% fine, subangular gravel w/max. size 3/8"; brown; moist; strong reaction w/HCl.					
SPT	6	13	15	21	36	NR		Gravelly Lean CLAY (CL) - About 70% low plasticity, low toughness, no dilatancy fines; about 30% fine to coarse, angular to subangular gravel w/max. size 0.9"; dark gray; moist; strong reaction w/HCl; homogeneous.					

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# BORING LOG

BORING NO. TB-C1  
SHEET 3 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6671.8'	GROUND ELEVATION (DATUM) E 4382.7'	TOTAL DEPTH 30.9 (feet)
SURFACE CONDITIONS Graveled street		COORDINATE SYSTEM Plant	DATE START 08/26/07	DATE FINISHED 08/27/07

SAMPLING		LOGGED BY <i>JB</i> Mass/Bonnie	CHECKED BY <i>EM</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	7	50/4"	-	-		0.2	30	▲	550		grades max. gravel size 1.5"	Auger refusal @ 30.9'	
							31		549			Bottom of boring @ 30.9'. Water level not recorded.	
							32		548			Boring backfilled w/bentonite chips to 5.0'; backfilled to surface w/gravel on 09/12/07.	
							33		547				
							34		546				
							35		545				
							36		544				
							37		543				
							38		542				
							39		541				
							40		540				
							41		539				
							42		538				
							43		537				
							44		536				
							45						

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C2  
SHEET 1 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6520.1'	GROUND ELEVATION (DATUM) E 4394.4'	TOTAL DEPTH 30.0 (feet)
SURFACE CONDITIONS Gravel roadway/storage area		COORDINATE SYSTEM Plant	DATE START 08/25/07	DATE FINISHED 08/28/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dobey/Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	1	7	6	10	16	0.0	0				COBBLES - About 100% angular hard cobbles w/max. size 9"; brown; dry; weak reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					
							11					
							12					
							13					
							14					
SPT	2	4	3	1	4	1.1	14.3				Organic SOIL (OL) - About 100% high plasticity, low toughness, no dilatancy fines; very dark brown; soft to	Below 6.5' continued w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.



# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C2

SHEET 2 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6520.1'	GROUND ELEVATION (DATUM) E 4394.4'	TOTAL DEPTH 30.0 (feet)
SURFACE CONDITIONS Gravel roadway/storage area		COORDINATE SYSTEM Plant	DATE START 08/25/07	DATE FINISHED 08/28/07

SAMPLING		LOGGED BY Bonnie/Grainger	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
TW	3					1.6	15		564		very soft; moist; weak reaction w/HCl; homogeneous; Peat	Water level @ 7.6' prior to drilling on 08/28/07.	
							16		563		Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% sand; brown; hard; moist; strong reaction w/HCl; homogeneous		
SPT	4	3	8	12	20	1.4	17		562				
							18		561				
							19		560		Lean CLAY with Gravel (CL) - About 80% medium plasticity, medium toughness, no dilatancy fines; about 15% fine, subangular to angular gravel w/max. size 1/2"; about 5% sand; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous		
							20		559				
TW	5					0.4	21		558		grades w/ trace cobbles @ 21.5'	Only a piece of cobble recovered in TW5.	
							22		557				
							23		556				
SPT	6	9	15	17	32	NR	24		555		Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine, angular gravel w/max. size 1/4"; about 10% sand; dark gray; hard; moist; homogeneous		
							25		554				
							26		553				
							27		552				
							28		551				
SPT	7	12	50/0.3	-	50+	NR	29		550			Auger refusal @ 30.0'.	
							30		550				

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C2  
SHEET 3 OF 3

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI		COORDINATES N 6520.1'		GROUND ELEVATION (DATUM) E 4394.4' 579.7 ft (NAVD 88)	
SURFACE CONDITIONS Gravel roadway/storage area			COORDINATE SYSTEM Plant		DATE START 08/25/07
					DATE FINISHED 08/28/07
LOGGED BY Bonnie/Grainger			CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer

SAMPLING										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING									
							CORE SIZE	RUN NUMBER	RUN LENGTH							RUN RECOVERY
											30					
												549				
											31					
												548				
											32					
												547				
											33					
												546				
											34					
												545				
											35					
												544				
											36					
												543				
											37					
												542				
											38					
												541				
											39					
												540				
											40					
												539				
											41					
												538				
											42					
												537				
											43					
												536				
											44					
												535				
											45					

Bottom of boring @ 30.0'. Water level not recorded. Boring backfilled w/ bentonite chips to 6.0'; backfilled to surface w/gravel on 08/28/07.



# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C3  
SHEET 1 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6673.8'	GROUND ELEVATION (DATUM) E 4474.6'	TOTAL DEPTH 51.0 (feet)
SURFACE CONDITIONS Gravel parking area.		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

LOGGED BY TB for EA for Bonnie/Ang/Mass		CHECKED BY TB for Dogbey/Mass	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
							0				<p>COBBLES - About 60% angular; elongated, very hard cobbles w/max. size 8"; about 20% fine to coarse, angular, hard gravel w/max. size 3"; 15% fine to coarse, angular, hard sand; about 5% fines; gray; (Fill).</p>	<p>Boring advanced w/vacuum excavation.</p>		
							1							
							2							
							3							
							4							
							5							
							6							
							7							
S	1		7.0				8							<p>Vacuum excavation to 8.0', hole collapsed to 7.0'. Below 7.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p>
							9							
							10							<p>Discrete sample S02A collected @ 12.0-13.0'.</p>
S	2		10.0				11							
							12							
							13							
							14							
							15							

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Fat CLAY - About 100% high plasticity, high toughness, no dilatancy; greenish gray; soft; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).



# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C3

SHEET 2 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6673.8'	GROUND ELEVATION (DATUM) E 4474.6'	TOTAL DEPTH 51.0 (feet)
SURFACE CONDITIONS Gravel parking area.		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

LOGGED BY TB Bonnie/Ang/Mass		CHECKED BY E.M. Dogbey/Mass	APPROVED BY Meyer E.M.
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
S	3					4.5	15		565			Discrete sample S03A collected @ 14.9-15.2'. PP = 1.5 TSF @ 15.0'.
TW	4		18.5			2.0	16		564			Lean CLAY (CL) - About 95% medium plasticity, medium toughness, no dilatancy fines; about 5% sand; brown; firm; moist; no reaction w/HCl; (Glacial Till).
TW	5					1.7	17		563			
SPT	6	6	10	13	23	1.4	18		562			Discrete sample S03B collected @ 17.9-18.1'. PP = 3.0 TSF @ 18.0'. Water level @ 9.5' on 07/26/07. Set nominal 6" temporary steel casing to 18.0'. Hole open to 18.5'. Below 18.5' continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP > 4.5 TSF @ 20.5'. TW-4: tube bent.
							19		561			grades w/trace fine to coarse, subrounded to subangular gravel w/max. size 1/2"; light olive brown; hard @ 20.5'
							20		560			
							21		559			
							22		558			
							23		557			
							24		556			grades grayish brown @ 24.0'
							25		555			
							26		554			Clayey GRAVEL (GC) - About 60% fine to coarse, subrounded to subangular, hard gravel w/max. size 1 1/4"; about 30% medium plasticity, medium toughness, no dilatancy fines; about 10% fine to coarse, subrounded to subangular sand; dark grayish brown; very dense; moist; clay seams.
							27		553			DOLOMITE; weathered.
							28		552			DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).
							29		551			DOLOMITE; light brownish gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). light brownish gray @ 28.9-30.4'
							30					Below 28.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C3  
SHEET 3 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6673.8'	GROUND ELEVATION (DATUM) E 4474.6'	TOTAL DEPTH 51.0 (feet)
SURFACE CONDITIONS Gravel parking area.		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY TB for Bonnie/Ang/Mass	CHECKED BY TB for Dogbey/Mass	APPROVED BY E.M. Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			30.3					30					casing advanced w/sampler.
HQ	1	3.2	3.1	1.0	97	31		31	550		DOLOMITE; grayish brown; micritic; fresh to slightly weathered; very strong; very hard; w/widely spaced stylolites; (Bass Islands Group). 90°, J, Ca, Pa, PI, SR @ 30.4-31.7', 31.4-32.7' 70°, J, Ca, Pa, PI, SR @ 31.3-31.4', 32.7-33.4'		Sonic core S-8 stored in box labeled S1. Set nominal 6" temporary steel casing to 30.3'. Below 30.3' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.
								32	549		claystone parting; very dark gray; fresh; strong; hard; @ 31.8' 90°, J, Ca, Pa, WA, SR @ 32.2-32.7'		
								33	548				
								34	547		80°, J, T, PI @ 33.2-33.8'		
			33.5					34	547		DOLOMITE; argillaceous; grayish brown and light brownish gray, banded; micritic; fresh; very strong; very hard; (Bass Islands Group). claystone parting; very dark gray; fresh; strong; hard; @ 33.9'		Core box #1 starts @ 30.3'. Core loss @ 30.3-30.4'. No drilling fluid return @ 33.5'.
HQ	2	5.0	5.0	2.4	100	48		35	546		80°, J, CI, Pa, PI, SR @ 35.1-35.6' shale parting - 0°, B, PI, SR @ 35.4' large (1.2") vug, partially filled w/0.3" anhydrite crystals @ 35.5'		
								36	545		90°, J, CI, Pa, PI, SR @ 35.6-35.8' 90°, J, No, No, PI, SR @ 35.9-37.4' 60°, J, Ca, Pa, PI, SR @ 36.5-36.8'		
								37	544		stylolites begin @ 36.7' highly fractured @ 37.1-37.2', 37.4-37.6'		
								38	543				
								39	542		DOLOMITE; gray & grayish brown, banded; vuggy; micritic; slightly weathered; strong; hard; (Bass Islands Group).		
			38.5					39	542		70°, J, Ca, Pa, PI, SR @ 39.2-39.6' no vugs @ 39.3-40.1'		
								40	541		0°, B, Ca, FI, PI, SR @ 39.4', 39.5', 40.3' 130°, J, No, No, PI, R @ 39.6-39.8' 80°, J, Ca, Pa, PI, SR @ 39.6-39.7'		
								41	540		20°, J, Ca, Pa, PI, R @ 40.2-40.3' 20°, J, Ca, Pa, PI, SR @ 40.5'		
HQ	3	5.0	5.0	3.5	100	70		41	540		zones of closely spaced stylolites, 4.8" apart beginning @ 40.5'		
								42	539				
								43	538		DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; (Bass Islands Group). highly fractured @ 41.4-41.5'		Drill chatter @ 41.5'.
								44	537		70°, J, No, No, PI, SR @ 41.7-42.0' 0°, B, No, No, PI, SR @ 42.6'		
								45	536		vuggy @ 43.1-43.2' 60°, J, CI, Pa, PI, R @ 43.4-43.5' grades light yellowish brown & gray, banded @ 43.5'		
			43.5					44	537		90°, J, Ca, Pa, PI, SR @ 43.5-44.4' 0°, B, No, No, PI, SR @ 43.8', 44.0'		
								45	536		highly fractured @ 44.2-44.4'		

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C3

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI										COORDINATES N 6673.8'					GROUND ELEVATION (DATUM) E 4474.6'					TOTAL DEPTH 580.6 ft (NAVD 88) 51.0 (feet)				
SURFACE CONDITIONS Gravel parking area.										COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 07/27/07				
SAMPLING										LOGGED BY Bonnie/Ang/Mass					CHECKED BY Dogbey/Mass					APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS												
HQ	4	5.0	4.6	2.5	92	50	45		535		10°, J/B, No, No, PI, S @ 44.9'	Core box #2 starts @ 44.9'.												
							46		534		30°, J, No, No, WA, SR @ 45.5-45.6', 45.7-45.8'													
							47		533		40°, J, No, No, PI, S @ 46.0-46.1'													
							48		532		vugs, elongated axis oriented parallel to 40° @ 46.1-46.4'													
							49		531		highly fractured w/many vertical fractures @ 46.5-47.2'													
							50		530		50°, J, No, No, PI, SR @ 46.8-47.0'	Core loss @ 48.1-48.5'.												
							51		529		DOLOMITE; greenish gray; banded; micritic; fresh; very strong; hard; 0.1" shale partings & widely spaced stylolites; (Bass Islands Group).													
							52		528		50°, J, No, No, PI, SR @ 48.0-48.1'	Core loss @ 49.7-49.9'.												
							53		527		90°, J, T, PI @ 48.6-49.7' (many)													
							54		526		DOLOMITE; argillaceous; dark grayish brown; pitted; micritic; slightly weathered; very strong; very hard; w/ black; very fine grained; fresh; strong; hard; shale partings; (Bass Islands Group).													
							55		525		80°, J, No, No, PI, SR @ 50.2-51.0'	Bottom of boring @ 51.0'. Water level @ 14.9' @ completion of drilling.												
							56		524		90°, J, No, No, PI, SR @ 50.2-50.9'	Backfilled w/ cement-bentonite grout to 35' bgs on 08/13/07. Continued w/bentonite chips to 2' bgs then gravel to surface on 08/22/07.												
							57		523		highly fractured @ 50.4-50.7'													
							58		522															
							59		521															
							60																	



# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C4

SHEET 1 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4520.7'	TOTAL DEPTH 54.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

LOGGED BY <i>TB for Bonnie/Ang/Mass</i>		CHECKED BY <i>ECA TB for Dogbey/Mass</i>	APPROVED BY <i>EM Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RQD						
								0					
								1		580			
								2		579			
								3		578			
								4		577			
								5		576			
								6		575			
								7		574			
S	1		6.9				NR	8		573			
								9		572			
								10		571			
S	2		10.0				NR	11		570			
								12		569			
								13		568			
S	3		12.5				NR	14		567			
								15		566			

Well graded GRAVEL with Cobbles (GW) - About 70% fine to coarse, angular, hard gravel w/max. size 3"; about 15% angular, hard cobbles w/max. size 4"; about 10% fine to coarse, angular to subangular, hard sand; about 5% low plasticity, low toughness, rapid dilatancy, low dry strength fines; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).

grades light brownish gray; wet.

grades light gray.

Boring advanced w/vacuum excavation.

Below 6.9' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S-1.

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4520.7'	TOTAL DEPTH 54.0 (feet)
SURFACE CONDITIONS Gravel parking lot		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY TB for ECA TB for Bonnie/Ang/Mass	CHECKED BY TB for Dogbey/Mass	APPROVED BY Meyer
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CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							15				grades very dark gray.	
S	4		16.4			1.6	16				Fat CLAY with Sand (CH) - About 75% high plasticity, medium toughness, no dilatancy, very high dry strength fines; about 25% fine sand; very dark gray; soft; wet; organic odor; strong reaction w/HCl; homogeneous; wood fragments; (Lacustrine Deposit).	Discrete sample S02A collected @ 17.2-17.5'. Hole open to 18.0'. Set nominal 6" temporary steel casing to 18.0'. Water level @ 5.5' prior to drilling on 07/25/07. Below 18.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. PP > 4.5 TSF @ 21.75'.
TW	2		18.0			0.7	18				Sandy Lean CLAY (CL) - About 70% medium plasticity, medium toughness, no dilatancy fines; about 20% fine to coarse, subrounded to subangular sand; about 10% fine to coarse, subrounded to subangular gravel w/max. size 6/8", fractured w/3 hammer blows; dark gray; hard; moist; (Glacial Till).	
SPT	3	8	13	17	30	1.2	19					
							20					
SPT	4	7	9	11	20	0.5	21					
							22					
SPT	5	50/5"			50+	0.3	23					
							24					
							25					
							26					
							27					
							28					
S	6		28.5			1.4	29				DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). grades light brownish gray & dark gray, mottled @ 28.7'	Below 28.5' continued w/4" ID sonic continuous sampler w/
							30					

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C4  
SHEET 3 OF 4

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6510.2'					E 4520.7'					580.7 ft (NAVD 88)		54.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		07/27/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										TB for Bonnie/Ang/Mass					ECA TB for Dogbey/Mass					E.M. Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS						
											CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY		RQD RECOVERY	PERCENT RECOVERY	RQD			
S	7					1.1	30		550		DOLOMITE; light brownish gray; micritic; fresh; strong; hard, w/stylolites; (Bass Islands Group).				nominal 6" temporary steel casing advanced w/sampler.						
HQ	1	3.0	2.8	2.6	93	87	31		549		DOLOMITE; grayish brown to dark grayish brown; micritic; fresh; very strong; hard; w/very widely spaced, very dark gray, very fine grained, fresh, strong, hard, shale partings; (Bass Islands Group). closely spaced stylolites @ 31.2-31.5' 85°, J, VN, WA @ 31.6-32.0' pitted (pits ~ 0.08") @ 32.1-32.7'				Sonic core S-6 and S-7 stored in box labeled S1. Hole open to 31.0'. Set nominal 6" temporary steel casing to 30.5'. Below 31.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 31.0'. Water level @ 14.9' prior to drilling on 07/27/07. No drilling fluid return @ 36.0'.						
HQ	2	5.0	5.0	3.5	100	70	32		548		90°, J, Ca, Pa, PI, SR @ 33.4-33.8' vuggy @ 34.0-34.9'										
HQ	3	5.0	5.0	0.9	100	18	33		547		0°, B, CI, FI, PI, SR @ 34.9'										
							34		546		DOLOMITE; argillaceous; olive gray; micritic; fresh to slightly weathered; strong; very hard; w/very dark gray, very fine grained, fresh, strong, moderately hard, shale partings; (Bass Islands Group). 80°, J, N, Ca, Pa, PI @ 35.3-35.9' 80°, J, VN, Ca, Pa, PI @ 35.5-36.2' very closely spaced shale partings @ 36.2-36.4' vuggy @ 37.0' vugs (largest = 1.1"), partially filled w/anhydrite crystals (0.3") @ 37.2-37.4' gray @ 37.3-40.3' 20°, J, CI, FI, PI, SR @ 37.7', 38.8' 10°, J, CI, FI, PI, SR @ 38.3'										
							35		545		30°, J, UK, FI, PI, SR @ 39.4' 20°, J, UK, FI, PI, SR @ 39.5'										
							36		544		0°, J, UK, Pa, PI, SR @ 40.1, 40.3' grades gray, banded; fresh; very strong; w/closely spaced stylolites; bands angled 30° @ 40.3' 70°, J, No, No, PI, R @ 40.4-40.6'										
							37		543		DOLOMITE; light olive gray & gray, banded; micritic; fresh to slightly weathered; strong; hard; w/stylolites & closely spaced shale partings; (Bass Islands Group). highly fractured @ 41.0-41.2' 50°, J, No, No, St, R @ 41.2-41.5' 0°, J, No, No, PI, SR @ 41.7' 90°, J, T to N, Ca, Pa, PI, SR @ 41.9-43.5'										
							38		542		90°, J, No, No, WA, SR @ 43.4-43.8'										
							39		541		grades light brownish gray & light gray, banded @ 44.0'										
							40		540												
							41		539												
							42		538												
							43		537												
							44		536												
							45		536												

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C4  
SHEET 4 OF 4

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6510.2'					E 4520.7'					580.7 ft (NAVD 88)		54.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		07/27/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Ang/Mass					Dogbey/Mass					Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS		REMARKS								
											CORE SIZE	RUN NUMBER		RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD			
HQ	4	5.0	5.0	2.9	100	58	45				highly fractured @ 44.9-45.1'	Core box #2 starts @ 44.9'									
							46				very closely spaced stylolites @ 45.8-45.9' 70°, J, No, No, PI, SR @ 46.1-46.6'										
							47				DOLOMITE; argillaceous; gray & light gray, banded; pitted; micritic to very fine grained (crystalline); fresh; very strong; very hard; pits 0.04-0.08"; w/very closely spaced stylolites; (Bass Islands Group). 75°, J, No, No, PI, SR @ 46.5-46.8'										
							48				highly fractured w/many approx. vertical fractures @ 46.6-47.2'										
							49				80°, J, No, No, PI, R @ 47.0-47.2' (2), 47.3-47.5' banding more pronounced @ 48.4-50.9'										
HQ	5	2.0	1.9	1.4	95	70	49.0				90°, J, No, No, PI, SR @ 49.3-49.5', 49.8-49.9', 50.1-50.2' 80°, J, No, No, PI, R @ 49.3-49.7'										
							50				0°, J, CI, PI, SR @ 50.4'										
							51				DOLOMITE; grayish brown; pitted; micritic to very fine grained (crystalline); slightly weathered; very strong, hard; w/beds of fossils (mollusks) & widely spaced stylolites; pits 0.04-0.24"; (Bass Islands Group). dense fossil bed @ 51.2'										
HQ	6	3.0	2.5	1.0	83	33	51.0				0°, B, Ca, Pa, PI, SR @ 52.3' 90°, J, Ca, CI, Pa, PI, SR @ 52.5-52.9' 60°, J, Ca, Pa, PI, SR @ 52.6-52.9' 40°, J, CI, FI, PI, SR @ 53.0' 40°, J, CI, FI, PI, SR @ 53.1-53.2' 20°, J, CI, FI, PI, SR @ 53.4-53.5' 70°, J, Ca, Pa, PI, SR @ 53.7-53.9'										
							52														
							53														
							54					Core loss @ 53.7-54.0'. Bottom of boring @ 54.0'. Water level @ 14.7' @ completion of drilling. Backfilled w/ cement-bentonite grout to 38' bgs on 08/13/07. Continued w/bentonite chips to 2' bgs & backfilled w/ gravel to surface on 08/21/07.									
							55														
							56														
							57														
							58														
							59														
							60														



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**BORING LOG**

BORING NO. TB-C5  
SHEET 1 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, Mi		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY TB for Bonnie/Grainger	CHECKED BY TB for Dogbey/Bonnie	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							0						
							1						
							2						
							3						
							4						
							5						
S	1		5.0				6						
							7						
							8						
							9						
							10						
							11						
							12						
S	2		10.0				13						
							14						
							15						

Poorly graded GRAVEL - About 85% subangular, hard gravel w/max. size 3"; about 5% cobbles w/max. size 6"; about 5% sand; about 5% fines; dark reddish gray; dry; no reaction w/HCl; (Fill).

Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Sonic core stored in box labeled S1. Discrete sample S1 collected @ 7.5-7.8'; stored in box labeled S1.

Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy fines; about 5% sand; soft; mottled black & dark gray; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).

Discrete sample S2A collected @ 10.5-10.8'; stored in box labeled S1.

Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; light brownish gray; soft; moist; no reaction w/HCl; (Glacial Till).

Discrete sample S2B collected @ 13.3-13.6'; stored in box labeled S1. Sonic core

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# BORING LOG

BORING NO. TB-C5

SHEET 2 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07
SAMPLING		LOGGED BY TB <i>Geo for</i> Bonnie/Grainger	CHECKED BY TB Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer

SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER							SET 6 INCHES
CORING		CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD
SAMPLE TYPE	SAMPLE NUMBER							
S	3	15.0				grades brown; hard; weak reaction w/HCl	stored in box labeled S1. Sonic core stored in box labeled S2.	
S	4	20.0				Sandy Fat CLAY with Sand (CH) - About 75% high plasticity, high toughness fines; about 25% fine to coarse, subrounded to subangular sand; brown; hard; moist; strong reaction w/HCl	Discrete sample S3A collected @ 17.5-17.8'; stored in box labeled S2.	
S	5	26.5				grades dark grayish brown	Discrete sample S4A collected @ 22.0-22.3'; stored in box labeled S2. Sonic core stored in box labeled S2.	
S	5	27.0				DOLOMITE; light brownish gray & gray, mottled; micritic; slightly weathered; strong; hard; thin bedded; (Bass Islands Group).	Discrete sample S4B collected @ 25.0-25.3'; stored in box labeled S2.	
NR		29.0				DOLOMITE; banded; light brownish gray; micritic; slightly weathered to fresh; very strong; hard; w/very thin argillaceous partings < 0.04"; (Bass Islands Group).	Below 26.5' continued w/ sonic continuous sampler using water as drilling fluid. Sonic core stored in box labeled S3. Discrete sample S5 collected @ 27.0-27.3';	

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# BORING LOG

BORING NO. TB-C5

SHEET 3 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY TB <i>Bo</i> Bonnie/Grainger	CHECKED BY <i>Bo</i> Dogbey/Bonnie	APPROVED BY <i>Bo</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	1	2.0	1.6	0.0	80	0	30				90°,J,VN,No,No,PI,R @ 29.5-31.9'	stored in box labeled S3. Set nominal 6" temporary steel casing to 28.8'. Below 29.0' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water Level @ 13.6' on 07/10/07. No drilling fluid return @ 29.0'. Core box #1 starts @ 29.0'. 100% drilling fluid return @ 30.5'.  No drilling fluid return @ 36.5'.  Core box #2 starts @ 38.5'.  Core barrel blocked @ 40.8'.
			31.0				31				<u>DOLOMITE</u> ; argillaceous; light brownish gray; very fine grained; fresh; strong; hard; w/stylolites; (Bass Islands Group).	
							32				0°,B,N,UK,Pa,PI @ 32.8'	
PQ	2	5.0	5.0	5.0	100	100	33				pitted to vuggy @ 33.9-35.0'	
							34					
							35				0°,B,N,UK,Pa,PI @ 35.0' 80°,J,N,Ca,PI,SR @ 35.0-35.8' 90°,J,T,UK,PI @ 35.6'	
			36.0				36				10°,B,VN,UK,Sp,PI,SR @ 36.4'	
							37					
PQ	3	4.2	4.2	4.0	100	95	38				10°,B,VN,UK,Sp,PI,SR @ 38.5'	
							39				10°,B,VN,UK,Sp,PI,SR @ 39.1'	
							40					
PQ	4	0.8	0.8	0.0	100	0	40.2					
			41.0				41					
							42					
							43				10°,B,N,UK,Sp,PI,R @ 42.9'	
PQ	5	5.0	5.0	3.2	100	64	43.2				Two 90° Joints,T,No,No,St,VR closely spaced parallel @ 40.2-43.0'	
							44				90°,J,T,No,No,St,VR closely spaced parallel @ 43.2-46.0'	
							45				10°,B,N,UK,Sp,PI,R @ 43.9' 10°,B,N,UK,Sp,PI,R @ 44.1'	

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# BORING LOG

BORING NO. TB-C5

SHEET 4 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY TB <i>GLO for</i> Bonnie/Grainger	CHECKED BY TB <i>for</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							45				90°, J, T, Ca, Pa to Fi, St, VR @ 44.9-46.9'	
							46		535		10°, B, N, UK, Sp, PI, R @ 45.5'	
			46.0				46				DOLOMITE; crystalline; banded, gray & dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	Drill chatter @ 46.5-47.5'
							47		534			
							48		533		90°, J, T, Ca, Pa to Fi, St, VR @ 47.5-49.6'	Core box #3 starts @ 47.4'
PQ	6	5.0	5.0	3.2	100	64	48				0°, B, T, UK, Fi, PI @ 47.4', 47.6', 47.9'	
							49		532		0°, B, T, UK, Fi, PI @ 48.7'	
							50		531			
							51		530		¼" black shale seam @ 50.5'	
			51.0				51				DOLOMITE; argillaceous; dark gray; slightly weathered; strong; hard; thick bedded; vuggy; w/stylolites & weathered vugs; (Bass Islands Group).	
							52		529		0° B, Ma, Fi, PI, R @ 51.0'	
							52				70°, J, VN, No, No, PI, R @ 51.6-52.6'	
							53		528		0°, B, Ma, Fi, PI, R @ 52.1'	
PQ	7	5.0	5.0	3.1	100	62	53				0°, B, Ma, Fi, PI, R @ 52.8'	
							54		527		closely spaced vertical joints @ 54.2-59.4'	
							55		526		0°, B, Ma, Fi, PI, R @ 54.2'	
							55				0°, B, Ma, Fi, PI, R @ 54.7'	
							56		525		0°, B, Ma, Fi, PI, R @ 55.3'	
							56				0°, B, Ma, Fi, PI, R @ 55.6'	
			56.0				56				DOLOMITE; crystalline; light brownish gray; micritic; fresh; moderately strong; hard; w/stylolites; (Bass Islands Group).	Core box #4 starts @ 56.0'
							57		524		contorted, highly fractured fractures filled with ahydrite @ 56.0-59.4'	
							58		523		crystal-filled vugs @ 56.0' & 57.5'	
PQ	8	5.0	5.0	3.0	100	60	58					
							59		522			
							60		521			

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# BORING LOG

BORING NO. TB-C5

SHEET 5 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY Bonnie/Grainger <i>TB</i>	CHECKED BY Dogbey/Bonnie <i>TB</i>	APPROVED BY Meyer <i>sm</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			61.0					60					
								61					Water level @ 14.0' prior to drilling on 06/11/07.
								62					
PQ	9	5.0	5.0	4.5	100	90		63				DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; very strong; hard; massive; (Bass Islands Group). 60°, J, T, No, No, Pl, R @ 63.0' 0.05" thick, very dark gray shale parting @ 62.4'	
								64					
								65				bedding convoluted @ 64.9-65.5'	
								66				DOLOMITE; white; micritic; fresh; very strong; hard; medium bedded; interbedded w/argillaceous, very dark gray partings; (Bass Islands Group). 60°, J, T, No, No, Pl, R @ 64.9'	Core box #5 starts @ 65.5'
			66.0					67				SHALE; very dark gray; platy; very fine grained; fresh; moderately strong; low hardness; (Bass Islands Group).	
								68				DOLOMITE; white; micritic; fresh; very strong; hard; medium bedded; interbedded w/argillaceous, very dark gray partings; (Bass Islands Group). bedding convoluted @ 66.8-67.8'	
PQ	10	5.0	4.9	4.3	98	86		69				0.01" thick black shale parting @ 67.4'	
								70				0°, B, VN, UK, Pa, Pl, Sp @ 67.8', 68.4', 68.5', 69.4', 69.8'	
								71				0°, B, VN, UK, Pa, Pl, Sp @ 70.3' 90°, J, T, H, VR @ 70.3-70.8'	
			71					72				20°, J, N, No, No, St, VR @ 71.5'	Run PQ-11: Lost 1' of core; went back in & recovered to get result shown.
								73				0°, B, MW, No, No, Pl, R (weathered) @ 72.0'	
								74				DOLOMITE; crystalline; light brownish gray; micritic; fresh; extremely strong; hard; massive w/closely spaced stylolites; (Bass Islands Group). 50°, J (weathered) @ 73.3'	
PQ	11	5.0	4.9	4.9	98	98		75				50°, J, T, Ca, Fi, Pl, SR @ 74.7', 74.8'	

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# BORING LOG

BORING NO. TB-C5  
SHEET 6 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY Bonnie/Grainder	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	12	4.6	5.0	5.0	100	100	75						
			76.0				76						Core box #6 starts @ 76.0'
							77						
							78						
							79						
PQ	13	0.6	80.4	0.6	100	100	80						core barrel jammed @ 80.4', barrel full.
			81.0				81						
							82					0°, B, N, UK, Sp, WA, SR @ 82.0'	
							83					0°, B, N, UK, Sp, WA, SR @ 83.0'	
PQ	14	5.0	5.0	3.7	100	74	83					weathered soft clay seam @ 83.3-83.5'	clay seam @ 83.5' temporarily blocked water
							84					0°, B, MW, CI, Sp, SR (weathered) @ 83.7'	
							84					0°, B, MW, CI, Sp, SR (weathered) @ 83.8'	
							85						Core box #7 starts @ 84.5'
							85					50°, J, VN, No, No, PI, R @ 85.0'	
							85					0°, B, MW, CI, Sp, SR (weathered) @ 85.1'	
							85					0°, B, MW, CI, Sp, SR (weathered) @ 85.2'	
			86.0				86						Drill chatter @ 85.2'
							87						
							87						
							88						
PQ	15	5.0	5.0	3.0	100	60	88					SHALE; dolomitic w/shale interbeds; (Bass Islands Group).	
							88					50°, J, MW, CI, Sp, WA (weathered) @ 87.5'	
							88					shale; black; platy @ 88.1-88.2'	
							88					0.05' soft weathered shale @ 88.5'	
							89						
							89						
							90						
							90						

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# BORING LOG

BORING NO. TB-C5  
SHEET 7 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY <i>TS</i> Bonnie Grainger		CHECKED BY <i>TS</i> Dogbey/Bonnie	APPROVED BY <i>TS</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
PQ	16	5.0	5.0	3.0	100	60	90				shale seams & stylolites; (Bass Islands Group).		
			91.0				91						
							92				1/4" black shale parting @ 92.5'	Core box #8 starts @ 92.0'.	
							93				10° B, MW, CI, Sp, PI, R (weathered) @ 93.1' 90° J, T, No, No, Ir, VR @ 93.1-94.0'		
							94						
							95				10° B, MW, CI, Sp, PI, R (weathered) @ 94.5' 1/4" black shale parting @ 94.8'		
							96						
			96.0				97				irregular, very dark gray dolomite inclusion @ 97.0'		
							98						
PQ	17	5.0	5.2	4.8	100	98	98				<u>DOLOMITE</u> ; crystalline; dark gray; micritic; fresh; very strong; hard; medium bedded; w/argillaceous seams & partings; (Bass Islands Group). 0° B, MW, No, PI, R (weathered) @ 98.0' contorted bedding deformation @ 98.8-99.1'		
							99						
							100						
							101				0° B, N, CI, Pa, WA (weathered) @ 101.0'		
			101.0				102				fractured @ 101.6-101.7' 0° B, N, CI, Pa, WA (weathered) @ 101.7' 80° J, T, No, No, PI, R @ 102.0' fractured @ 102.2'-102.4'	Core box #9 starts @ 102.4'.	
							103				0° B, N, CI, Pa, WA (weathered) @ 102.4' 0° B, N, CI, Pa, WA (weathered) @ 102.7' fractured @ 102.8-103.5'		
PQ	18	5.0	4.9	2.4	98	48	103				0° B, N, CI, Pa, WA (weathered) @ 103.5'		
							104						
							105				90° J, T, H, Ir, P @ 104.5-106.0'		

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# BORING LOG

BORING NO. TB-C5

SHEET 8 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								105				0°,B,N,Ci,Pa,WA (weathered) @ 105.0',105.2'	
										475		0°,B,N,Ci,Pa,WA (weathered) @ 105.6'	
			106.0					106				90°,J,T,H,Ir @ 106.0-107.2'	
										474		0°,B,N,No,No,PI,R (weathered) @ 106.2'	
								107					
										473		0°,B,N,No,No,PI,R (weathered) @ 107.7'	
PQ	19	5.0	5.0	2.7	100	58		108				90°,J,T,H,Ir @ 108.5-109.5'	
										472		0°,B,N,No,No,PI,R (weathered) @ 109.0'	
										471		0°,B,N,No,No,PI,R (weathered) @ 109.3'	
								110				60°,J,T,No,No,PI,SR @ 109.5',109.6'	
										470		70°,J,T,H,Ir @ 110.5-111.0'	
			111.0					111					
										469		0°,B,MW,Ca,Fi,PI @ 111.9'	Core box #10 starts @ 111.9'
										468		80°,J,Ca,Fi,PI,R @ 112.3'	
												80°,J,W (weathered) @ 112.5'	
PQ	20	5.0	5.0	3.7	100	74		113				0°,B,W,Ci,Fi (weathered) @ 112.6',112.8'	
										467		30°,J,N,No,No,PI,R @ 113.4', 113.5'	
												DOLOMITE; crystalline; dark grayish brown; micritic; fresh; very strong; hard; massive; w/pits & argillaceous seams; (Bass Islands Group).	
										466		30°,J,N,No,PI,R @ 113.6'	
												90°,J,T,Ca,Pa,PI,R @ 114.2-115.2'	
										465		30°,J,N,No,PI,R @ 114.2'	
												60°,J,N,No,No,PI,R @ 115.3-116.0'	
			116.0					116				80°,J,N,Ca,Fi,PI @ 116.0-116.9'	
										464		0°,B,W,Ci,Fi @ 116.0'	
												45°,J,W,Ci,Fi @ 116.2'	
								117				brecciated, healed @ 116.6-117.9',118.5-119.6'	
										463			
PQ	21	5.0	5.0	3.8	100	76		118				0°,B,W,Ci,Fi @ 118.0'	
										462			
								119					
										461		80°,J,N,Ca,Fi,PI @ 119.5-121.0'	
								120					

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# BORING LOG

BORING NO. TB-C5  
SHEET 9 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07
LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer	

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
								120					
								121				45° J,W,Ci,Fi @ 120.6'	
			121.0					121				80° J,N,No,No,PI,SR @ 121.0-121.7', 121.3-121.9'	Core box #11 starts @ 121.3'
								122				<u>DOLOMITE</u> ; crystalline; gray; micritic; fresh; very strong; very hard; interbedded w/dark gray, argillaceous dolomite, fresh to slightly weathered & shale partings; (Salina Group - Unit F).	
								123				80° J,N,No,No,PI,SR @ 121.6-122.2'	
PQ	22	5.0	4.6	0.0	92	0		123				fractured along bedding @ 122.0-123.1'	
								124				0.1" thick shale parting @ 122.3'	
								124				fractured along bedding @ 123.4-123.7'	
								125				fractured along bedding @ 124.0-124.2'	
								125				fractured along bedding @ 124.8-125.3'	Water level @ 11.2' on 07/12/07.
								125				90° J,N,No,No,Ir,VR @ 122.3-123.7', 124.8-125.3'	
								126					
			126.0					126				<u>DOLOMITE</u> ; shaley; interbedded w/ <u>DOLOMITE</u> ; argillaceous; gray & light brownish gray; very fine grained; slightly weathered; weak to moderately strong; moderately hard; banded w/anhydrite bands & fillings along bedding; (Salina Group - Unit F).	Core loss @ 126.3', 128.2', 129.8'
								127				0° B,MW,No,No,PI (weathered) @ 126.4', 126.9', 127.2', 127.7'	
PQ	23	5.0	4.0	1.0	80	20		128				30° J,N,No,No,PI,R @ 127.2'	
								128				90° J,N,No,No,PI,R @ 128.0-128.8'	
								129				0° B,MW,No,No,PI (weathered) @ 128.5'	
								129				0° B,MW,No,No,PI (weathered) @ 128.8'	
								130					
								131					
			131.0					131				0° B,MW,No,No,PI (weathered) @ 130.9'	Core box #12 starts @ 131.0'
								132					
								133					
PQ	24	5.0	2.9	0.0	58	0		133				<u>LIMESTONE</u> ; crystalline; dark gray; very fine grained; slightly weathered; medium strong; medium hard; w/ thin clay seams; (Salina Group - Unit F).	
								134					
								134				0° B,MW,No,No,PI (weathered) @ 133.9'	
								134				clay seams @ 134.7', 135.1', 136.0'	
								135				0° B,MW,No,No,PI (weathered) @ 134.5'	

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C5  
SHEET 10 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB Bonnie/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							135					0°, B, MW, No, No, PI (weathered) @ 135.4'	
			136.0				136					CLAYSTONE; dolomitic; gray; slightly weathered; weak to moderately strong; moderately hard; w/layers of crystalline limestone & dolomite; (Salina Group - Unit F).	
							137					fractured w/closely spaced vertical joints & beddings @ 136.0-137.7'	
PQ	25	5.0	4.5	0.8	90	16	138					20°, J, N, Ca, Fi, PI @ 137.9'	
							139					0°, B, N, Ca, Fi, PI @ 138.0', 138.2'	
							140					0°, B, N, Ca, Fi, PI @ 138.4'	
							141					0°, B, N, Ca, Fi, PI @ 138.9', 139.1'	
							142					limestone layers @ 139.4-139.8'	
			141.0				141					limestone layers @ 140.5-142.2'	
							142					0°, B, N, No, PI, R @ 141.3'	
							143					DOLOMITE; crystalline; gray; micritic; fresh; moderately strong; fractured; (Salina Group - Unit F).	Core box #13 starts @ 142.2'.
PQ	26	5.0	3.0	0.0	60	0	143					0°, B, weathered clay seams @ 142.4', 143.5'	
							144					90°, J, N, No, No, PI, R @ 142.6-143.5'	
							145					60°, J, N, No, No, PI, R @ 143.0'	Soft drilling @ 143.5-146.0'; core losses.
							146					0°, B, N, No, PI, R @ 142.8', 142.9', 143.3'	
			146.0				146					CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F).	
							147					90°, J, N, No, No, PI, R @ 146.0-146.8'	
							148					0°, B, N, No, No, PI, R @ 146.8', 146.9', 147.0'	
							149					90°, J, N, No, No, PI, R @ 147.1-147.6'	
PQ	27	5.0	3.5	0.0	70	0	149					40°, J, N, No, No, PI, R @ 147.4', 147.7'	
							150					0°, B, N, No, No, PI, R @ 147.7'	
												40°, J, N, No, No, PI, R @ 148.0', 148.2'	
												90°, J, N, No, No, PI, R @ 148.0-148.8'	
												0°, B, N, No, No, PI, R @ 148.8'	
												soft weathered zone @ 149.5-156.0'	

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# BORING LOG

BORING NO. TB-C5

SHEET 11 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB <i>FCG for</i> Bonnie/Grainger		CHECKED BY <i>EB for</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			151.0				150					
							151				0°,B,N,No,No,PI,SR @ 151.2',151.3'	
							152				0°,B,N,No,No,PI,SR @ 151.6'	
							153				0°,B,N,No,No,PI,SR @ 152.1',152.4',152.6'	
PQ	28	5.0	4.9	1.7	98	34	153				LIMESTONE; vuggy; clayey; (Salina Group - Unit F).	
							154				CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F).	
							155				LIMESTONE; vuggy; clayey; (Salina Group - Unit F). 0°,B,N,No,No,PI,SR @ 153.6',154.1'	
							156				CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F). 0°,B,N,No,No,PI,SR @ 154.5'	Core box #14 starts @ 156.0'
							157				LIMESTONE; vuggy; clayey; (Salina Group - Unit F).	
							158				CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/layers or seams of vuggy limestone; (Salina Group - Unit F). 0°,B,N,No,No,PI,SR @ 156.2',156.7',157.1',157.5' vuggy clayey limestone seams @ 156.2-156.6',157.0-157.3'	
PQ	29	5.0	4.8	1.8	96	36	158				CLAYSTONE; calcareous; dark gray; fresh; moderately strong; moderately hard; medium bedded; (Salina Group - Unit F). vuggy clayey limestone seams @ 158.1-158.2',159.1-159.3'	
							160				contorted bedding @ 158.5-159.1'	Discrete sample 14A taken from PQ29 @ 160.3-161.0'
							161				0°,B,N,No,No,PI,SR @ 161.1'	
							162				0°,B,N,No,No,PI,SR @ 161.5'	
							163				0°,B,N,No,No,PI,SR @ 162.0'	
PQ	30	5.0	5.0	2.8	100	56	163				BRECCIA; well indurated; dark gray; matrix of claystone & dolomite; micritic w/clasts of angular to rounded light brownish gray & gray claystone & micritic dolomite; (Salina Group - Unit F).	
							164					Core box #15 starts @ 164.6'
							165					

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**BORING LOG**

BORING NO. TB-C5

SHEET 12 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB Bonnie/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY TB Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	31	5.0	5.0	1.4	100	28	165		165				
			166.0				166		415			contorted bedding @ 166.2-168.4'	
							167		414				
							168		413				
							168.4						
							169		412			DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).	
							170		411			30°, J,W,Ca,Fi,Ir @ 168.6' 10°, J,N,No,No,PI,R @ 168.8', 168.9', 169.4' 90°, J,N,No,No,PI,R @ 168.8-169.6', 169.6-170.3' 60°, J,N,No,No,PI,R @ 170.0'	
							171		410				
			171.0				171						
							172		409			BRECCIA; indurated; (Salina Group - Unit F).	
							173		408			DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).	
PQ	32	5.0	5.0	1.5	100	30	173						
							174		407			BRECCIA; indurated; (Salina Group - Unit F).	
							174.0						Core box #16 starts @ 174.1'.
							175		406			DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).	
							176		405			highly fractured w/closely spaced joints @ 175.5-176.9'	
			176.0				176						
							177		404			BRECCIA; gray; matrix of claystone & dolomite; w/ sand to gravel size clasts (angular); cemented w/ calcite; fresh; moderately strong; low hardness; w/ zones of sand-size fragments; (Salina Group - Unit F).	
							178		403				
PQ	33	5.0	5.0	1.0	100	20	178						
							179		402				Discrete sample 16A taken from 178.7-179.3'.
							180		401				

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# BORING LOG

BORING NO. TB-C5

SHEET 13 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			181.0				181					30°,J,W,No,No,PI,VR @ 181.7',184.1'	
PQ	34	5.0	5.0	0.0	100	0	182					BRECCIA; clasts of indurated, light brownish gray, sand to cobble size, crystalline; micritic dolomite & soft light gray clay zones; (Salina Group - Unit F).	Soft drilling @ 182.0-184.0'
							183						Core box #17 starts @ 183.5'.
			186.0				186						
PQ	35	5.0	5.0	0.0	100	0	187					BRECCIA; gray calcareous clay matrix w/light brownish gray & gray clasts; some clasts micritic dolomite; cemented; moderately hard; w/some limestone zones; (Salina Group - Unit F).	
							188					highly fractured, some soft clay @ 187.2-188.0'	
							189					60°,J,W,Cl,Fi,PI @ 188.2'	
							190					limestone zones @ 188.8-189.2'; 190.5-190.7'	
							191					60°,J,W,Cl,Fi,PI @ 188.9'	
			191.0				191					soft zone @ 189.7-191.0'	
							192						Water level @ 9.9' prior to drilling on 07/13/07.
PQ	36	5.0	2.5	0.0	50	0	193						
							194						Soft drilling @ 194.0-196.0'.
							195						

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# BORING LOG

BORING NO. TB-C5

SHEET 14 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY Bonnie/Grainder <i>TSB</i>	CHECKED BY Dogbey/Bonnie <i>TSB</i>	APPROVED BY Meyer <i>EM</i>
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SAMPLING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER						
CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER						
		195					
		196.0		385		BRECCIA; claystone fragments in claystone matrix; gray; fresh; weak; moderately hard; less brecciation with depth; (Salina Group - Unit F).	Core box #18 starts @ 196.0'.
				384			
				383		60° soft seams w/clay @ 196.1', 196.9'	
PQ	37	5.0	5.0	1.5	100	30	
				382			
				381		LIMESTONE; argillaceous; very fine grained; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
				380		30° B, VN, No, No, Fi, SR (weathered) @ 199.2-199.4'	
		201.0		379		LIMESTONE; crystalline; dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F).	
				378		30° weathered zones @ 200.0-200.2', 200.6-200.7' solutioned, weathered & pitted @ 201.4-203.0'	
				377		30° weathered zones @ 202.7-203.0'	
PQ	38	5.0	4.5	1.5	90	30	
				376		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
				375		SHALE; gray; (Salina Group - Unit F).	
				374		BRECCIA; cemented; gray; calcareous claystone matrix w/claystone clasts; slightly weathered; moderately strong; moderately hard; w/soft clay seams; (Salina Group - Unit F).	
		206.0		373		60°, J, W, No, No, Ir, VR @ 204.5', 206.0'	Core box #19 starts @ 206.0'.
				372			
PQ	39	5.0	3.5	0.5	70	10	
				371		LIMESTONE; crystalline; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
				370		0°, B, solutioned & weathered @ 208.9'	

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# BORING LOG

BORING NO. TB-C5

SHEET 15 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY <i>7/3</i> Bonnie/Grainger		CHECKED BY <i>Em</i> Dogbey/Bonnie <i>7/3</i>	APPROVED BY <i>Em</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							210					0°,B,solutioned & weathered @ 209.3',209.5',209.6', 209.7', 210.0'	
			211.0				211					BRECCIA; cemented; gray; crystalline limestone matrix; calcareous claystone & limestone clasts; w/ soft seams; (Salina Group - Unit F).	
PQ	40	5.0	4.5	2.5	90	50	213					DOLOMITE; crystalline; grayish brown; micritic; slightly weathered; moderately strong; moderately hard; medium bedded; w/layers of crystalline vuggy limestone & fossils; (Salina Group - Unit F).	
							214					0°,B,solutioned & weathered @ 213.0',213.2',213.4' 90°,J,T,Ca,Fi,Ir @ 213.7-216.3'	
							215					60°,J,T,Ca,Fi,PI @ 214.9',215.0'	
							216					0°,B,solutioned & weathered @ 215.3'	
			216.0				216					Core box #20 starts @ 216.0'	
							217					limestone layer @ 216.6-217.3',217.5-217.8'	
							218					10°,B,N,solutioned @ 216.8'	
							219					10°,B,N,solutioned @ 217.3',217.4'	
PQ	41	5.0	4.8	1.4	96	28	218					10°,B,N,solutioned @ 217.8'	
							219					limestone layer @ 218.0-218.3'	
							220					10°,B,N,solutioned @ 218.4',218.9'	
							221					20°,J,N,Ca,Fi,PI,R @ 218.4',218.5'	
							222					90°,J,N,Ca,Fi,PI,R @ 218.5-218.9'	
							223					LIMESTONE; dark gray; slightly weathered; moderately strong; hard; vuggy; (Salina Group - Unit F).	
							224					10°,B,N,solutioned @ 220.4'	
			221.0				221						
							222					solutioned clay-filled zones @ 221.9-222.2'	
							223					solutioned clay-filled zones @ 222.7-222.9'	
PQ	42	5.0	4.5	0.5	90	10	224					solutioned clay-filled zones @ 224.2-224.4'	
							225					solutioned clay-filled zones @ 224.7-225.5'	

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# BORING LOG

BORING NO. TB-C5

SHEET 16 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY TB <i>Bonnie/Granger</i>	CHECKED BY TB <i>Em for Dogbey/Bonnie</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
			226.0				225		355				
							226		354				Core box #21 starts @ 226.0'. Core loss @ 226.0-227.0'.
							227		353				
PQ	43	5.0	3.0	0.0	60	0	228		352				DOLOMITE; crystalline; light brownish gray; micritic; slightly weathered; weak; moderately hard; (Salina Group - Unit F). 70°, J, N, Ca, Fi, PI, R @ 226.5-227.2', 227.0-227.5' 0°, B, N, UK, PI, R @ 226.7', 227.0', 227.3', 227.6', 227.8'
							229		351				
							230		350				
			231.0				231		349				DOLOMITE; blocky; clayey; dark gray; micritic; highly weathered; very weak; friable; w/ layers of vuggy crystalline limestone & micritic dolomite; (Salina Group - Unit F). Core barrel jammed frequently @ 228.0-231.0'.
							232		348				
							233		347				limestone @ 231.2-232.7'
							234		346				0°, B (weathered) @ 232.0'
PQ	44	5.0	3.8	0.9	76	18	235		345				micritic dolomite @ 232.7-233.7' 30°, J, N, UK, Fi, PI, SR @ 233.1'
							236		344				highly fractured @ 233.7-236.0'
							237		343				
			236.0				238		342				vuggy limestone @ 236.5-236.9'
							239		341				micritic dolomite @ 237.2-237.5', 237.9-238.1'
PQ	45	5.0	3.5	1.0	70	20	240		340				90°, J, N, No, No, PI, R @ 238.3-239.7', 237.3'
									339				vuggy limestone @ 239.2-239.3', 239.7-239.9'
									338				50°, J, N, No, No, Ir, R @ 239.5'
									337				Core box #22 starts @ 239.7'.

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# BORING LOG

BORING NO. TB-C5

SHEET 17 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY Bonnie/Granger	CHECKED BY Dogbey/Bonnie TB	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							240					50°,J,N,No,No,Ir,R @ 240.5'	
							241					0°,B,No,No,PI (weathered) @ 241.4'	
			241.0				242					<b>BRECCIA</b> ; well indurated; gray; calcareous claystone matrix w/claystone clasts; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).	
							243					0°,B,No,No,PI (weathered) @ 241.6',242.0'	
PQ	46	5.0	4.8	2.0	96	40	244					<b>LIMESTONE</b> ; dark gray; vuggy; slightly weathered; strong; hard; (Salina Group - Unit F).	
							245					solutioned @ 244.7-245.0' 20°,J,solutioned @ 245.5'	
							246					<b>DOLOMITE</b> ; light brownish gray; fresh; very strong; very hard; (Salina Group - Unit E).	
			246.0				247					<b>DOLOMITE &amp; LIMESTONE</b> ; interbedded; gray; slightly weathered; strong; hard; (Salina Group - Unit E).	
							248					0°,B,W,No,No,PI (weathered) @ 246.1',246.5',246.6'	
PQ	47	5.0	5.0	1.9	100	38	249					<b>DOLOMITE</b> ; crystalline; very pale brown; slightly weathered; strong; hard; w/fossils & widely spaced stylolites; (Salina Group - Unit E).	
							250					80°,J,N,Ca,Fi,PI,R @ 247.4-247.9' 0°,B,N,No,No,PI (weathered) @ 247.7',247.9',248.2',248.7',248.9'	Core box #23 starts @ 248.9'
							251					fractured along bedding @ 249.1-249.2' 0°,B,N,No,No,PI (weathered) @ 249.9',250.2',250.3'	
			251.0				252					0°,B,N,No,No,PI (weathered) @ 250.7' 0°,B,W,No,No,PI @ 251.1',251.2',251.3',251.4'	
							253					10°,J,N,Ca,Fi,PI @ 252.1',252.2',252.3',252.4'	
PQ	48	5.0	5.0	0.9	96	18	254					0°,B,W,No,No,PI @ 253.0',253.3' 60°,J,N,No,PI,R @ 253.0-253.5',253.3-254.5'	
							255					90°,J,T,No,PI,R @ 254.5-256.0'	

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY TB. G. Grainger	CHECKED BY S. Dogbey/Bonnie	APPROVED BY E. Meyer
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							255				0°, B, W, No, No, PI @ 254.9'	
							325				0°, B, W, No, No, PI @ 255.4'	
			256.0				256				soft zones along bedding @ 256.0-256.2', 256.6-256.9'	Core box #24 starts @ 256.0' Core loss @ 256.0'-259.2'. Water level @ 11.9' prior to drilling on 07/14/07.
							324				90°, J, VN, Ca, Fi, St @ 256.2-260.0'	
							257				soft zones along bedding @ 257.1-257.6'	
PQ	49	5.0	3.4	1.2	68	24	258				soft zones along bedding @ 257.9-258.2'	
							322				soft zones along bedding @ 258.5-258.7'	
							259				20°, J, W, No, No, PI @ 258.7', 259.2', 259.5'	
							321				0°, B, W, No, PI, SR @ 259.5', 259.7', 260.5'	
							260					
							320					
			261.0				261					Core loss @ 261.0-263.7'.
							262					
							319					
							263					
PQ	50	5.0	1.9	0.0	38	0.0	263					
							317					
							264				DOLOMITE; banded; gray; micritic; fresh; moderately strong; moderately hard; thin bedded; (Salina Group - Unit E).	
							316				90°, J, T, No, No, PI, R @ 263.7-265.6'	
							265				0°, B, N, No, No, PI, R @ 263.9', 264.1'	
							315				highly fractured along bedding @ 264.2-265.1'	
							266				0°, B, N, No, No, PI, R @ 265.6'	
							314				highly fractured along bedding @ 266.0-267.4'	Core barrel jammed @ 266.0'.
			266.0				266					
							314					
							267					
							313				90°, J, N, No, No, PI, R @ 267.4-268.2', 270.6-270.9'	
							268				0°, B, N, No, No, PI, SR (closely banded) @ 267.5-267.9', 268.2-268.4', 268.8-268.9'	
							312				pitted @ 268.2-268.5', 270.2-271.3'	
PQ	51	5.0	4.0	1.6	80	32	268					
							269					
							312					
							270				0°, B, N, No, PI, SR (closely banded) @ 269.3-269.4', 269.6-269.7'	
							311					

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# BORING LOG

BORING NO. TB-C5

SHEET 19 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB <i>666 Por</i> Bonnie/Grainger		CHECKED BY <i>2 TB</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
							270					60°, J, N, No, No, PI, R @ 270.5'	
			271.0				271					ANHYDRITE; white to light gray; fresh; moderately strong; low hardness; interbedded w/DOLomite thin bands of light brownish gray, micritic; (Salina Group - Unit E).	Core box #25 starts @ 271.0'.
PQ	52	5.0	4.8	4.3	96	86	272					DOLomite; crystalline; light brownish gray; micritic; fresh; very strong; hard; thick bedded; w/stylolites; fossiliferous; (Salina Group - Unit E).	
							273					DOLomite; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).	Pulled up 10' to switch out 5' rods. Hole blocked @ 273.0'; drilled out blockage.
			276.0				274					DOLomite; light brownish gray; w/anhydrite seams; (Salina Group - Unit E).	
PQ	53	3.0	2.8	2.8	93	93	275					DOLomite; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).	
							276					0°, B, anhydrite, Fi, WA, S @ 278.3-278.7'	Core barrel jammed @ 279.0'.
PQ	54	2.0	2.0	2.0	100	100	277					DOLomite; pale yellowish brown; (Salina Group - Unit E).	
			279.0				278					0°, J, VN, anhydrite, Fi, WA @ 281.3'	Core box #26 starts @ 281.0'.
							279					DOLomite; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/anhydrite pockets along convoluted bedding & stylolites; (Salina Group - Unit E).	
			281.0				280					0°, J, VN, anhydrite, Fi, WA @ 281.5', 281.7'	
PQ	55	5.0	5.0	4.4	100	88	281					0°, J, VN, anhydrite, Fi, WA @ 282.3', 283.0', 283.3', 283.5'	
							282					20°, J, VN, anhydrite, Fi, PI @ 283.4'	
							283					DOLomite; argillaceous; gray; micritic; fresh; very strong; hard; (Salina Group - Unit E).	
							284					0°, J, VN, anhydrite, Fi, WA @ 283.6', 284.3', 285.0'	
							285						

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# BORING LOG

BORING NO. TB-C5

SHEET 20 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB <i>COB</i> Bonnie/Grainger		CHECKED BY TB <i>DM</i> Dogbey/Bonnie	APPROVED BY <i>DM</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							285						
			286.0				286					70°,J,N,anhydrite,Fi,Ir @ 286.4-287.4'	
							287					black shale @ 287.4-287.6'	
							288					0°,J,W,anhydrite,Fi,PI @ 287.5'	
PQ	56	5.0	5.0	4.9	100	98	288					DOLOMITE; argillaceous; light brownish gray; micritic; fresh; very strong; hard; fossiliferous; wavy bedding & w/stylolites; (Salina Group - Unit E). B,MW,anhydrite,Fi,WA @ 288.2', 288.4', 288.6'	
							289						
							290						
			291.0				291					90°,J,VN,anhydrite,Fi,Ir @ 290.8-291.3'	
							291					70°,J,N,anhydrite,Fi,Ir @ 290.9-291.6'	Core box #27 starts @ 291.0'.
							292						
							293						
PQ	57	5.0	5.0	5.4	100	100	293						
							294						
							295						
							296						
			296.0				296						
							297						
							298						
							299						
PQ	58	5.0	5.0	5.0	100	100	299					90°,J,T,No,No,Ir @ 297.9-299.2'	
							300						
							300						

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CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY Bonnie/Grainger	CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	RQD						
								300					Core box #28 starts @ 300.0'.
			301.0					301				90°,J,T,H,Fi,Ir @ 301.2-301.5'	
								302				20°,J,T,H,Fi,PI @ 301.7'	
PQ	59	5.0	5.0	5.0	100	100		303					
								304				DOLOMITE; crystalline; dark grayish brown; micritic; fresh; very strong; very hard; massive w/argillaceous bands; convoluted bedding; anhydrite-filled pits & stylolites; (Salina Group - Unit E).	
								305					
			306.0					306				DOLOMITE; grayish brown & gray; convoluted bands & areas; (Salina Group - Unit E).	
								307					
PQ	60	5.0	5.0	5.0	100	100		308				DOLOMITE; argillaceous; gray; interbedded; micritic; fresh; strong; hard; banded w/black shaley seams; (Salina Group - Unit E).	
								309					
								310				DOLOMITE; gray & very dark gray; micritic; fresh; very strong; hard; convoluted bedding; massive; (Salina Group - Unit E).	Core box #29 starts @ 309.6'.
								311				fractured along bedding plane @ 311.0-311.2'	
			311.0					312				DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/shaley seams; (Salina Group - Unit E).	
								313				ANHYDRITE; white; micritic; fresh; weak; low hardness; interbedded w/hard; light brownish gray dolomite; (Salina Group - Unit E).	
PQ	61	5.0	5.0	4.9	100	98		314				DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; very strong; hard; (Salina Group - Unit E).	
								315				0°,B,N,anhydrite,Fi,PI @ 313.9', 315.6'	

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# BORING LOG

BORING NO. TB-C5

SHEET 22 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB <i>Bonnie/Grainger</i>		CHECKED BY <i>im for Dogbey/Bonnie TB</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
			316.0					315		265			
PQ	62	5.0	5.0	4.8	100	96		316		264		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/black shale bands; (Salina Group - Unit E). highly fractured along bedding @ 316.2-316.4'	
								317		263			
								318		262		ANHYDRITE; light gray to white; crystalline; fresh; weak; low hardness; w/convoluted bands & seams of light brownish gray dolomite; (Salina Group - Unit E). 30°,J,VN,No,No,St @ 318.4'	Core box #30 starts @ 318.2'
								319		261			
			321.0					320		260			
								321		259			
								322		258			
PQ	63	5.0	5.0	5.0	100	100		323		257		DOLOMITE; light brownish gray & dark gray interbedded sequence; micritic; fresh; very strong; hard; w/partings of anhydrite; (Salina Group - Unit E).	
								324		256		DOLOMITE; interbedded dark gray & light gray; fresh; strong; hard; w/thin bands of anhydrite; (Salina Group - Unit E). 0°,B,VN,anhydrite,Fi,WA @ 324.5', 325.8', 326.9'	
								325		255			
			326.0					326		254		gray soft clay seam @ 326.2-326.4'	
								327		253			
								328		252		DOLOMITE; light brownish gray & light gray; micritic; fresh; strong; hard; interbedded w/anhydrite & shale partings; bedding contorted; (Salina Group - Unit E). 30°,J,MW,anhydrite,Fi,PI @ 328.4', 328.5', 329.9'	Core box #31 starts @ 327.6'
PQ	64	5.0	4.9	4.8	98	96		329		251			
								330					

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# BORING LOG

BORING NO. TB-C5

SHEET 23 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

SAMPLING		LOGGED BY <i>7B</i> Bonnie/Grainger	CHECKED BY <i>in for</i> Dobey/Bonnie <i>7B</i>	APPROVED BY <i>sm</i> Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	65	5.0	5.0	5.0	100	100	330						
			331.0				331						
							332						
							333						
							334						
							335						
			336.0				336						
							337						
							338						
							339						
							340						
							341						
			341.0				342						
							343						
							344						
							345						

SHALE; dolomitic; black; platy; fresh; strong; hard; (Salina Group - Unit E).

DOLOMITE; light brownish gray; micritic; fresh; strong; hard interbedded w/ANHYDRITE; light gray; low hardness; massive; w/convoluted bedding black inclusions & partings; (Salina Group - Unit E)

0°, B, N, No, No, PI, SR @ 339.5'

CLAYSTONE; dolomitic; very dark gray; platy; strong; hard; w/anhydrite bands; (Salina Group - Unit C).  
10°, J, MW, anhydrite, Fi @ 339.8'

0°, B, N, anhydrite, Fi @ 340.2', 340.8', 340.9'

0°, B, MW, anhydrite, Fi, PI @ 341.9'

Core box #32 starts @ 336.7'.

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# BORING LOG

BORING NO. TB-C5

SHEET 24 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							345						
			346.0				346						Core box #33 starts @ 346.0'.
							347					0°,B,MW,anhydrite,Fi,PI @ 346.7'	
PQ	68	5.0	5.0	5.0	100	100	348					anhydrite bands @ 348.1-348.2'	
							349					0°,B,MW,anhydrite,Fi,PI @ 348.8' anhydrite bands @ 349.1-349.2', 349.9'	
							350						
							351						
			351.0				351						
							352					DOLOMITE; dark gray & black; micritic; fresh; very strong; hard; w/partings of olive black claystone & bands of anhydrite; (Salina Group - Unit C).	
							353					0°,B,MW,anhydrite,Fi,PI @ 352.4'	
PQ	69	5.0	4.8	4.7	96	94	354						
							355					CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C).	Core box #34 starts @ 354.8'.
							356						
			356.0				356						
							357					DOLOMITE; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 356.5'	Water level @ 25.1' prior to drilling on 07/10/07.
							358					CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 357.1', 357.6' 10°,J,MW,anhydrite,Fi,PI @ 357.4'	
PQ	70	5.0	5.0	5.0	100	100	359						
							360					DOLOMITE; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 359.4'	

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# BORING LOG

BORING NO. TB-C5

SHEET 25 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger <i>TB</i>		CHECKED BY Dogbey/Bonnie <i>TB</i>	APPROVED BY Meyer <i>fm</i>
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							360				0°, B, MW, anhydrite, Fi, PI @ 359.5', 360.6'	
							361				CLAYSTONE; very dark gray; fresh; very strong; moderately hard; massive; w/interbedded gray to light brownish gray layers & patches of micritic dolomite & seams of anhydrite; (Salina Group - Unit C).	
PQ	71	5.0	5.0	5.0	100	100	363				0°, B, MW, anhydrite, Fi, PI @ 363.6'	
							364				light brownish gray dolomite band @ 363.6-363.8'	
							365				20°, J, MW, anhydrite, Fi, PI @ 363.9'	
							366					Core box #35 starts @ 364.4'. PQ-71: Left 1.0' in hole, recovered by going back in hole. Resulted in full recovery.
							367				DOLOMITE; interbedded light brownish gray & dark gray; fresh; very strong; hard; w/partings of claystone & anhydrite seams; (Salina Group - Unit C).	
							368				0°, B, MW, anhydrite, Fi, PI @ 367.4'	
PQ	72	5.0	5.0	5.0	100	100	369				CLAYSTONE; very dark gray; fresh; very strong; hard; w/anhydrite bands; (Salina Group - Unit C).	
							370				grades very dark greenish black @ 370.0'	
							371				10°, J, MW, anhydrite, Fi, PI @ 370.2'	
							372				0°, B, MW, anhydrite, Fi, PI @ 370.4'	
							373				30°, J, N, anhydrite, Fi, WA @ 371.0'	
							374					Core box #36 starts @ 373.6'.
PQ	73	5.0	5.0	5.0	100	100	375				DOLOMITE; light brownish gray; micritic; fresh; strong; hard interbedded w/bands of light gray ANHYDRITE & bands of dark greenish gray claystone (Salina Group - Unit C).	
							376				anhydrite seams @ 372.0-372.4', 372.5-372.6'	
							377				0°, B, MW, anhydrite, Fi, PI @ 373.0'	
							378				anhydrite seams @ 373.6-373.7'	
							379				0°, B, MW, anhydrite, Fi, PI @ 374.0', 374.1'	
							380				0°, B, MW, anhydrite, Fi, PI @ 374.8'	

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# BORING LOG

BORING NO. TB-C5

SHEET 26 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	74	5.0	4.8	4.8	96	96	375		375				
			376.0				376		205			DOLOMITE; gray & light brownish gray; micritic; fresh; very strong; hard; interbedded w/bands & partings of greenish black claystone & anhydrite bands; (Salina Group - Unit C).	
							377		204				
							378		203			10° B, MW, anhydrite, Fi @ 377.5'	
							379		202			anhydrite seam @ 378.1-378.5'	
							380		201			10° B, MW, anhydrite, Fi @ 379.2'	
							381		200			anhydrite seam @ 379.3-379.4'	
							382		199			90° J, N, anhydrite, Fi, Ir @ 379.7-381.0'	
			381.0				382		199			grades pale yellowish brown @ 381.9'	
PQ	75	5.0	5.0	5.0	100	100	383		198			CLAYSTONE; dark gray; fresh; very strong; moderately hard; massive; w/anhydrite seams & pockets; (Salina Group - Unit C).	
							384		197			0° B, MW, anhydrite, Fi, PI @ 382.7', 383.2'	Core box #37 starts @ 383.0'
							385		196			0° B, MW, anhydrite, Fi, PI @ 383.9'	
							386		195				
			386.0				387		194				
							388		193				
PQ	76	5.0	4.9	4.7	98	94	389		192			40° J, N, anhydrite, Fi, PI @ 388.0'	
							390		191			anhydrite seams @ 389.3-390.4'	

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# BORING LOG

BORING NO. TB-C5

SHEET 27 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07
LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer	

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
			391.0				390						
PQ	77	5.0	5.0	5.0	100	100	391				contact @ 391.8' contorted		
							392				DOLOMITE; gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit C).		
							393				0°,B,MW,anhydrite,Fi,PI @ 392.8', 393.1' 90°,J,N,anhydrite,Fi,Ir @ 392.8-394.8'		Core box #38 starts @ 392.7'.
							394				0°,B,MW,anhydrite,Fi,PI @ 393.7'		
							395				DOLOMITE; gray; micritic; fresh; very strong; hard; banded w/very dark gray bands & partings; (Salina Group - Unit C).		
							396				0°,B,MW,anhydrite,Fi,PI @ 394.5'		
			396.0				396				0°,B,MW,anhydrite,Fi,PI @ 395.9'		
PQ	78	5.0	5.0	5.0	100	100	397				DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).		
							398						
							399						
							400						
							401						
			401.0				401						
							402				DOLOMITE; gray & light brownish gray, interbedded; micritic; fresh; very strong; hard; (Salina Group - Unit C).		
							403				0°-5°,B,MW,anhydrite,Fi,WA @ 401.6', 401.7'		Core box #39 starts @ 402.0'.
PQ	79	5.0	5.0	5.0	100	100	404				DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).		
							405						

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# BORING LOG

BORING NO. TB-C5

SHEET 28 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
			406.0				405					
							406					Water level @ 23.8' prior to drilling on 07/17/07.
							407				60°,J,T,No,No,PI @ 407.0'	
PQ	80	5.0	5.0	5.0	100	100	408				DOLOMITE; dark gray; micritic; fresh; very strong; hard; w/bands of black shaley dolomite & nodules of anhydrite; (Salina Group - Unit C).	
							409				80°,J,N,anhydrite,Fi,PI @ 409.2'	
							410					
			411.0				411				anhydrite seam @ 410.7-411.0'	Core box #40 starts @ 411.0'.
							412				DOLOMITE; interbedded; gray & black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; bedding convoluted; (Salina Group - Unit C).	
							413				0°,B,MW,anhydrite,Fi,WA @ 412.1', 412.2'	
PQ	81	5.0	5.0	5.0	100	100	414				85°,J,N,H,Ir @ 413.8-414.6'	
							415				vertical, narrow fracture @ top; widening toward middle; filled w/olive black matrix of claystone w/ angular clasts of light olive gray dolomite @ 414.7-419.6'	
			416.0				416				fracture filling matrix becomes anhydrite below 416.0'	
							417				CLAYSTONE; dolomitic; very dark gray; fresh; extremely strong; hard; (Salina Group - Unit C).	
							418				0°,B @ 417.2'	Ground core @ 417.2'.
							419				brecciated, well indurated @ 417.7-418.2'	
PQ	82	5.0	5.0	5.0	100	100	420				anhydrite nodules @ 418.3-420.3'	

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# BORING LOG

BORING NO. TB-C5

SHEET 29 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							420						Core box #41 starts @ 420.4'.
			421.0				421						
PQ	83	5.0	5.0	5.0	100	100	422					CLAYSTONE & DOLOMITE; core divided vertically by rock type along irregular divide; very dark gray claystone on one side & brownish yellow dolomite & anhydrite on other side; (Salina Group - Unit C). brecciated; well indurated @ 421.5-422.6' 0°,B,MW,anhydrite,Fi,PI @ 422.5', 422.7'	
							423						
							424						
							425						
							426						
PQ	84	5.0	5.0	5.0	100	100	427					DOLOMITE; yellowish red; micritic; fresh; very strong; hard; w/near vertical fracture filled w/very dark gray matrix & dolomite clasts; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 423.4', 424.2'	
							428						
							429						
							430						
							431						Core box #42 starts @ 429.2'.
			431.0				432						
							433						
							434						
PQ	85	5.0	4.7	4.7	94	94	435					DOLOMITE; interbedded sequence grading downward from pale yellowish brown to olive black; micritic; fresh; very strong; hard; convoluted; (Salina Group - Unit B). 0°,B,MW,anhydrite,Fi,PI @ 434.4'	PQ-85: Initially no recovery. Went back into recover 4.5' of core. Remaining 0.2' recovered from run PQ-86.

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# BORING LOG

BORING NO. TB-C5

SHEET 30 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD						
							435				DOLOMITE; mottled light gray & dark gray; micritic; fresh; very strong; hard; (Salina Group - Unit B).	
			436.0				436				DOLOMITE; interbedded gray & black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit B). 0°, B, MW, anhydrite, Fi, PI @ 436.2' 30°, J, MW, anhydrite, Fi, PI @ 436.8'	
PQ	86	5.0	5.0	5.0	100	100	438				30°, J, MW, anhydrite, Fi, PI @ 437.9'	
							439				ANHYDRITE with DOLOMITE; white & dark gray; crystalline; fresh; strong; low hardness; banded; convoluted; (Salina Group - Unit B). 30°, J, MW, anhydrite, Fi, PI @ 439.0'	Core box #43 starts @ 439.4'.
			441.0				441				DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Salina Group - Unit B).	Water level @ 23.0' prior to drilling on 07/18/07.
							442				DOLOMITE; interbedded gray, light brownish gray & olive black; micritic; fresh; very strong; hard; banded; w/anhydrite seams & nodules; (Salina Group - Unit B). 0°, B, MW, anhydrite, Fi, PI @ 441.7'	
PQ	87	5.0	5.0	4.9	100	98	443				ANHYDRITE & DOLOMITE; dark gray & light brownish gray; micritic; fresh; strong; intermingled; (Salina Group - Unit B).	
							444					
			446.0				446				DOLOMITE; crystalline; light brownish gray & olive black; banded; micritic; fresh; very strong; hard; w/ anhydrite nodules; (Salina Group - Unit B).	
							447					
							448				DOLOMITE & ANHYDRITE; light brownish gray & dark gray; micritic; fresh; very strong; hard; w/ occasional olive black partings; (Salina Group - Unit B).	Core box #44 starts @ 448.3'.
PQ	88	5.0	5.0	5.0	100	100	449					
							450					

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# BORING LOG

BORING NO. TB-C5

SHEET 31 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8'	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY Bonnie/Grainger		CHECKED BY Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							450						
			451.0				451					DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; banded w/partings & bands of very dark gray claystone; (Salina Group - Unit B).	
							452						
							453					convoluted bedding @ 452.8-453.2'	
PQ	89	5.0	5.0	5.0	100	100	454					CLAYSTONE; dolomitic; olive black; fresh; very strong; moderately hard; banded; (Salina Group - Unit B).	
							455					DOLOMITE; light brownish gray & black, mottled; fresh; very strong; hard; (Salina Group - Unit B). 0°, B, N, anhydrite, Fi, PI @ 454.3'	
			456.0				456					DOLOMITE; crystalline; light brownish gray & light gray; micritic; fresh; very strong; hard; banded w/dark gray anhydrite interbeds; (Salina Group - Unit B).	
							457						
PQ	90	5.0	5.0	5.0	100	100	458						Core box #45 starts @ 457.4'.
							459						
							460						
			461.0				461					DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; banded w/partings & bands of dark gray claystone; (Salina Group - Unit B).	
							462					70°, J, T, H, No, No, PI @ 461.7-462.2'	
							463					0°, B, VN, No, No, WA, R @ 462.2'	
PQ	91	5.0	5.0	5.0	100	100	464					convoluted bedding @ 463.0-464.4'	
							465					0°, B, VN, No, No, WA, R @ 463.4', 463.5'	
							466					DOLOMITE; crystalline; light brownish gray; fresh; very strong; hard; interbedded w/very dark gray shale partings; (Salina Group - Unit B).	

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# BORING LOG

BORING NO. TB-C5

SHEET 32 OF 32

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6677.7'	GROUND ELEVATION (DATUM) E 4592.8' 580.8 ft (NAVD 88)	TOTAL DEPTH 471.1 (feet)
SURFACE CONDITIONS Parking area near propane tanks		COORDINATE SYSTEM Plant	DATE START 06/21/07	DATE FINISHED 07/18/07

LOGGED BY TB Bonnie/Grainger		CHECKED BY TB Dogbey/Bonnie	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	92	5.0	5.0	5.0	100	100	465		115		0°,B,MW,anhydrite,Fi,PI @ 464.4'	Core box #46 starts @ 466.0'	
			466.0				466		114		DOLOMITE; argillaceous; light brownish gray & gray; micritic; fresh; strong; hard; banded w/stylolites; (Salina Group - Unit B). 0°,B,MW,anhydrite,Fi,PI @ 465.4'		
							467		113				
							468		112		ANHYDRITE; crystalline; dark gray & dark grayish brown; micritic; fresh; strong; low hardness; w/ convoluted deposits of brown dolomite; (Salina Group - Unit B).		
							469		111				
							470		110				
							471		109			Bottom of boring @ 471.1'. Water level not recorded at completion of drilling. Backfilled w/ bentonite chips on 09/15/07.	
							472		108				
							473		107				
							474		106				
							475		105				
							476		104				
							477		103				
							478		102				
							479		101				
							480						



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# BORING LOG

BORING NO. TB-C6

SHEET 1 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4615.9'	TOTAL DEPTH 51.3 (feet)
SURFACE CONDITIONS Gravel parking lot west side of fitness building		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY TB EA TB Mass/Ang/Bonnie	CHECKED BY TB Dogbey/Mass	APPROVED BY EM Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								
								0				Well graded GRAVEL with Cobbles (GW) - About 80% fine to coarse, angular to subangular, hard gravel w/max. size 3"; about 10% angular, hard cobbles w/max. size 5"; about 10% fine to coarse, angular to subangular, hard sand; grayish brown; dry to moist; strong reaction w/HCl; homogeneous; (Fill).	Boring advanced w/vacuum excavation.	
			6.0					6				Silty SAND (SM) - About 50% fine to coarse, angular, hard sand; about 50% low plasticity, low toughness, rapid dilatancy, low dry strength fines; gray; moist to wet; weak reaction w/HCl; homogeneous; (Fill). clayey gravel parting, black, weak reaction w/HCl @ 6.0'	Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample S01A collected from S1.	
S	1					NR		8						
			10.0					10						
S	2					NR		11						
			12.0					12						
TW	2					0		14						Set nominal 6" temporary steel casing to 12.0'. Water level @ 9.2' prior to drilling on 07/25/07 w/ borehole open to 12.5'. Below 12.5' continued

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# BORING LOG

BORING NO. TB-C6

SHEET 2 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4615.9'	TOTAL DEPTH 51.3 (feet)
SURFACE CONDITIONS Gravel parking lot west side of fitness building		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY TB by ECA TB Mass/And/Bonnie	CHECKED BY Dogbey/Mass	APPROVED BY Meyer
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SAMPLING		CORING		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES							3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE SIZE
S	3			15.0		565		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; dark greenish gray; soft; moist; (Lacustrine Deposit).	w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. TW-2: tube bent. Lost fluid circulation @ 15.0'. Below 15.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. PP = 1.5 TSF @ 15.0'. Discrete sample S3A collected @ 16.0-16.5'. Discrete sample S3B collected @ 17.5-18.0'. PP = 4.5 TSF @ 17.5'.				
TW	4			19.0		561		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; hard; moist; trace pieces of subrounded, coarse gravel w/ max. size 1/4", fractured w/2 hammer blows; (Glacial Till).	Hole open to 19.0'. Set nominal 6" temporary steel casing to 18.5'. Below 19.0' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer. PP > 4.5 TSF @ 21.0'. PP > 4.5 TSF @ 25.0'.				
SPT	5	11	30	33	63	558		Lean CLAY with Sand (CL) - About 75% medium plasticity, medium toughness, no dilatancy fines; about 15% fine to coarse, subrounded to subangular sand; about 10% fine to coarse, subrounded to subangular gravel w/max. size 1/2", fractured w/2 hammer blows; sand seams; dark gray; hard; moist; (Glacial Till).					
SPT	6	12	14	12	26	555		grades w/gravel w/max. size 1/2" @ 25.5'					
SPT	7	15	24	17	41	553		Clayey GRAVEL (GC) - About 75% fine to coarse, subangular to subrounded, hard gravel w/max. size 1 1/2"; about 25% medium plasticity, medium toughness, slow dilatancy fines; clay seams; dark gray; dense; moist.					
						551		Poorly graded GRAVEL (GP) - About 85% fine to coarse, subrounded to subangular, hard gravel w/max. size 1 1/2"; about 10% medium to coarse,					

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# BORING LOG

BORING NO. TB-C6

SHEET 3 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4615.9'	TOTAL DEPTH 51.3 (feet)
SURFACE CONDITIONS Gravel parking lot west side of fitness building		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY EPA TB Mass/Ang/Bonnie	CHECKED BY TB hr Dogbey/Mass	APPROVED BY Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	8	18	15	28	43	0.5	30		550		subrounded to subangular sand; about 5% fines; gray; dense; wet; (Weathered Bedrock).	
							31		549			
			32.0				32		548		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).	Below 32.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Hole open to 35.5'. Sonic core S-9 stored in box labeled S1.
S	9					3.5	33		547			
							34		546			
							35		545			
			35.5				36		544		DOLOMITE; argillaceous; dark grayish brown and light brownish gray, banded; pitted; micritic; fresh to slightly weathered; very strong; hard; w/dark gray, very fine grained, fresh, very strong, very hard shale partings; pits 0.04-0.08"; (Bass Islands Group). highly fractured @ 35.7-35.9', 37.4-37.6' very closely spaced stylolites @ 35.9-36.0' 90°, J,T,WA @ 36.0-37.0' 0.4" vug @ 36.7' shale partings @ 37.4'-37.6' 60°, J,No,No,PI,SR @ 37.6-37.7' 0°, B,No,No,PI,SR @ 38.0-38.2'	Set nominal 6" temporary steel casing to 35.5'. Core box #1 starts @ 35.5'. Below 35.5' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid. Water level @ 16.7' prior to drilling on 07/27/07.
HQ	1	3.0	3.0	1.9	100	63	37		543			
							38		542			
							39		541		shale partings - 0°, B,PI,SR @ 38.9', 39.1', 39.3', 39.6', 39.7', 40.0'	
			38.5				40		540		DOLOMITE; argillaceous; grayish brown & dark gray, banded; micritic; fresh; very strong; very hard; w/stylolites; (Bass Islands Group). very closely spaced stylolites @ 40.3-40.7' shale partings - 0° B,PI,SR @ 40.4', 40.6' 90° J,Ca,Pa,PI,SR @ 40.9-41.2' highly fractured @ 41.2-41.8' 80° J,Ca,Fi,PI,SR @ 41.8-42.2' 0° B,Ca,Pa,PI,SR @ 42.2', 42.9' 90° J,Ca,Fi,WA,SR @ 42.2-42.9' 80° J,Ca,PA,PI,SR @ 42.2-42.4'	
HQ	2	5.3	5.3	1.2	100	23	41		539			
							42		538			
							43		537			
							44		536		70° J,Ca/Cl,Pa,PI,SR @ 44.3-44.9'	
			43.8				45		536		gray, mottled; fine grained (crystalline); slightly	

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# BLACK & VEATCH

# BORING LOG

BORING NO. TB-C6

SHEET 4 OF 4

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6510.2'	GROUND ELEVATION (DATUM) E 4615.9'	TOTAL DEPTH 51.3 (feet)
SURFACE CONDITIONS Gravel parking lot west side of fitness building		COORDINATE SYSTEM Plant	DATE START 07/17/07	DATE FINISHED 07/27/07

SAMPLING		LOGGED BY TB EJA TB hr Mass/Ang/Bonnie	CHECKED BY 2 m TB Dogbey/Mass	APPROVED BY Meyer
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
HQ	3	5.0	5.0	1.9	100	38	45		535		weathered; strong @ 44.7-45.2' shale partings - 0°, B, PI, SR @ 45.2', 45.9', 46.2'		
							46		534		100°, J, No, No, PI, SR @ 46.2-46.8' 80°, J, No, No, PI, SR @ 46.6-46.9'		
							47		533		0°, J, No, No, PI, SR @ 47.2' 50°, J, No, No, PI, SR @ 47.5-47.7' 70°, J, No, No, PI, SR @ 47.7-48.0' 130°, J, No, No, PI, SR @ 47.9-48.2'		
			48.8				48		532				
HQ	4	2.5	2.5	0.9	100	36	49		531		DOLOMITE; light gray to gray; vuggy; micritic to very fine grained; fresh to slightly weathered; strong; very hard; (Bass Islands Group). 20°, J, No, No, PI, SR @ 48.1' very closely spaced stylolites @ 48.6' highly fractured @ 48.8-49.0'	Core box #2 starts @ 48.5'	
							50		530		DOLOMITE; argillaceous; gray, banded; micritic to very fine grained; fresh; strong; very hard; (Bass Islands Group). very closely spaced stylolites @ 49.3-49.5' 70°, J, No, No, Ir, SR @ 49.4-49.7' 90°, J, No, No, PI, SR @ 49.8-49.9', 49.8-50.2' 0°, B, No, No, PI, SR @ 49.9' 90°, J, T, No, No, PI, SR @ 50.5-51.3'		
							51		529				
							52		528				
							53		527				
							54		526				
							55		525				
							56		524				
							57		523				
							58		522				
							59		521				
							60					Bottom of boring @ 51.3'. Water level @ 9.9' at completion of the drilling. Backfilled w/ cement-bentonite grout to 39' bgs on 08/13/07. Continued w/bentonite chips to 1.5' bgs then gravel to surface on 08/22/07.	



# BLACK & VEATCH

# BORING LOG

BORING NO. WT-E1  
SHEET 1 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6223.8'	GROUND ELEVATION (DATUM) E 4982.6' 580.5 ft (NAVD 88)	TOTAL DEPTH 27.1 (feet)
SURFACE CONDITIONS Asphalt parking lot		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>Goofa</i> Grainger	CHECKED BY <i>sm</i> Dogbey/Bonnie	APPROVED BY <i>EM</i> Meyer
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SAMPLING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY						
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							0		580		ASPHALT	Boring advanced w/vacuum excavation.
							1		579		COBBLES with gravel - About 60% angular, cubical to elongated, hard cobbles w/max. size 12"; about 20% fine to coarse, angular, hard gravel; about 15% fine to coarse, angular, hard sand; about 5% fines; light gray; moist; strong reaction w/HCl; homogeneous; (Fill).	
							2		578			
							3		577			
							4		576			
							5		575			
			6.0				6		574			Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	1					2.0	8		573		Discrete sample SC1 collected from S1 @ 9.0-9.25	
							9		572			
							10		571		Discrete sample SC2 collected from S2 @ 13.0-13.25	
			10.0				11		570			
							12		569			
S	2					3.0	13		568			
							14		567			
							15		566			

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# BLACK & VEATCH

# BORING LOG

BORING NO. WT-E1  
SHEET 2 OF 2

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI		COORDINATES N 6223.8'	GROUND ELEVATION (DATUM) E 4982.6'	TOTAL DEPTH 27.1 (feet)
SURFACE CONDITIONS Asphalt parking lot		COORDINATE SYSTEM Plant	DATE START 08/22/07	DATE FINISHED 08/23/07

SAMPLING		LOGGED BY <i>Geo. Grainger</i>	CHECKED BY <i>Em. Dogbey/Bonnie TB</i>	APPROVED BY <i>Em Meyer</i>
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SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY							
CORING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	3	4	4	6	10	0.2	15		565				
							16		564				
							17		563				
							18		562				
TW	4					1.8	19		561				
							20		560				
TW	5					0.5	21		559				
							22		558				
							23		557				
SPT	6	7	11	50/5"	50+	NR	24		556				
							25		555				
							26		554				
							27		553				
							28		552				
							29		551				
							30						

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Below 15.5' continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid.

Lean CLAY (CL) - About 90% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 10% fine to medium sand; brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

PP > 4.5 TSF @ 20.0'.

Lean CLAY with Gravel (CL) - About 75% medium plasticity, medium toughness, no dilatancy, high dry strength fines; about 15% fine to coarse, angular, hard gravel; about 10% fine to coarse, angular to subrounded, hard sand; dark gray; moist; strong reaction w/HCl; homogeneous; (Glacial Till).

Drill chatter @ 23.0'.

Tricone refusal @ 27.1'.

Bottom of boring @ 27.1'. Water level @ 16.3' @ completion of drilling. Boring caved @ 24.0'. Boring backfilled w/bentonite chips on 08/23/07.



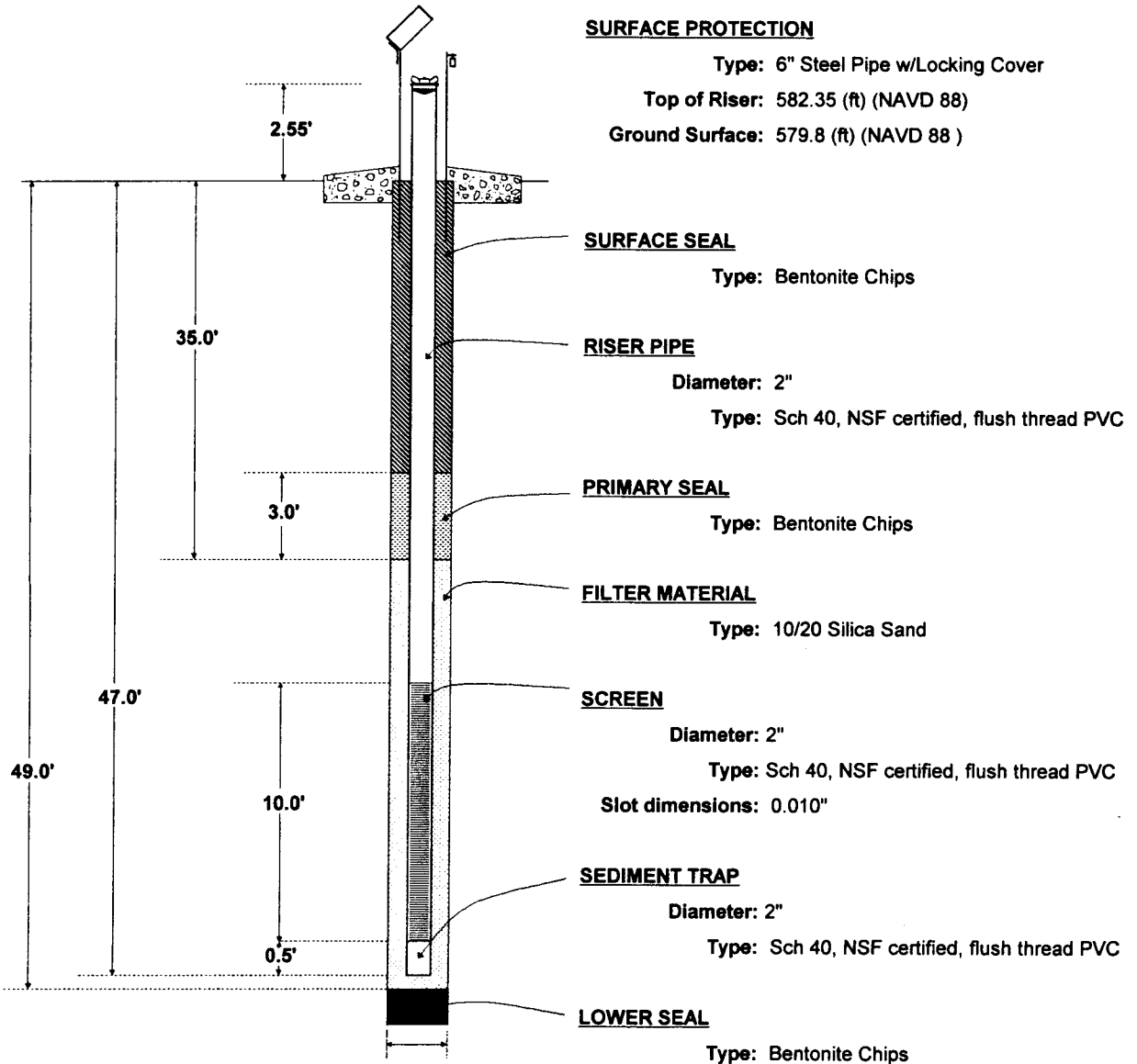
**BLACK & VEATCH**

**MONITORING WELL**

MONITORING WELL NO. MW-381D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5304.6' E 1843.0'	TOP OF RISER ELEVATION (DATUM) 582.35 ft (NAVD 88)		DATE 06/04/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Grainger <i>Em for</i>		CHECKED BY Meyer <i>Em</i>		APPROVED BY Meyer <i>Em</i>



**BORING DIAMETER**  
 DIAMETER: 8" 0-12', 4.8" 12'-49'

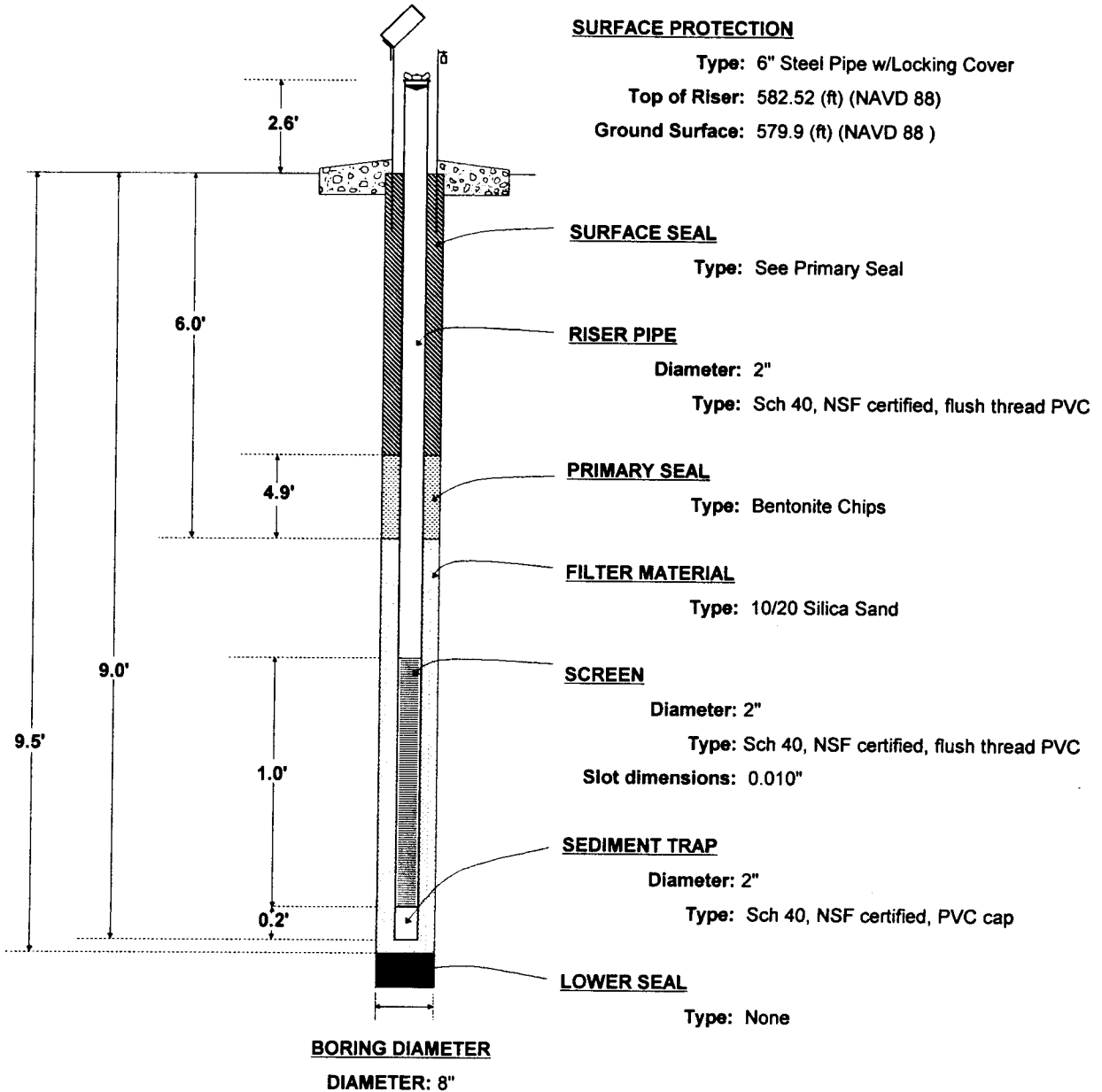
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 99.0'-49.0'; set screen & riser pipe w/stainless steel centralizers; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 80 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5306.7' E 1838.4'	TOP OF RISER ELEVATION (DATUM) 582.52 ft (NAVD 88)		DATE 05/29/07
STRATUM MONITORED Lean Clay				
INSPECTOR GEO Ohlmacher		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>

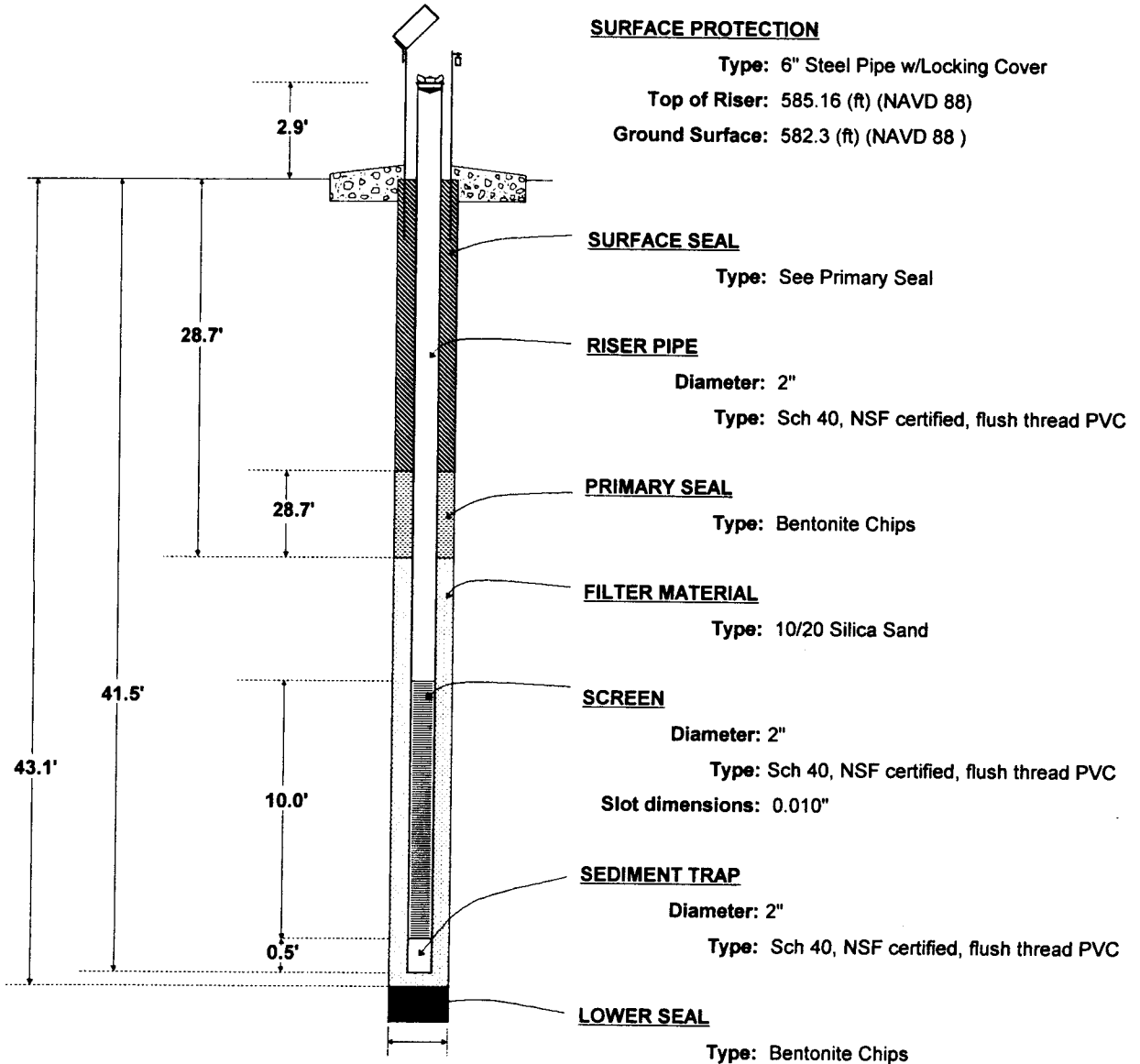


**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; no additional filter required; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 3 gallons of water - pumped dry.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5805.4' E 3435.7'	TOP OF RISER ELEVATION (DATUM) 585.16 ft (NAVD 88)		DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Ohlmacher	CHECKED BY Meyer	APPROVED BY Meyer		



**BORING DIAMETER**  
**DIAMETER: 6": 0-29', 4.8": 29'-43.1'**

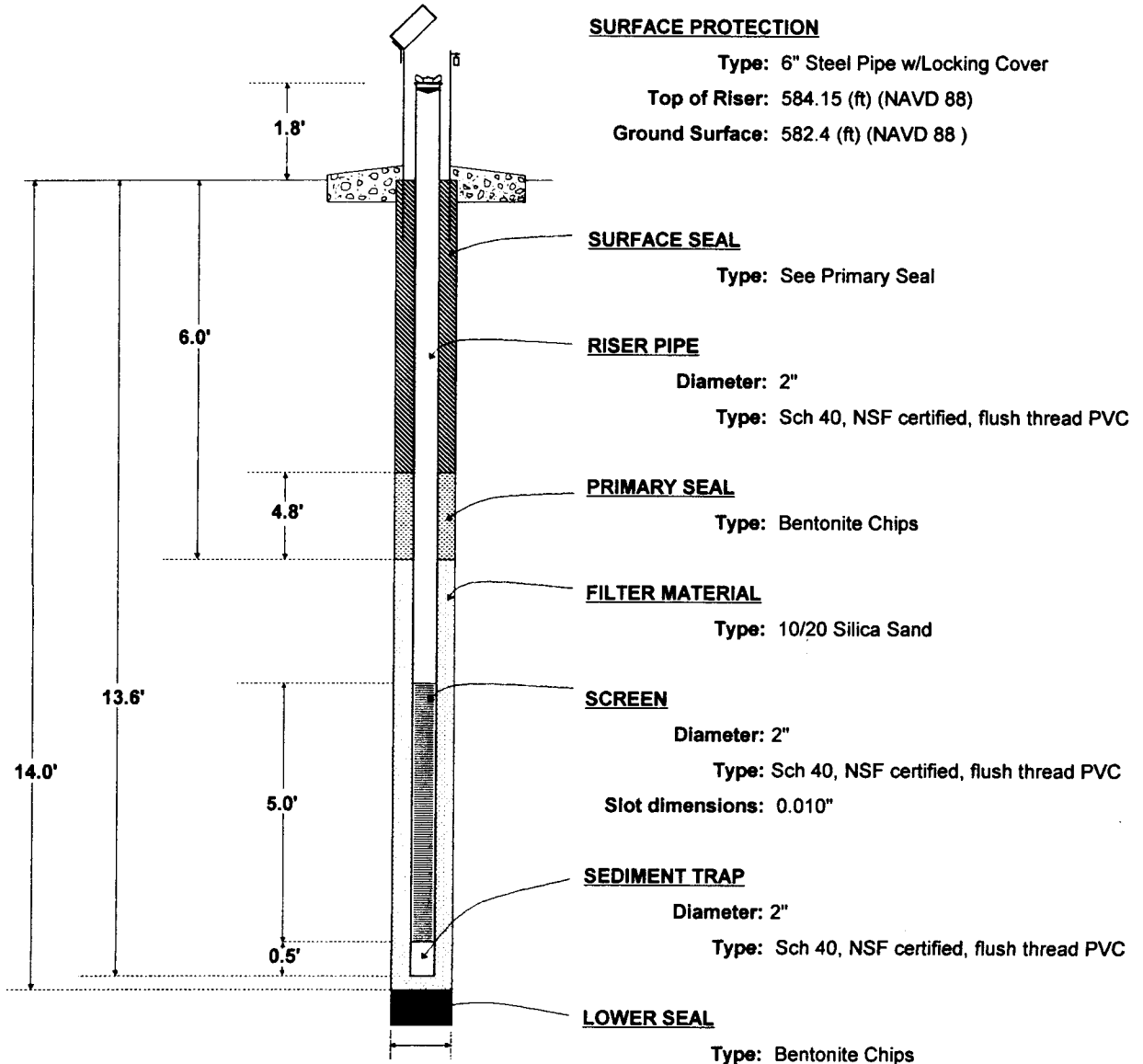
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-43.1'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by air lifting 250 gallons of water.



<b>CLIENT</b> Detroit Edison		<b>PROJECT</b> Fermi 3 COL Application		<b>PROJECT NO.</b> 147483
<b>PROJECT LOCATION</b> Monroe, MI	<b>COORDINATES</b> N 5809.1' E 3432.7'		<b>TOP OF RISER ELEVATION (DATUM)</b> 584.15 ft (NAVD 88)	<b>DATE</b> 05/16/07
<b>STRATUM MONITORED</b> Sandy Lean Clay, Lean Clay				
<b>INSPECTOR</b> Ohlmacher <i>EO</i>		<b>CHECKED BY</b> Meyer <i>EM</i>		<b>APPROVED BY</b> Meyer <i>EM</i>



- SURFACE PROTECTION**  
Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 584.15 (ft) (NAVD 88)  
Ground Surface: 582.4 (ft) (NAVD 88)
- SURFACE SEAL**  
Type: See Primary Seal
- RISER PIPE**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- PRIMARY SEAL**  
Type: Bentonite Chips
- FILTER MATERIAL**  
Type: 10/20 Silica Sand
- SCREEN**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"
- SEDIMENT TRAP**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- LOWER SEAL**  
Type: Bentonite Chips

**BORING DIAMETER**

**DIAMETER: 8"**

*\*Note-Diagram not shown to scale*

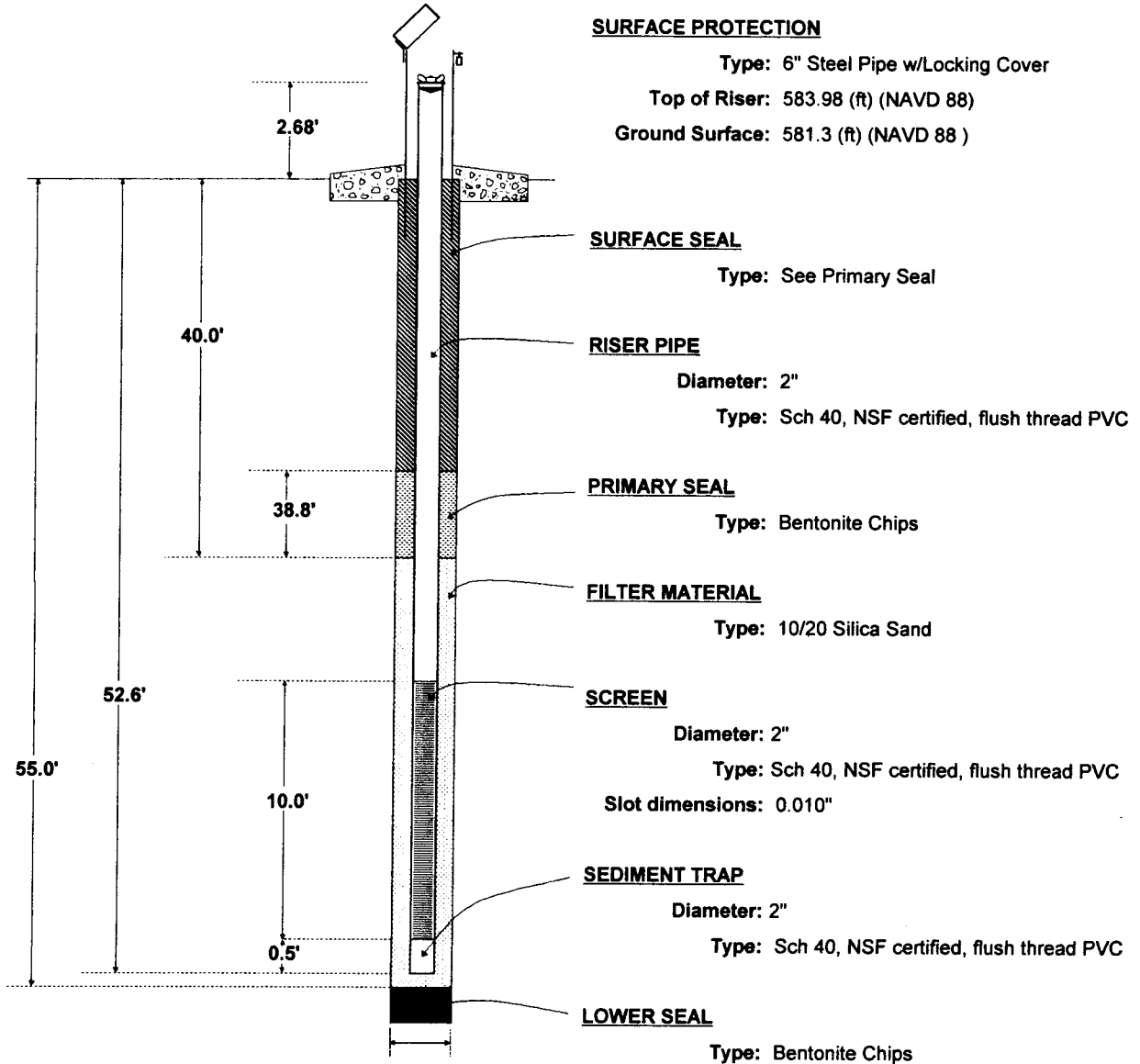
**INSTALLATION METHOD:** Boring drilled to completion; placed lower seal from 16.5'-14.0'; set screen & riser pipe; placed filter; no water so not surged; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 34.8 gallons of water over a multiple day period - pumped dry multiple times.





CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5537.6' E 4402.8'	TOP OF RISER ELEVATION (DATUM) 583.98 ft (NAVD 88)		DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>



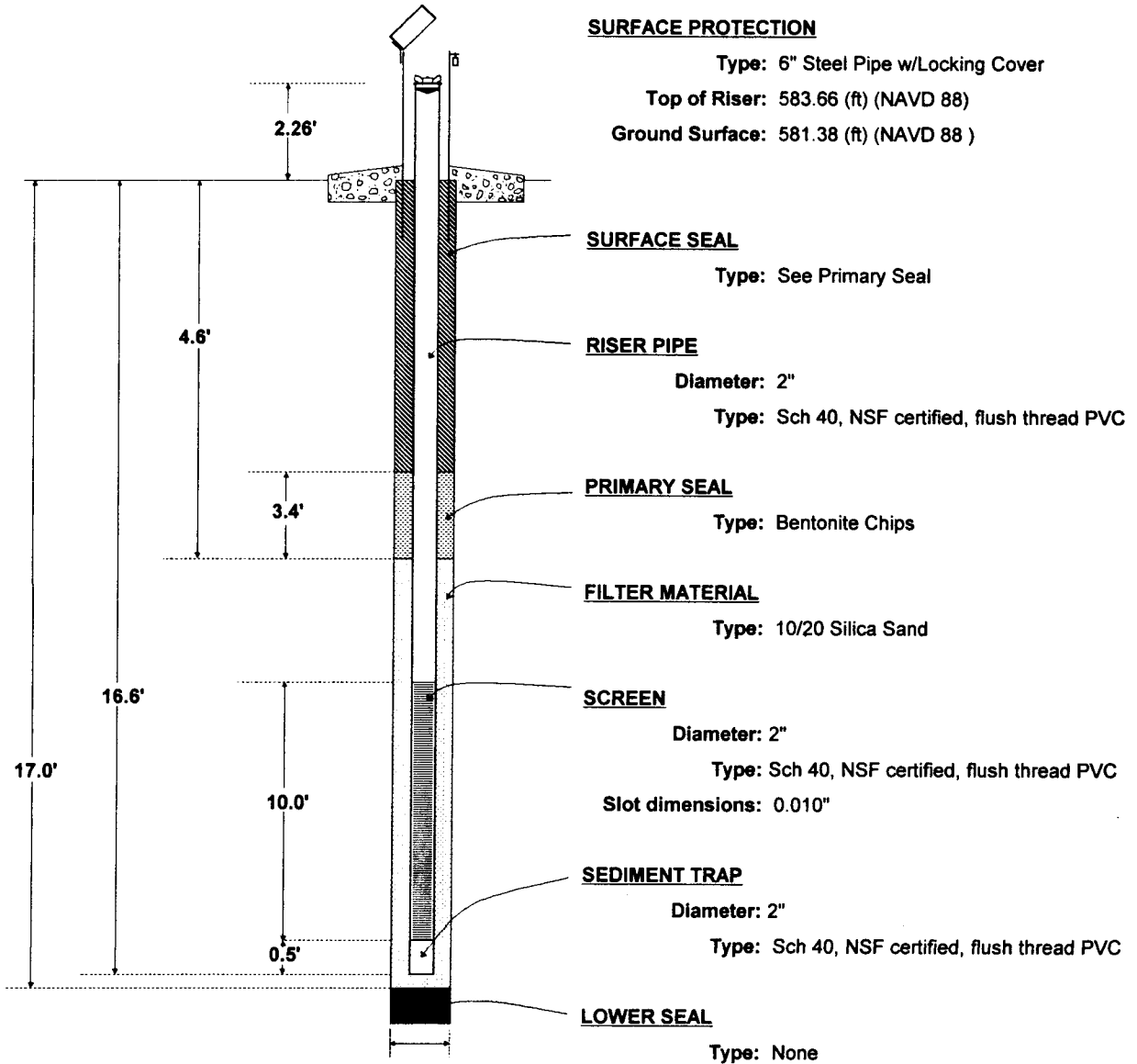
**BORING DIAMETER**  
**DIAMETER: 6" 0-33', 4.8" 33'-55.0'**  
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-55.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 110 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5532.6' E 4403.9'	TOP OF RISER ELEVATION (DATUM) 583.66 ft (NAVD 88)	DATE 05/18/07	
STRATUM MONITORED Fat Clay, Lean Clay				
INSPECTOR Ohlmacher <i>GLO</i>	CHECKED BY Meyer <i>SM</i>	APPROVED BY Meyer <i>SM</i>		



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
 Top of Riser: 583.66 (ft) (NAVD 88)  
 Ground Surface: 581.38 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
 Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
 Type: Sch 40, NSF certified, flush thread PVC  
 Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
 Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 8"**

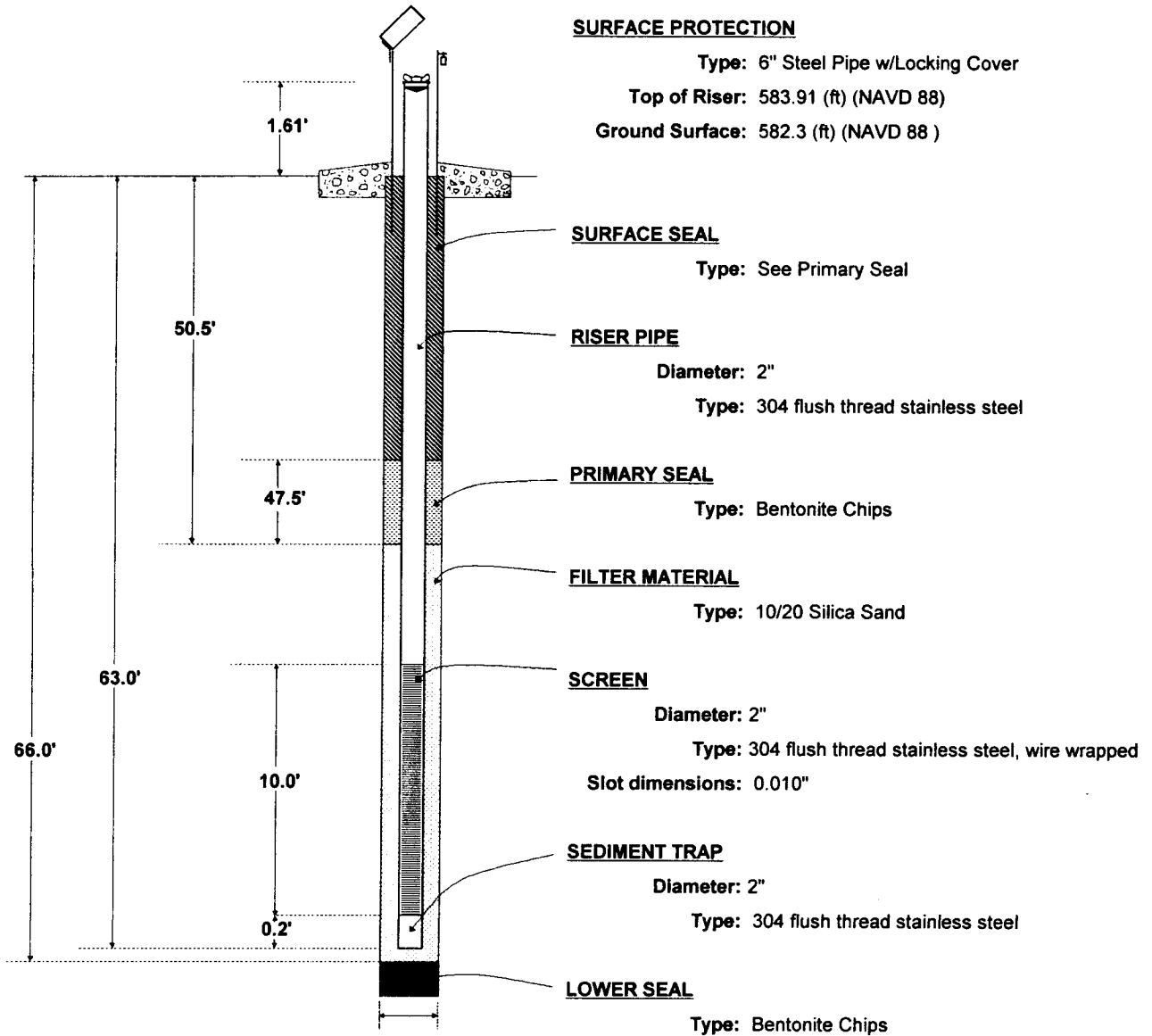
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 76.5 gallons of water over a multiple day period - pumped dry multiple times.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6336.7' E 5203.8'	TOP OF RISER ELEVATION (DATUM) 583.91 ft (NAVD 88)		DATE 06/06/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Duncan	CHECKED BY Meyer	APPROVED BY Meyer		



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 583.91 (ft) (NAVD 88)  
Ground Surface: 582.3 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
Type: 304 flush thread stainless steel

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
Type: 304 flush thread stainless steel, wire wrapped  
Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
Type: 304 flush thread stainless steel

**LOWER SEAL**

Type: Bentonite Chips

**BORING DIAMETER**

DIAMETER: 6": 0-28.5', 4.8": 28.5'-66.0'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; on 06/03/08 placed lower bentonite seal from 91.5'-66.0'; problems during installation required well to be pulled & redrilled to 66.0'; on 06/06/07 set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 455 gallons of water.



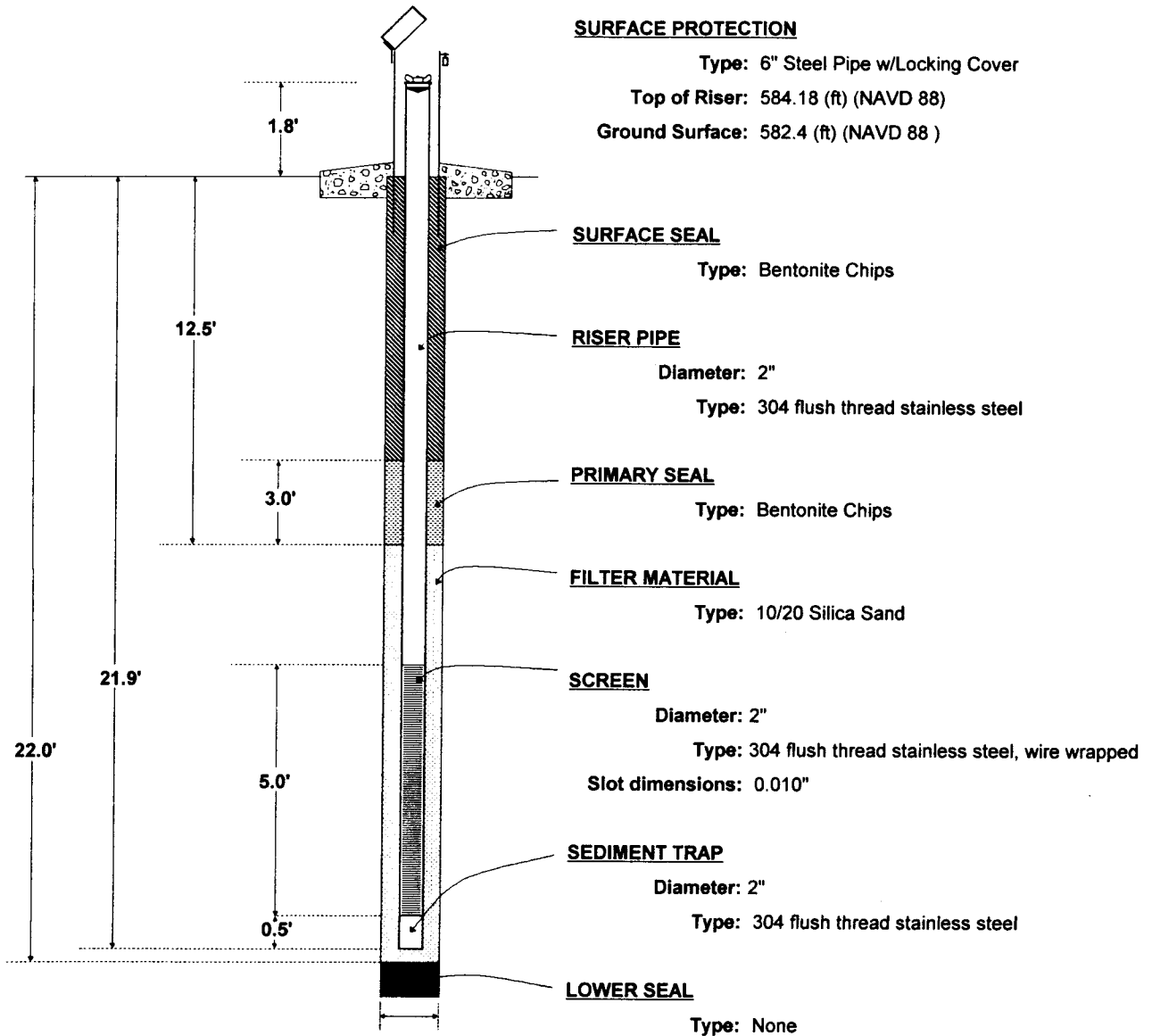
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**MONITORING WELL**

MONITORING WELL NO. MW-386S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6343.9' E 5203.6'	TOP OF RISER ELEVATION (DATUM) 584.18 ft (NAVD 88)		DATE 05/23/07
STRATUM MONITORED Lean Clay, Fat Clay				
INSPECTOR Deeken <i>gd</i>		CHECKED BY Meyer <i>sm</i>		APPROVED BY Meyer <i>sm</i>



**BORING DIAMETER**

**DIAMETER: 8"**

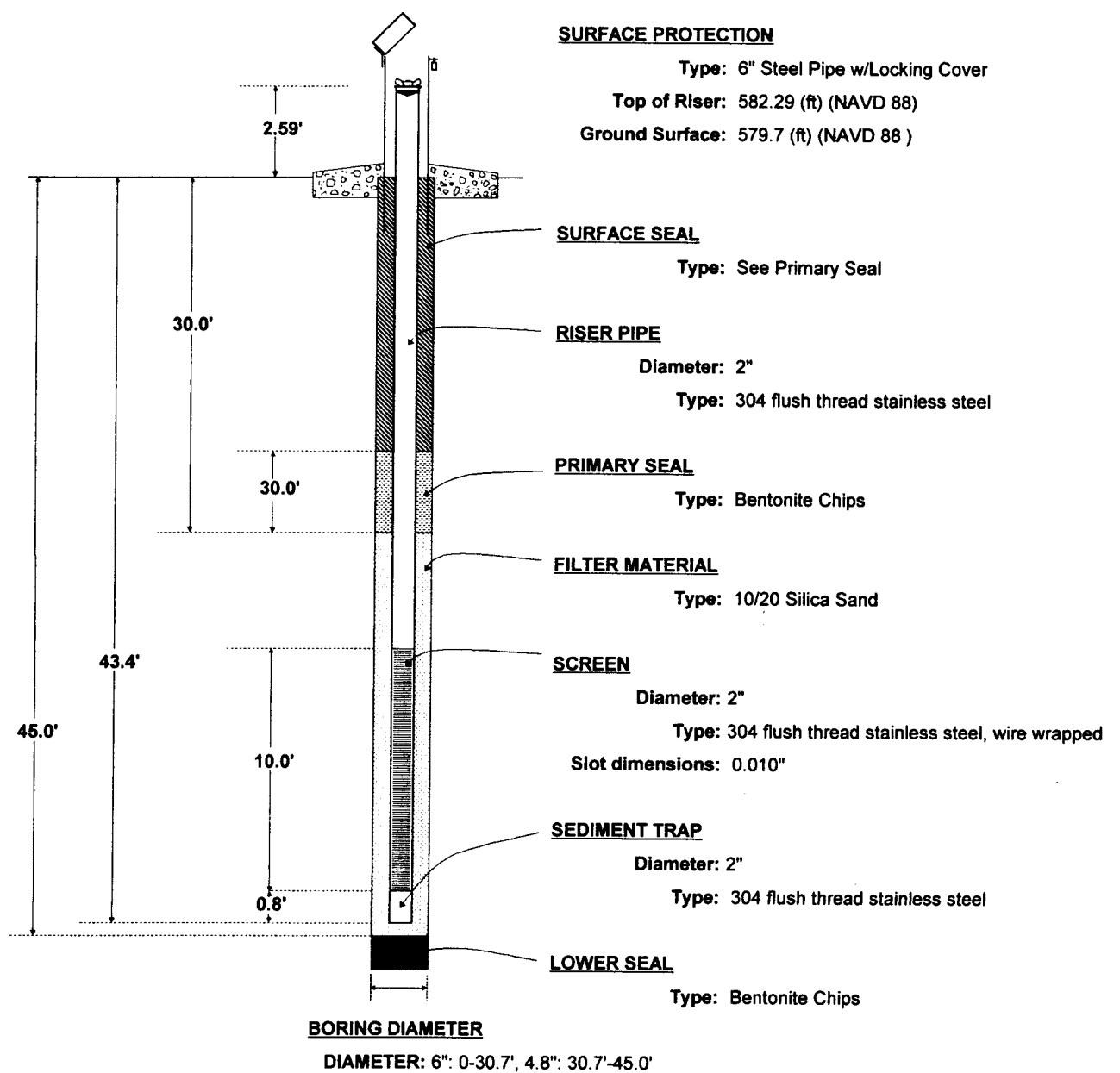
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 34.5 gallons of water over a multiple day period - pumped dry multiple times.



<b>CLIENT</b> Detroit Edison		<b>PROJECT</b> Fermi 3 COL Application		<b>PROJECT NO.</b> 147483
<b>PROJECT LOCATION</b> Monroe, MI	<b>COORDINATES</b> N 6660.2' E 4150.1'	<b>TOP OF RISER ELEVATION (DATUM)</b> 582.29 ft (NAVD 88)		<b>DATE</b> 06/01/07
<b>STRATUM MONITORED</b> Lean Clay, Bass Islands Group Dolomite				
<b>INSPECTOR</b> <i>[Signature]</i> Duncan		<b>CHECKED BY</b> <i>[Signature]</i> Meyer		<b>APPROVED BY</b> <i>[Signature]</i> Meyer

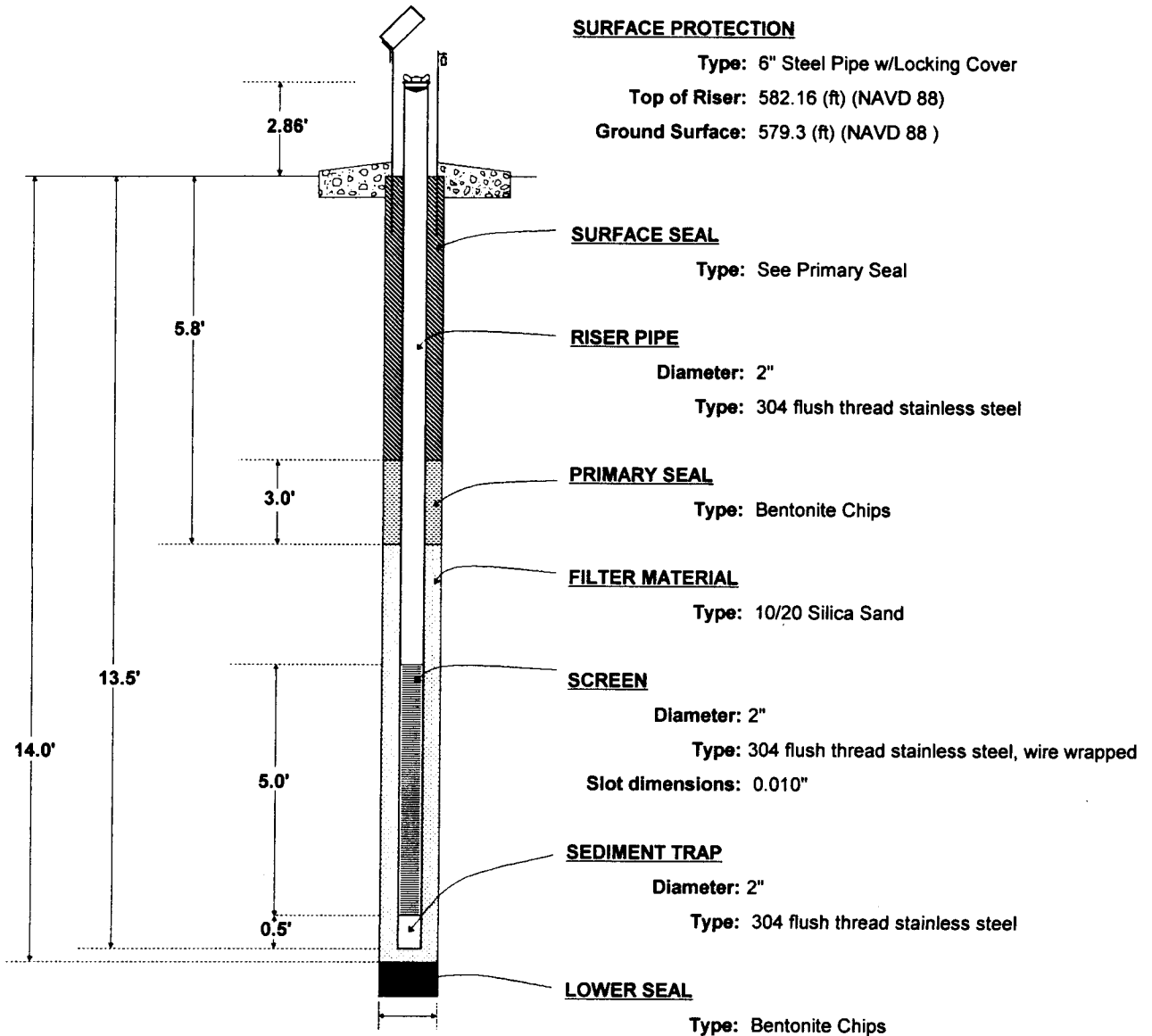


**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 103.5'-45.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal & hydrated; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 142 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6665.8' E 4148.2'	TOP OF RISER ELEVATION (DATUM) 582.16 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Boulders, Organic Soil, Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 582.16 (ft) (NAVD 88)  
Ground Surface: 579.3 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
Type: 304 flush thread stainless steel

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
Type: 304 flush thread stainless steel, wire wrapped  
Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
Type: 304 flush thread stainless steel

**LOWER SEAL**

Type: Bentonite Chips

**BORING DIAMETER**

**DIAMETER: 6"**

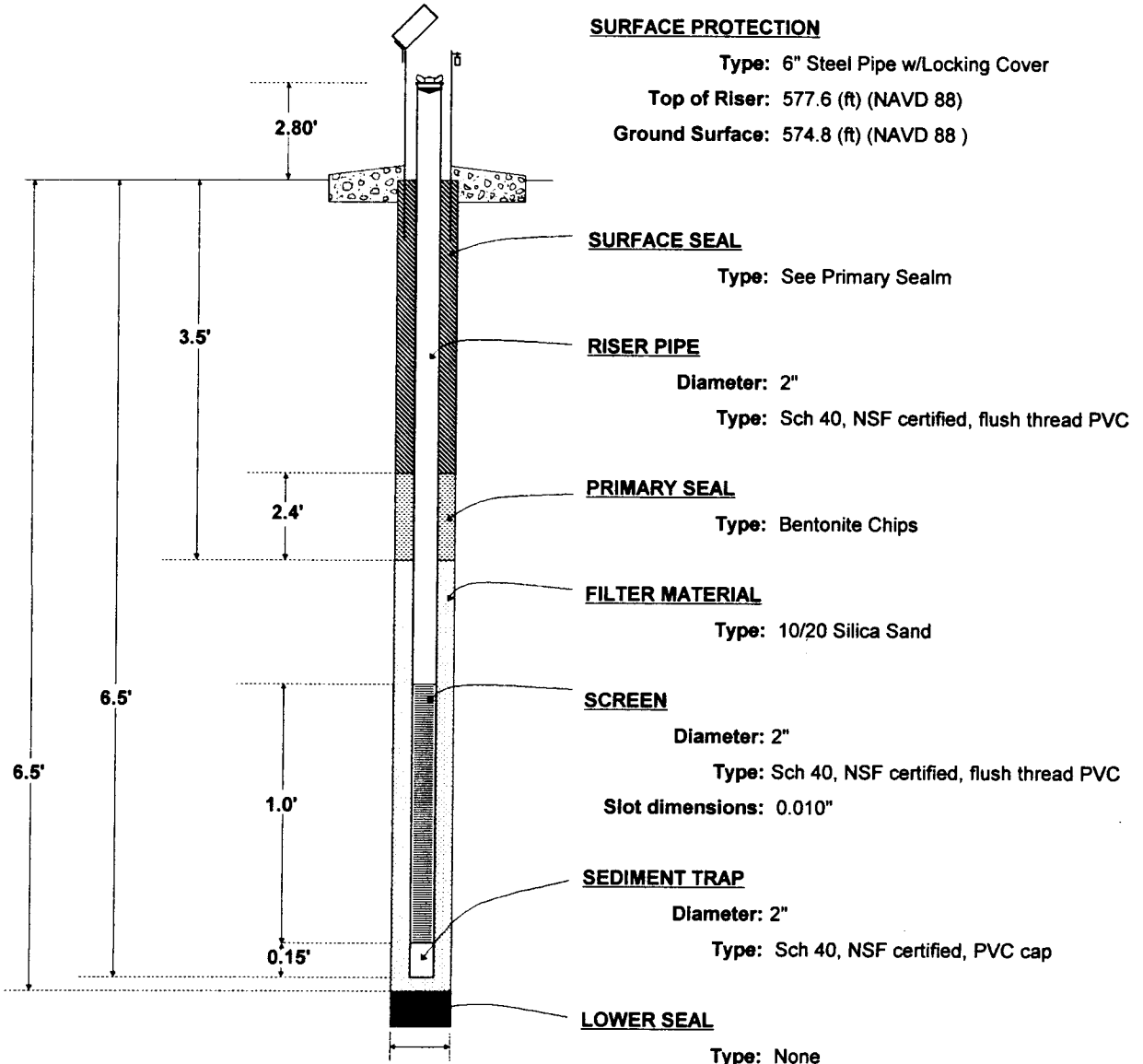
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 16.2'-14.0'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal & hydrated; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 44 gallons of water over multiple days.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8082.4' E 2168.8'	TOP OF RISER ELEVATION (DATUM) 577.6 ft (NAVD 88)		DATE 05/30/07
STRATUM MONITORED Fat Clay				
INSPECTOR Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>



- SURFACE PROTECTION**  
Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 577.6 (ft) (NAVD 88)  
Ground Surface: 574.8 (ft) (NAVD 88)
- SURFACE SEAL**  
Type: See Primary Sealm
- RISER PIPE**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- PRIMARY SEAL**  
Type: Bentonite Chips
- FILTER MATERIAL**  
Type: 10/20 Silica Sand
- SCREEN**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"
- SEDIMENT TRAP**  
Diameter: 2"  
Type: Sch 40, NSF certified, PVC cap
- LOWER SEAL**  
Type: None

**BORING DIAMETER**

**DIAMETER: 8"**

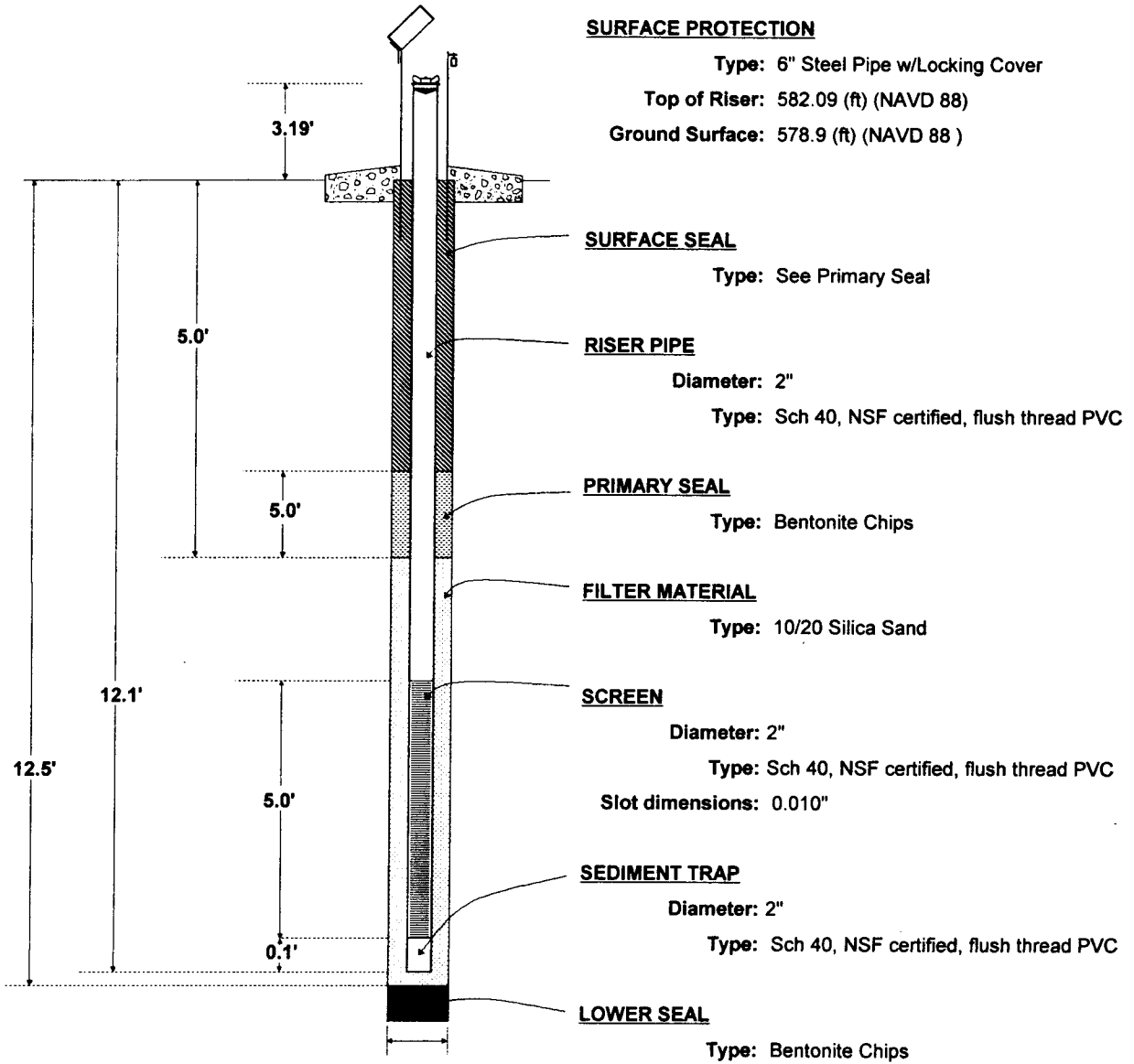
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser; placed filter; not surged (no water); placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Bottom cap attached w/stainless steel screws. Dry at time of installation - not developed.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 7960.1' E 4245.7'	TOP OF RISER ELEVATION (DATUM) 582.09 ft (NAVD 88)	DATE 06/01/07	
STRATUM MONITORED Gravelly Cobbles, Fat Clay, Lean Clay				
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>		



\*Note-Diagram not shown to scale

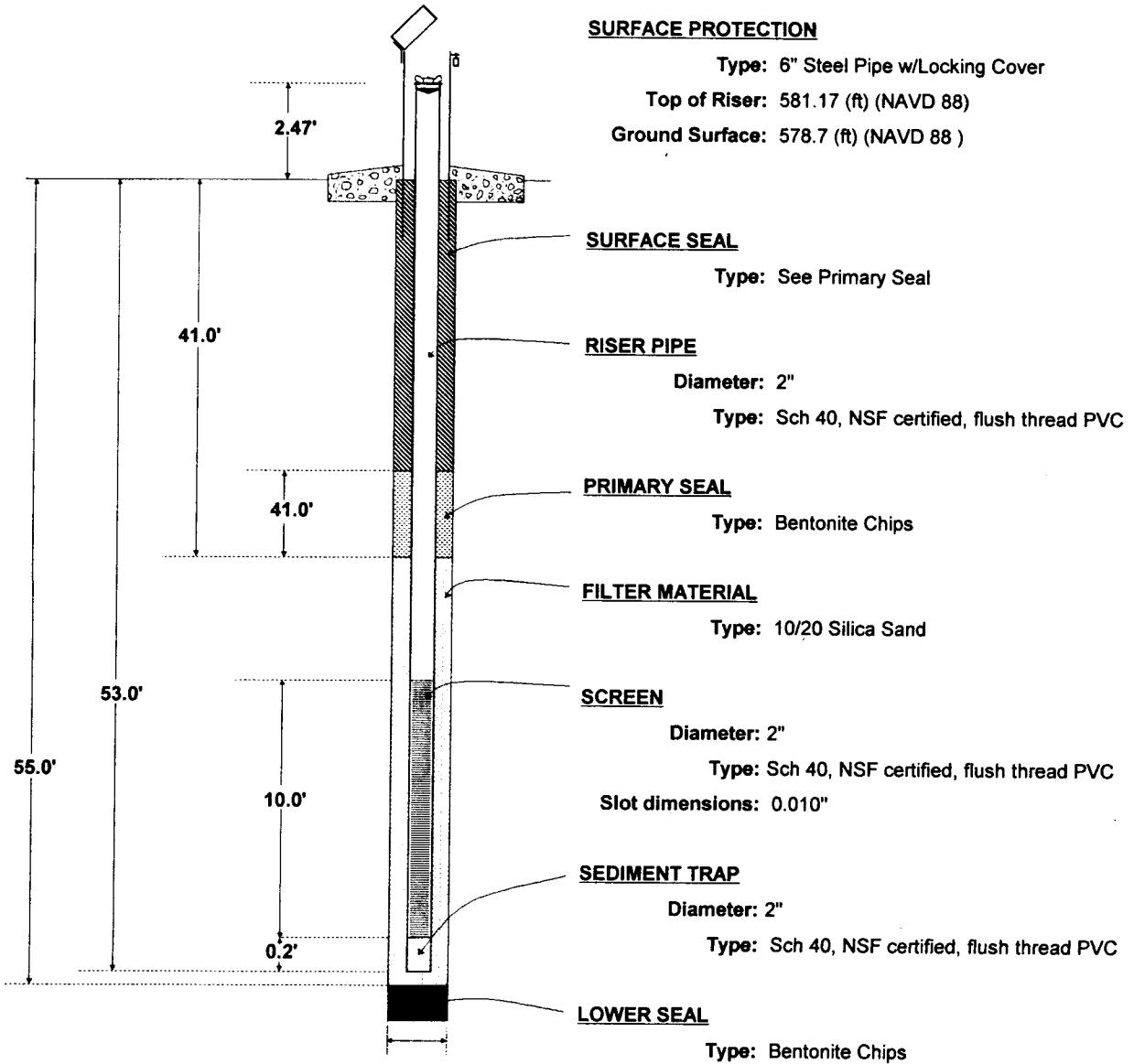
**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 16.5'-12.5'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 130 gallons of water.





CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8240.3' E 5237.2'	TOP OF RISER ELEVATION (DATUM) 581.17 ft (NAVD 88)		DATE 06/02/07
STRATUM MONITORED Bass Islands Group Dolomite & Shale				
INSPECTOR <i>Geo</i> Ohlmacher/Duncan		CHECKED BY Meyer <i>sm</i>		APPROVED BY Meyer <i>sm</i>



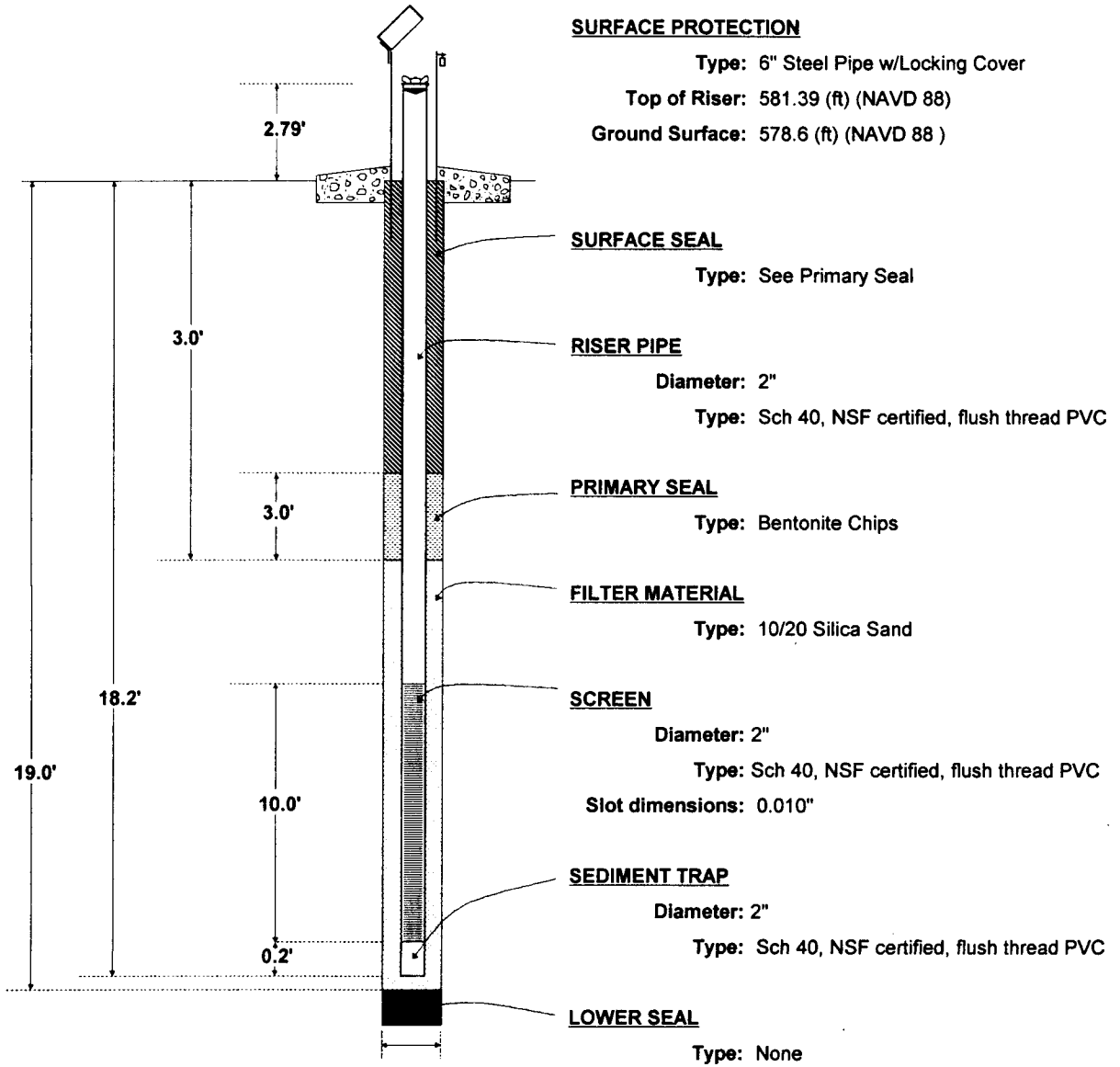
**BORING DIAMETER**  
 DIAMETER: 6" 0-30', 4.8" 30'-55'  
 \*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-55.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 141 gallons of water. Pumped on two separate days.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8242.9' E 5232.9'	TOP OF RISER ELEVATION (DATUM) 581.39 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Boulders, Sandy Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover

Top of Riser: 581.39 (ft) (NAVD 88)

Ground Surface: 578.6 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 6"**

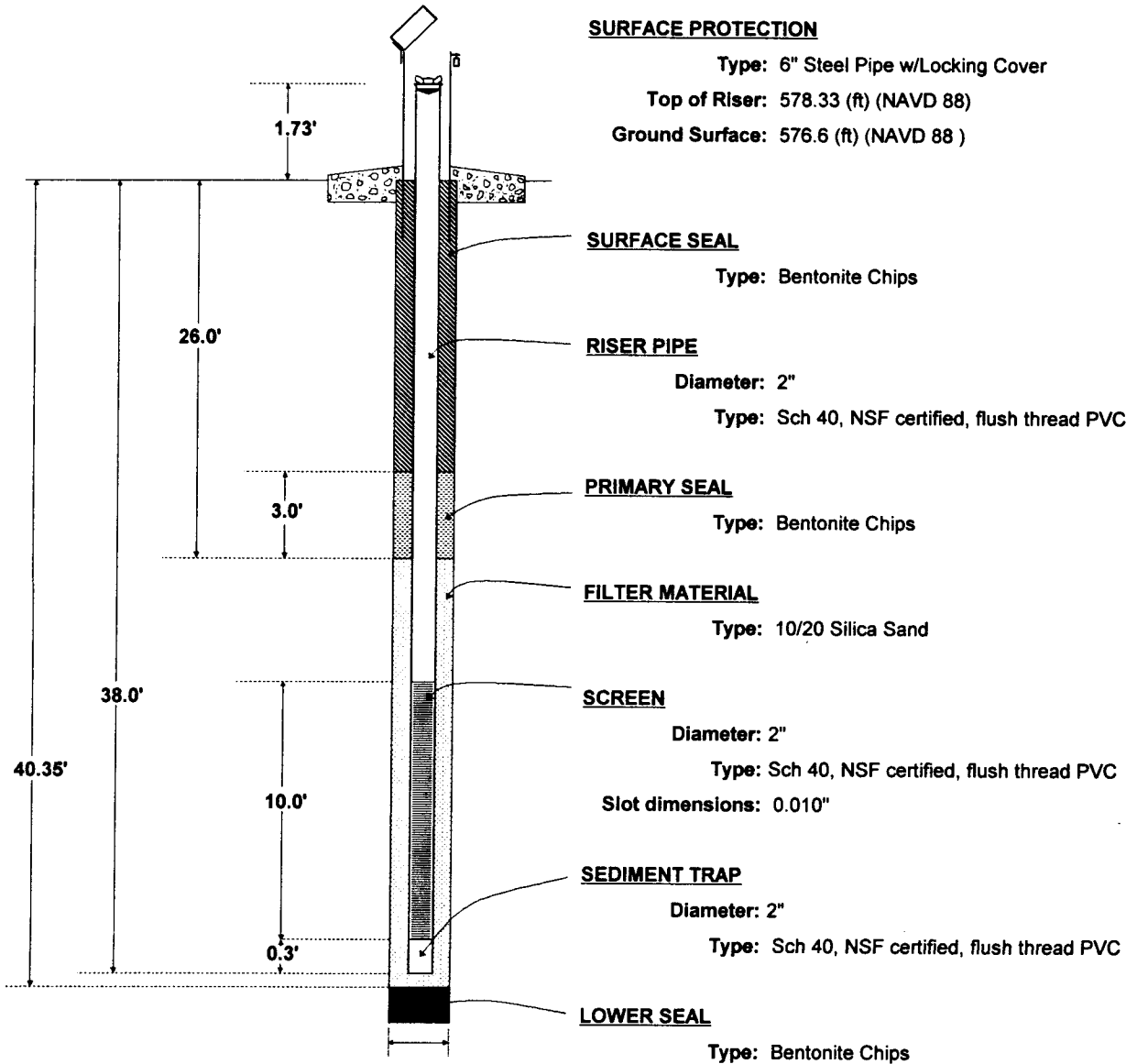
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 105 gallons of water.



<b>CLIENT</b> Detroit Edison		<b>PROJECT</b> Fermi 3 COL Application		<b>PROJECT NO.</b> 147483
<b>PROJECT LOCATION</b> Monroe, MI	<b>COORDINATES</b> N 9367.4' E 2922.8'	<b>TOP OF RISER ELEVATION (DATUM)</b> 578.33 ft (NAVD 88)		<b>DATE</b> 06/06/07
<b>STRATUM MONITORED</b> Bass Islands Group Dolomite				
<b>INSPECTOR</b> Grainger <i>Em for</i>		<b>CHECKED BY</b> Meyer <i>Em</i>		<b>APPROVED BY</b> Meyer <i>Em</i>



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 578.33 (ft) (NAVD 88)  
Ground Surface: 576.6 (ft) (NAVD 88)

**SURFACE SEAL**

Type: Bentonite Chips

**RISER PIPE**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: Bentonite Chips

**BORING DIAMETER**

DIAMETER: 8": 0-14', 4.8": 14'-40.35'

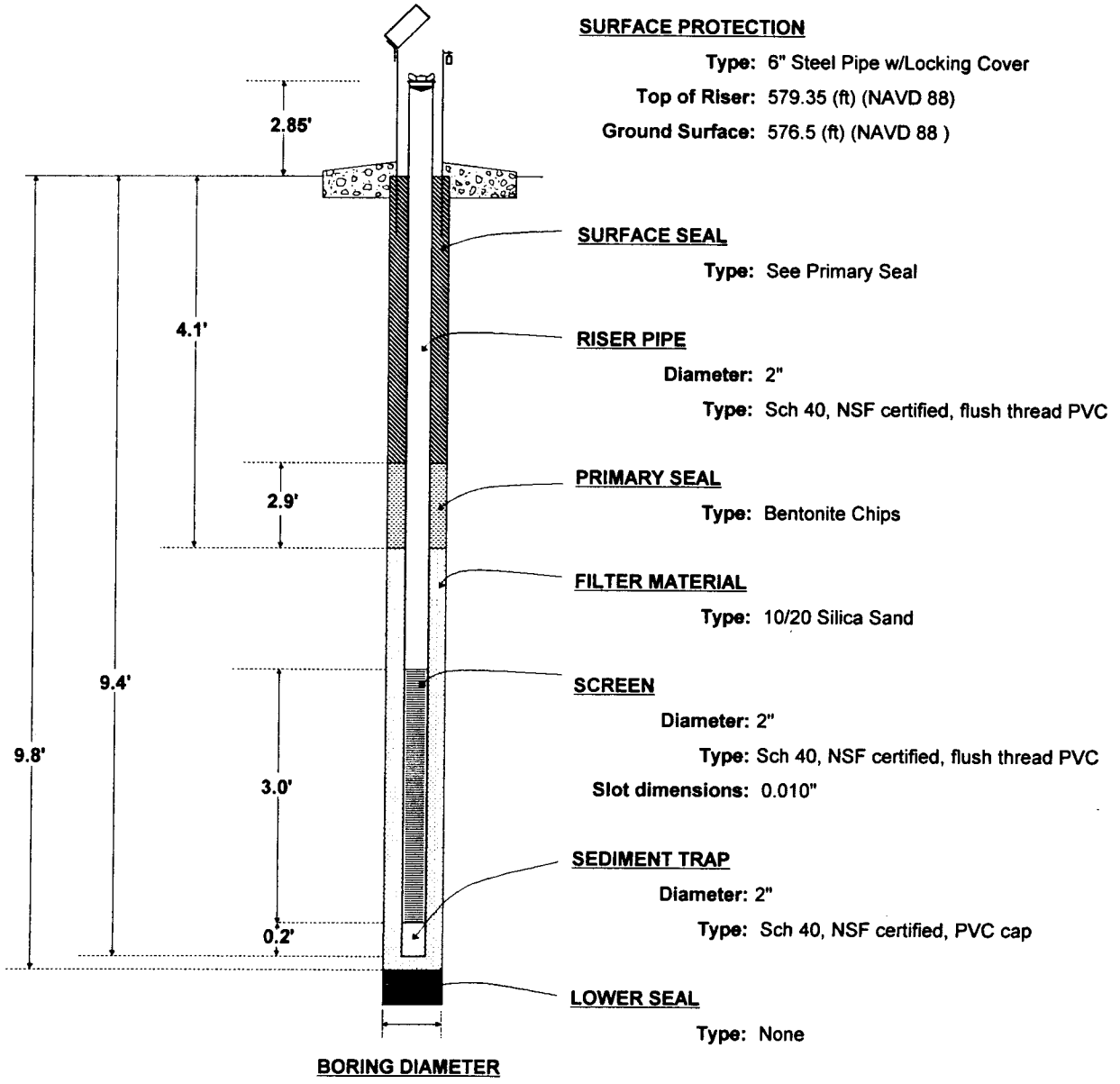
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 150.0'-40.35'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 695 gallons of water. Pumped on three separate days.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9360.0' E 2918.2'	TOP OF RISER ELEVATION (DATUM) 579.35 ft (NAVD 88)	DATE 05/06/07	
STRATUM MONITORED Lean Clay				
INSPECTOR <i>[Signature]</i> Duncan		CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
 Top of Riser: 579.35 (ft) (NAVD 88)  
 Ground Surface: 576.5 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
 Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
 Type: Sch 40, NSF certified, flush thread PVC  
 Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
 Type: Sch 40, NSF certified, PVC cap

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 8"**

*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 12 gallons of water over a multiple day period - pumped dry multiple times.



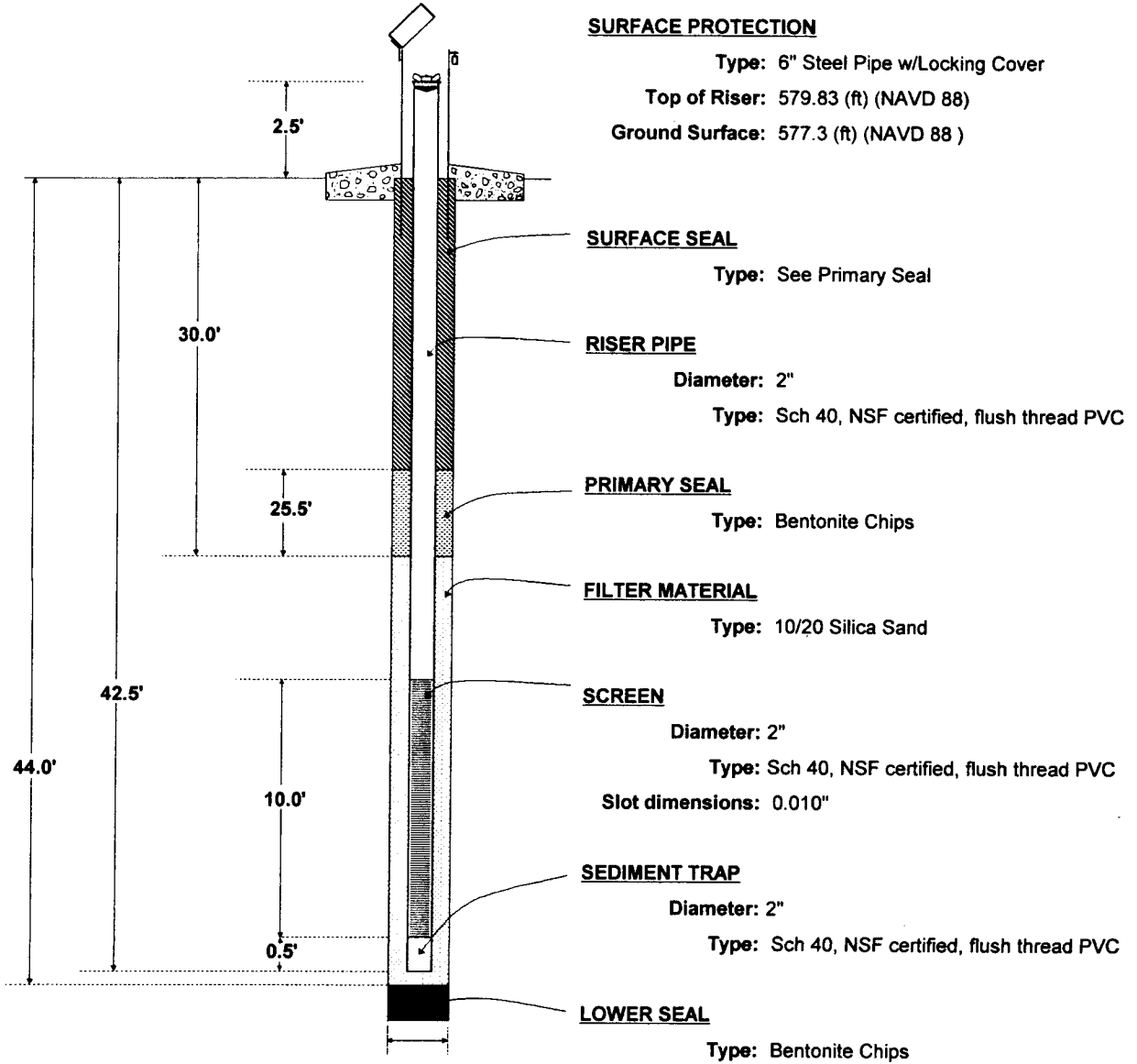
**BLACK & VEATCH**

**MONITORING WELL**

MONITORING WELL NO. MW-395D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8900.0' E 4600.1'	TOP OF RISER ELEVATION (DATUM) 579.83 ft (NAVD 88)	DATE 06/01/07	
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Ohlmacher <i>EO</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>



**BORING DIAMETER**

DIAMETER: 8" : 0-20.5', 4.8" : 20.5-44'

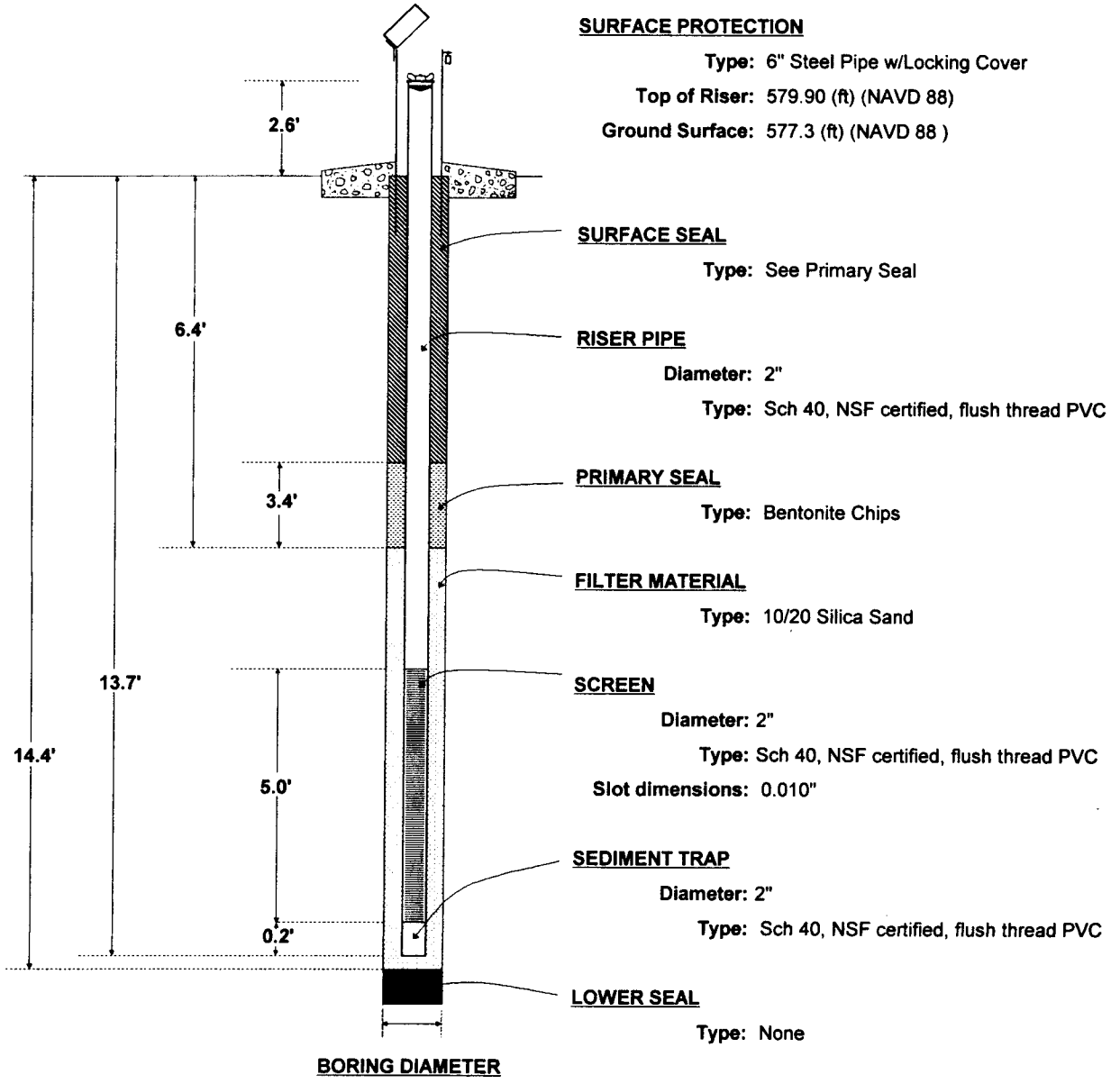
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-44.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 220 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8906.2' E 4599.7'	TOP OF RISER ELEVATION (DATUM) 579.90 ft (NAVD 88)	DATE 05/30/07
STRATUM MONITORED Gravelly Cobbles, Fat Clay, Lean Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover

Top of Riser: 579.90 (ft) (NAVD 88)

Ground Surface: 577.3 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"

Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 6"**

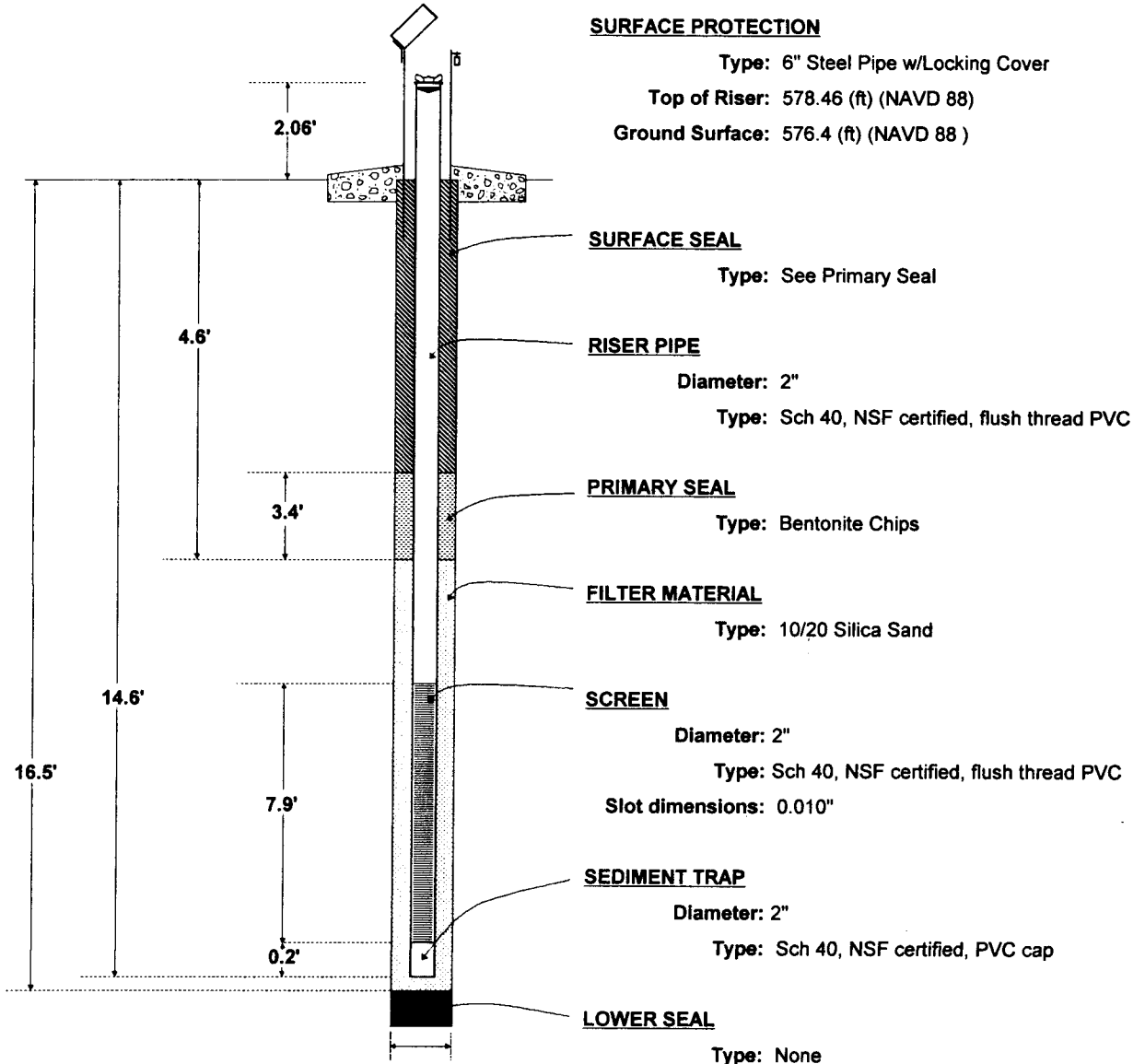
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 255 gallons of water. Pumped on two separate days.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5730.3' E 3132.4'	TOP OF RISER ELEVATION (DATUM) 578.46 ft (NAVD 88)		DATE 05/07/07
STRATUM MONITORED Sandy Lean Clay, Organic Soil, Fat Clay, Sandy Silt				
INSPECTOR Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>



- SURFACE PROTECTION**  
Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 578.46 (ft) (NAVD 88)  
Ground Surface: 576.4 (ft) (NAVD 88)
- SURFACE SEAL**  
Type: See Primary Seal
- RISER PIPE**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- PRIMARY SEAL**  
Type: Bentonite Chips
- FILTER MATERIAL**  
Type: 10/20 Silica Sand
- SCREEN**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"
- SEDIMENT TRAP**  
Diameter: 2"  
Type: Sch 40, NSF certified, PVC cap
- LOWER SEAL**  
Type: None

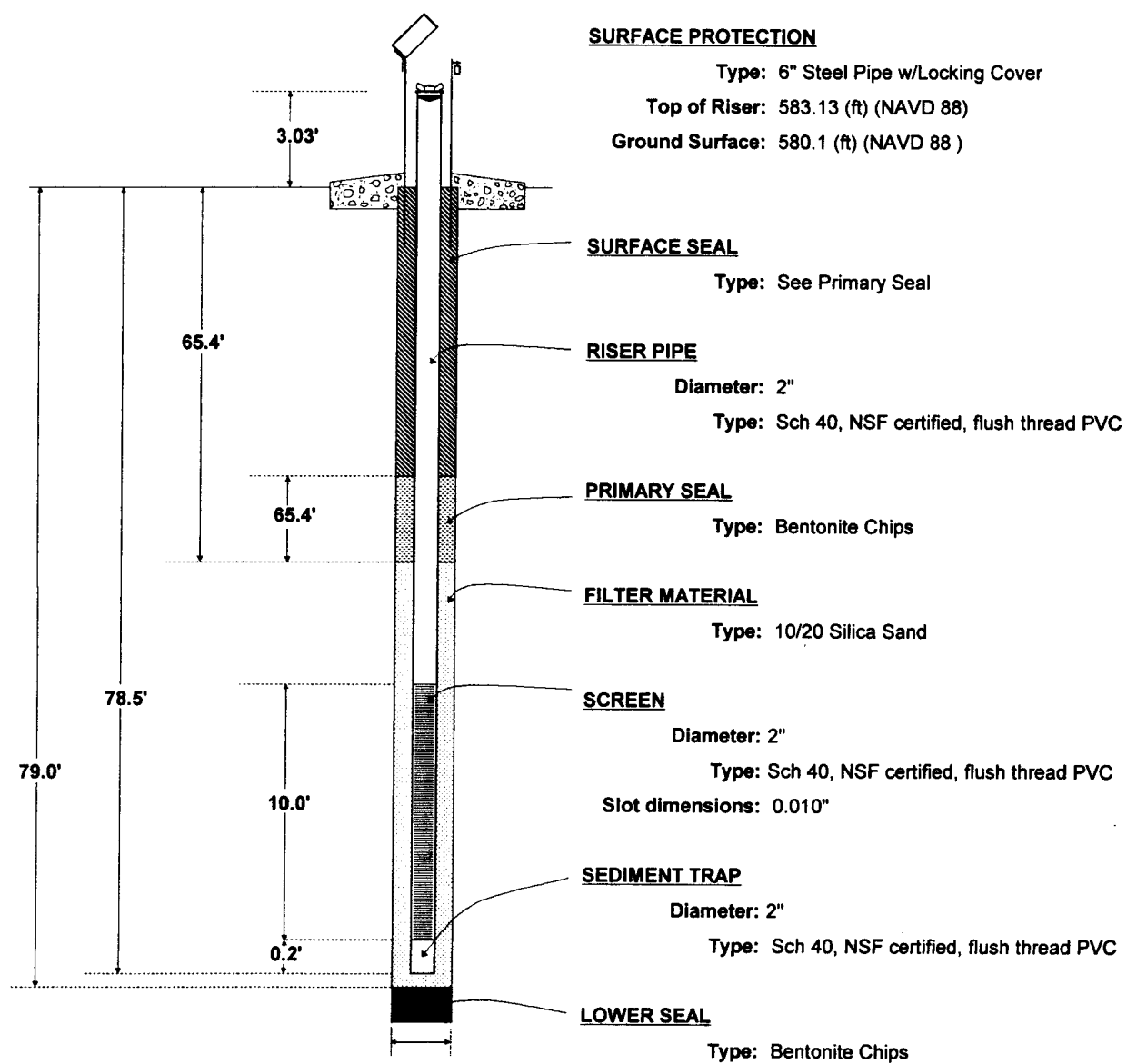
**BORING DIAMETER**  
DIAMETER: 8"  
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 67 gallons of water over a multiple day period - pumped dry multiple times.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6201.7' E 4390.0'	TOP OF RISER ELEVATION (DATUM) 583.13 ft (NAVD 88)		DATE 05/31/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR <i>[Signature]</i> Duncan		CHECKED BY <i>[Signature]</i> Meyer		APPROVED BY <i>[Signature]</i> Meyer



- SURFACE PROTECTION**  
Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 583.13 (ft) (NAVD 88)  
Ground Surface: 580.1 (ft) (NAVD 88)
- SURFACE SEAL**  
Type: See Primary Seal
- RISER PIPE**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- PRIMARY SEAL**  
Type: Bentonite Chips
- FILTER MATERIAL**  
Type: 10/20 Silica Sand
- SCREEN**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"
- SEDIMENT TRAP**  
Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC
- LOWER SEAL**  
Type: Bentonite Chips

**BORING DIAMETER**  
DIAMETER: 6": 0-33.5', 4.8": 33.5'-79.0'  
*\*Note-Diagram not shown to scale*

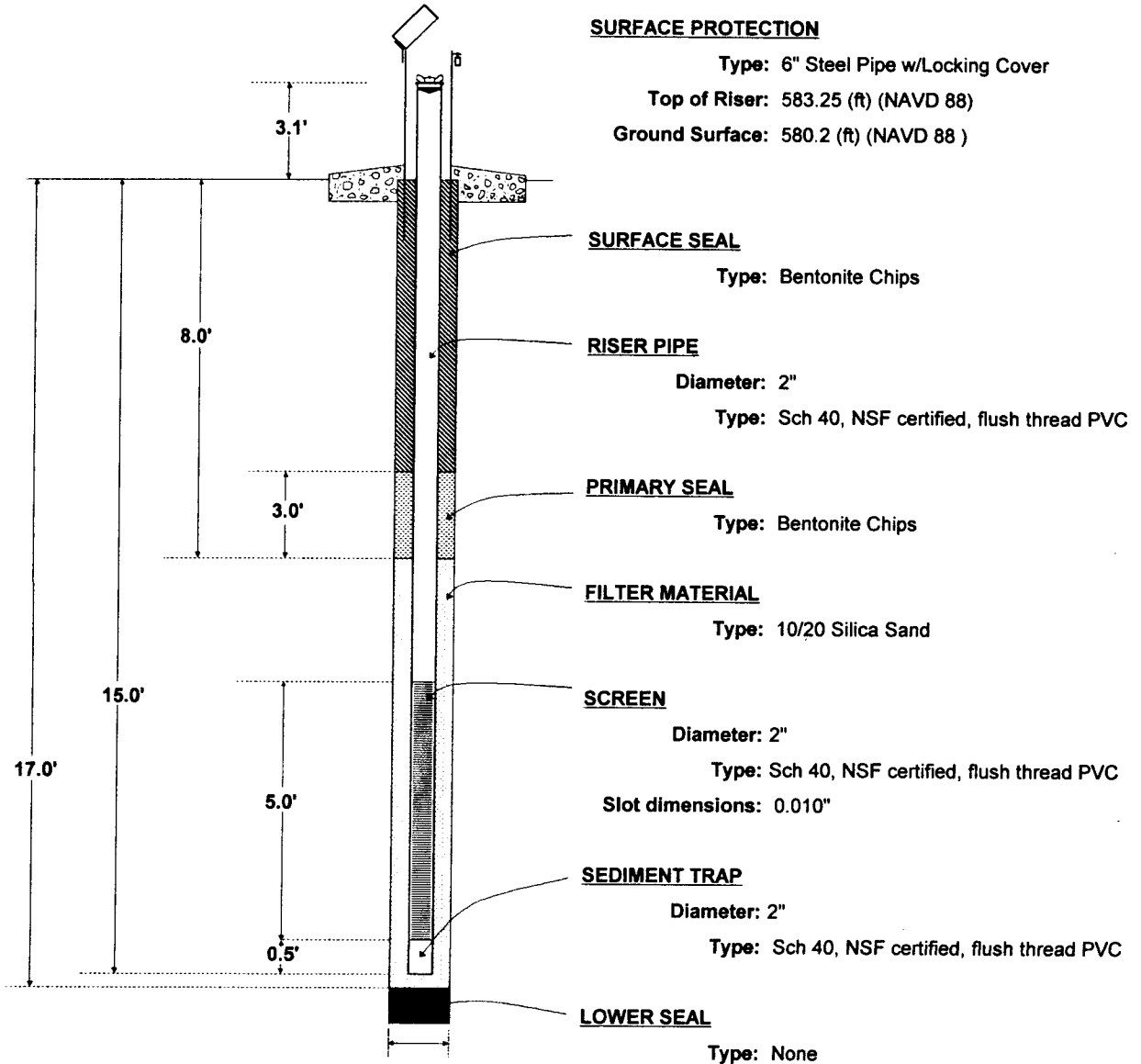
**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 102.5'-79.0'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 120 gallons of water.





CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6198.1' E 4385.6'	TOP OF RISER ELEVATION (DATUM) 583.25 ft (NAVD 88)		DATE 06/04/07
STRATUM MONITORED Well Graded Gravel, Lean Clay				
INSPECTOR Deeken <i>JW</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>

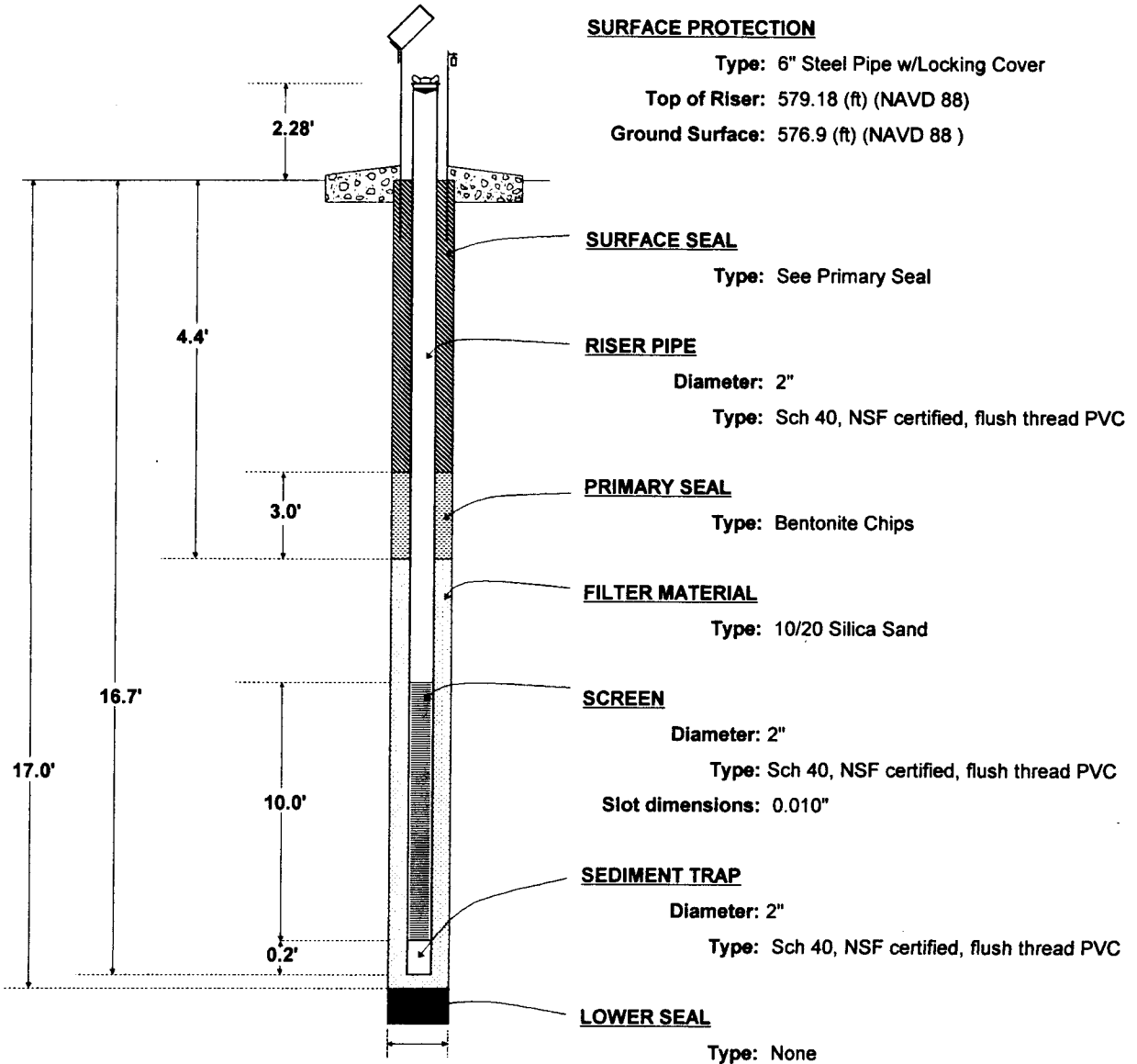


**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 135 gallons of water.



<b>CLIENT</b> Detroit Edison		<b>PROJECT</b> Fermi 3 COL Application		<b>PROJECT NO.</b> 147483
<b>PROJECT LOCATION</b> Monroe, MI	<b>COORDINATES</b> N 7821.4' E 3889.3'		<b>TOP OF RISER ELEVATION (DATUM)</b> 579.18 ft (NAVD 88)	<b>DATE</b> 05/15/07
<b>STRATUM MONITORED</b> Sandy Silt, Lean Clay, Sandy Lean Clay				
<b>INSPECTOR</b> Duncan		<b>CHECKED BY</b> Meyer		<b>APPROVED BY</b> Meyer

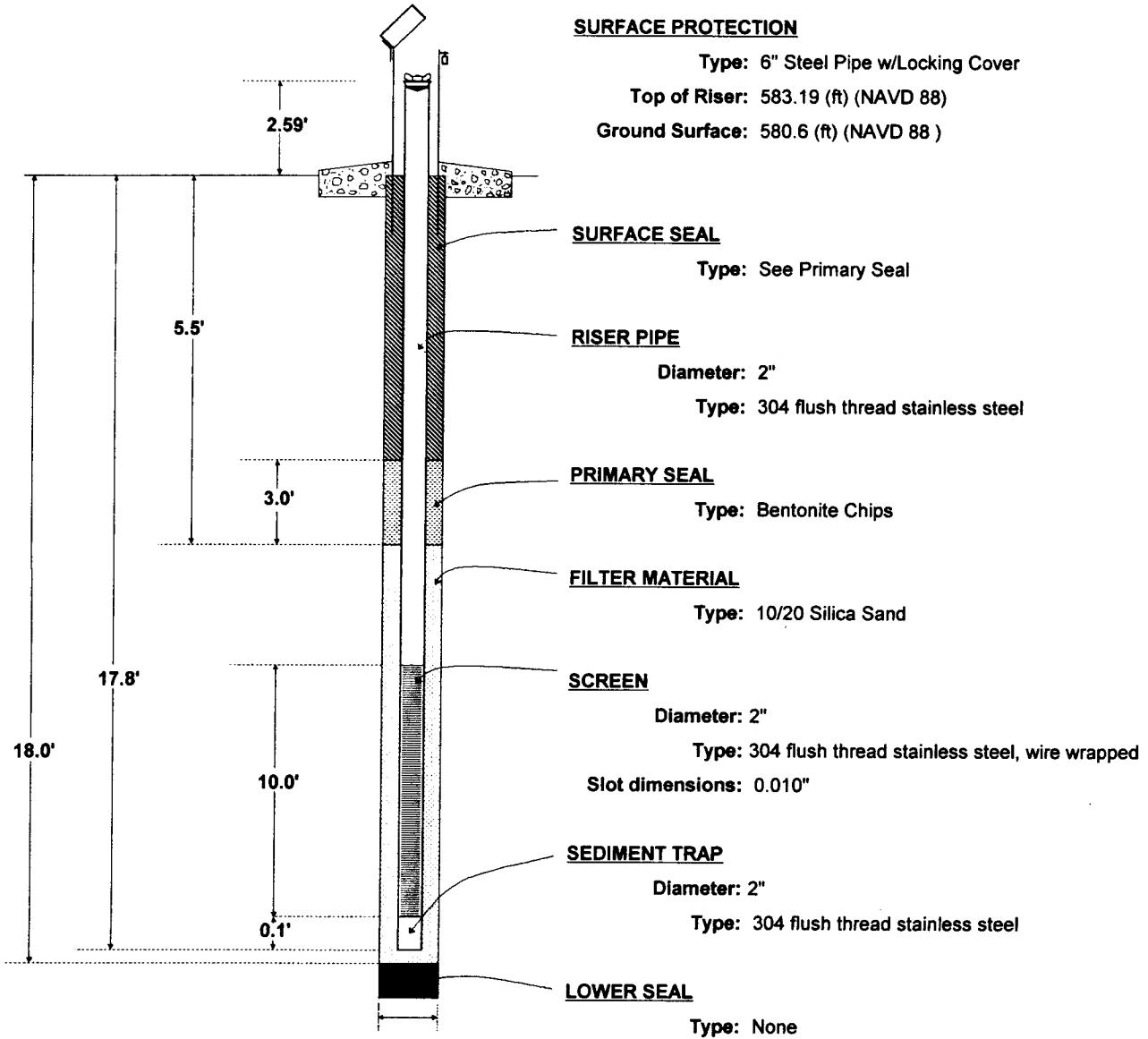


**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 104 gallons of water over a multiple day period - pumped dry multiple times.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8088.7' E 5841.5'	TOP OF RISER ELEVATION (DATUM) 583.19 ft (NAVD 88)	DATE 05/29/07
STRATUM MONITORED Rock Fill, Poorly Graded Gravel & Sand, Fat Clay			
INSPECTOR <i>[Signature]</i> Duncan	CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
 Top of Riser: 583.19 (ft) (NAVD 88)  
 Ground Surface: 580.6 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
 Type: 304 flush thread stainless steel

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
 Type: 304 flush thread stainless steel, wire wrapped  
 Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
 Type: 304 flush thread stainless steel

**LOWER SEAL**

Type: None

**BORING DIAMETER**

DIAMETER: 15": 0-8', 8": 8'-18'

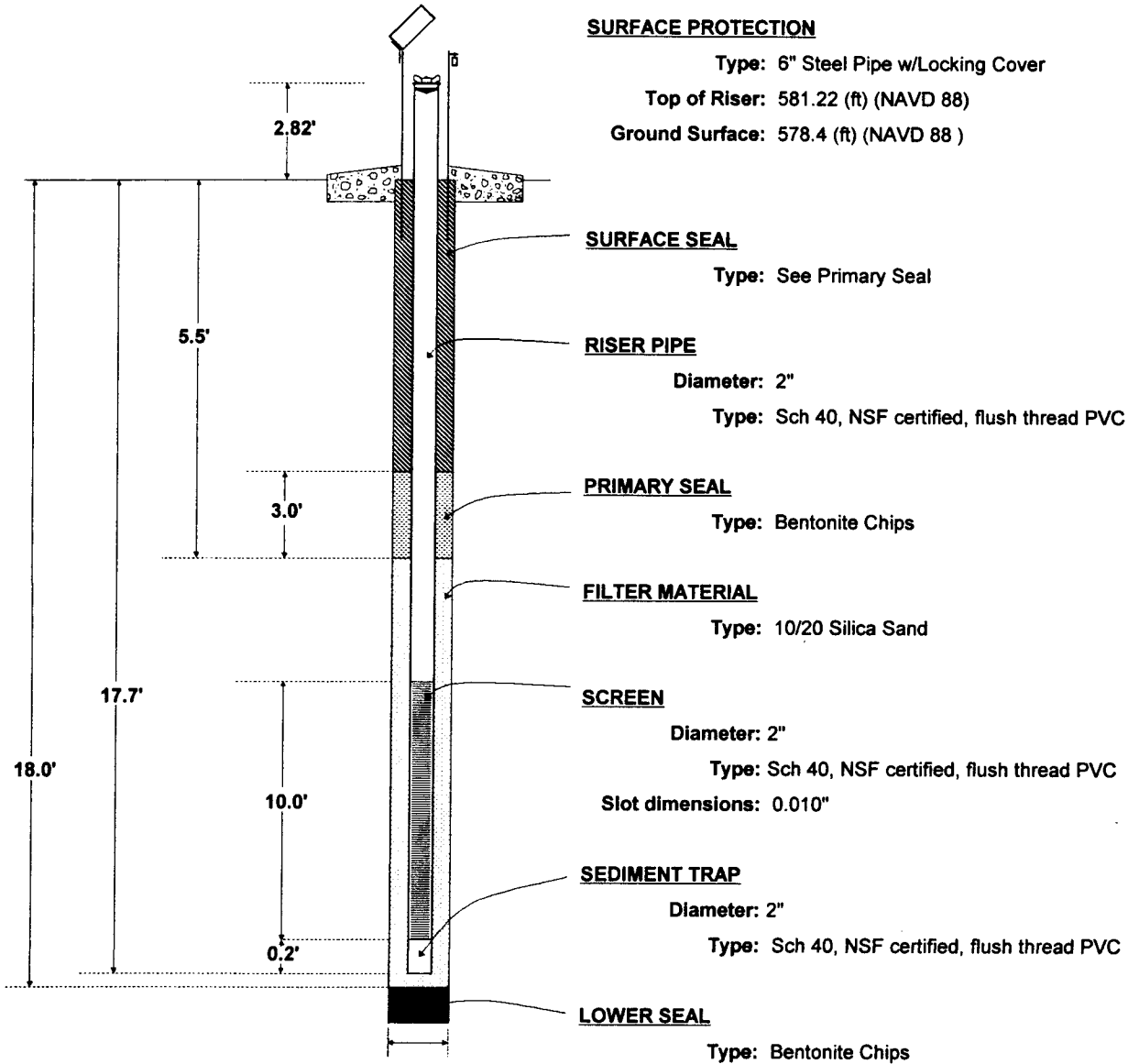
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter; water present; not surged; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 57 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8949.8' E 5248.8'	TOP OF RISER ELEVATION (DATUM) 581.22 ft (NAVD 88)		DATE 05/24/07
STRATUM MONITORED Rock Fill, Fat Clay				
INSPECTOR <i>[Signature]</i> Duncan		CHECKED BY Meyer <i>[Signature]</i>		APPROVED BY Meyer <i>[Signature]</i>



**BORING DIAMETER**

**DIAMETER: 8"**

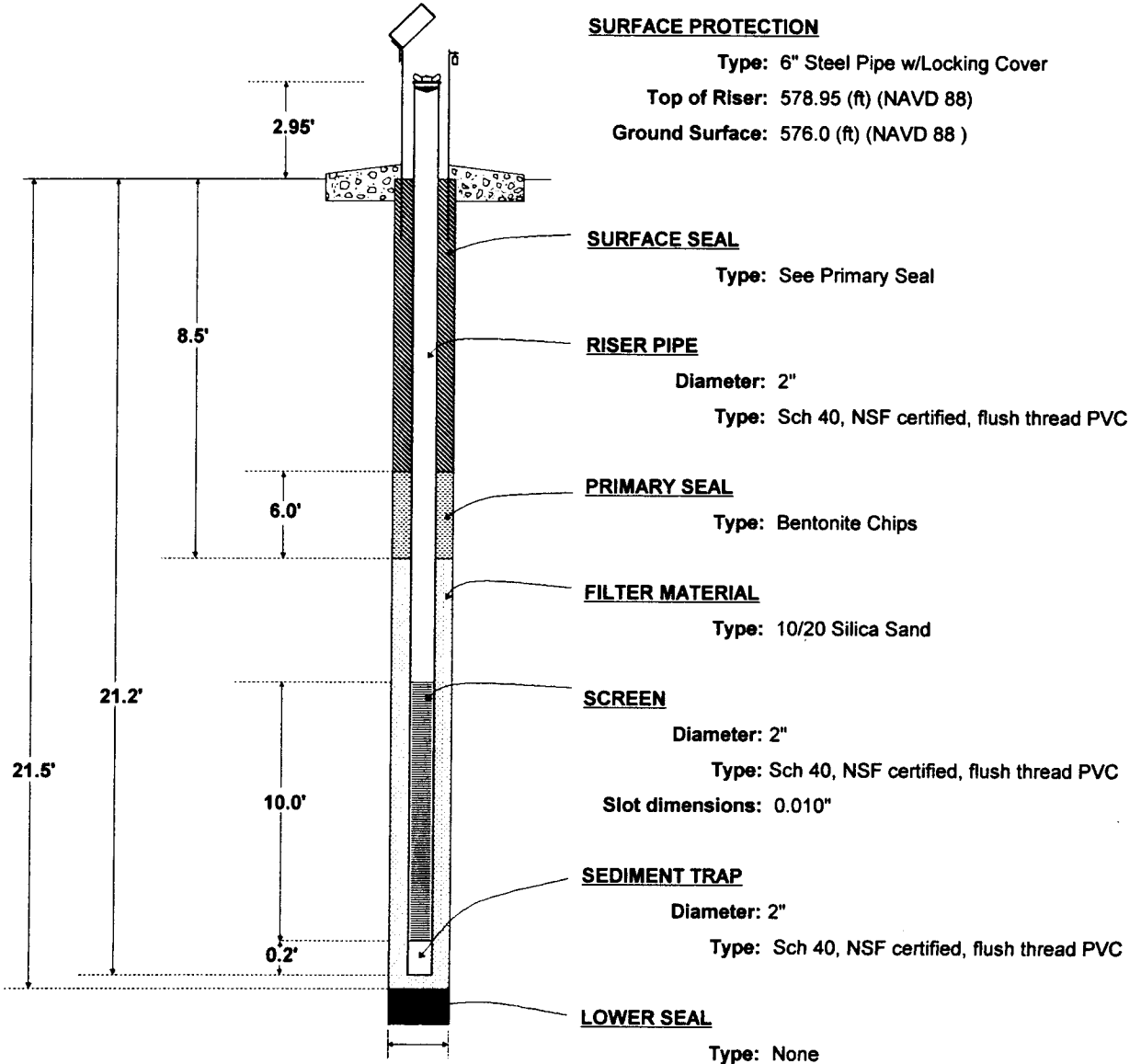
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 19.5'-18.0'; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 55 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 8901.4' E 5748.5'	TOP OF RISER ELEVATION (DATUM) 578.95 ft (NAVD 88)	DATE 05/23/07	
STRATUM MONITORED Fat Clay, Organic Soil, Lean Clay, Sandy Lean Clay				
INSPECTOR Duncan		CHECKED BY Meyer	APPROVED BY Meyer	



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 578.95 (ft) (NAVD 88)  
Ground Surface: 576.0 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 8"**

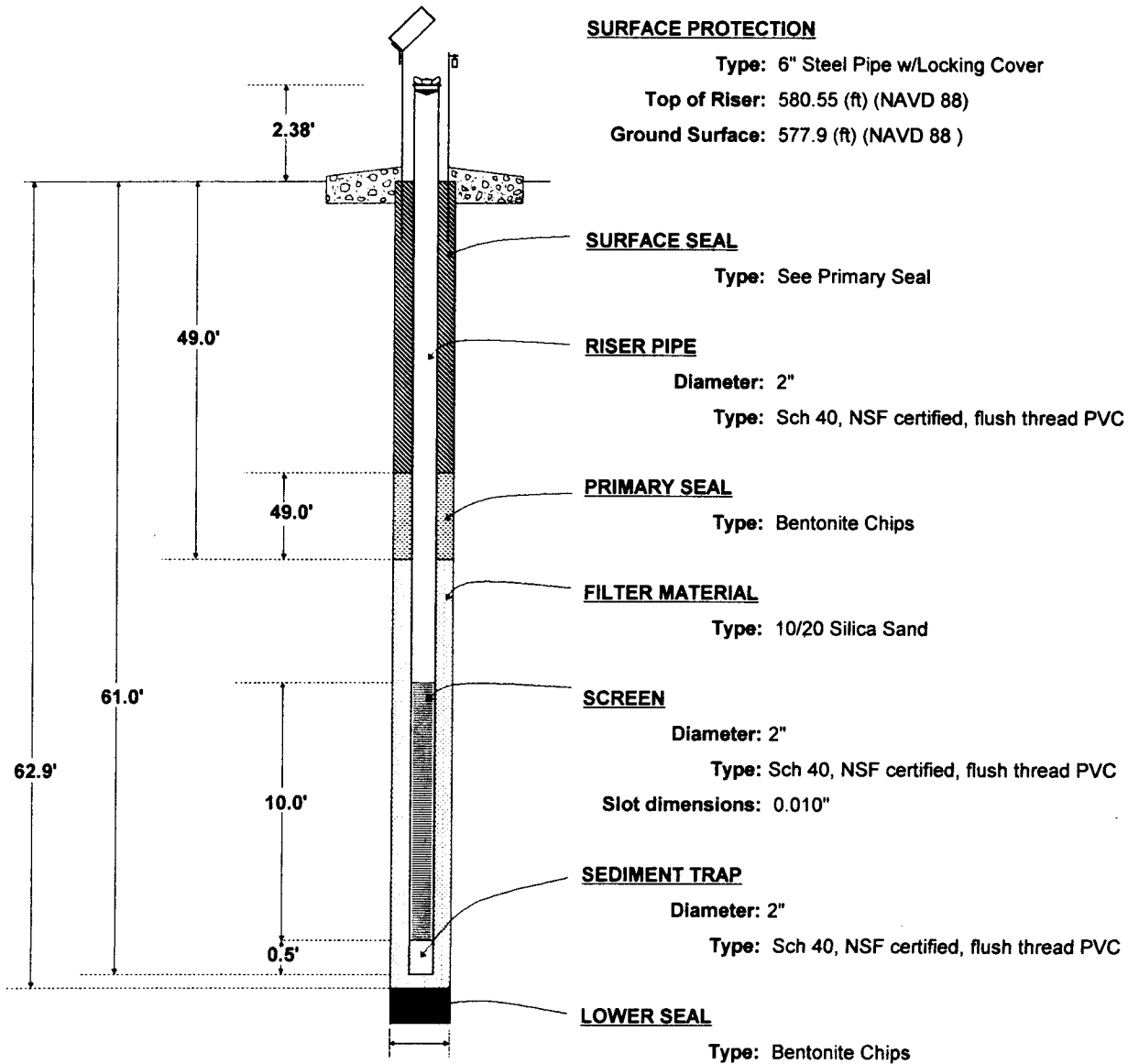
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI	COORDINATES N 9510.6' E 5352.1'	TOP OF RISER ELEVATION (DATUM) 580.55 ft (NAVD 88)		DATE 06/02/07	
STRATUM MONITORED Salina Group - Unit F: Shale, Dolomite					
INSPECTOR <i>GC</i> Ohlmacher/Duncan		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>		



**BORING DIAMETER**

DIAMETER: 6": 0-29.5', 4.8": 29.5'-61'

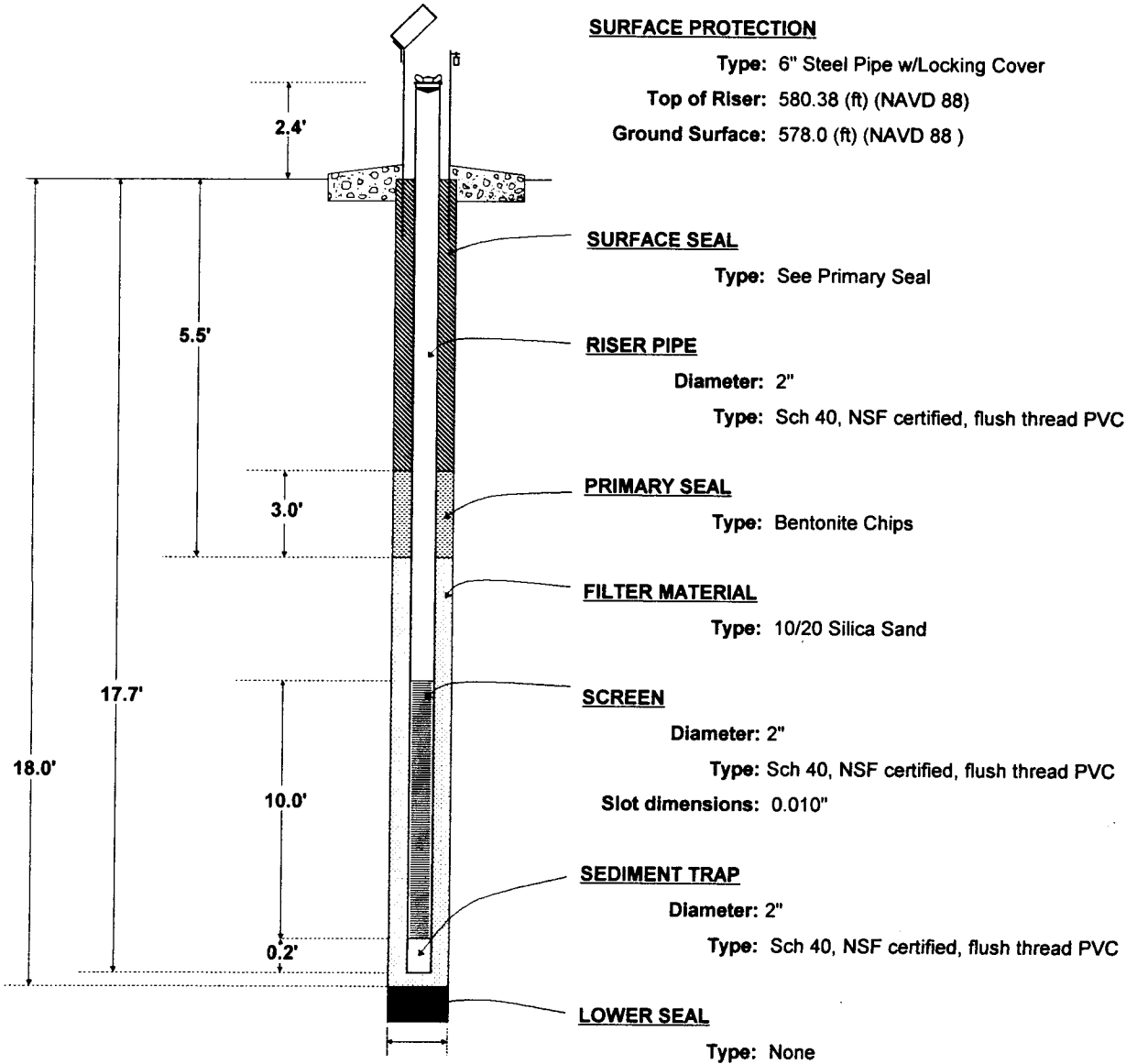
\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 101.0'-62.9'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 100 gallons of water.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9504.3' E 5350.4'	TOP OF RISER ELEVATION (DATUM) 580.38 ft (NAVD 88)		DATE 05/23/07
STRATUM MONITORED Lean Clay, Organic Soil				
INSPECTOR <i>Duncan</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>



**SURFACE PROTECTION**

Type: 6" Steel Pipe w/Locking Cover  
Top of Riser: 580.38 (ft) (NAVD 88)  
Ground Surface: 578.0 (ft) (NAVD 88)

**SURFACE SEAL**

Type: See Primary Seal

**RISER PIPE**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**PRIMARY SEAL**

Type: Bentonite Chips

**FILTER MATERIAL**

Type: 10/20 Silica Sand

**SCREEN**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC  
Slot dimensions: 0.010"

**SEDIMENT TRAP**

Diameter: 2"  
Type: Sch 40, NSF certified, flush thread PVC

**LOWER SEAL**

Type: None

**BORING DIAMETER**

**DIAMETER: 8"**

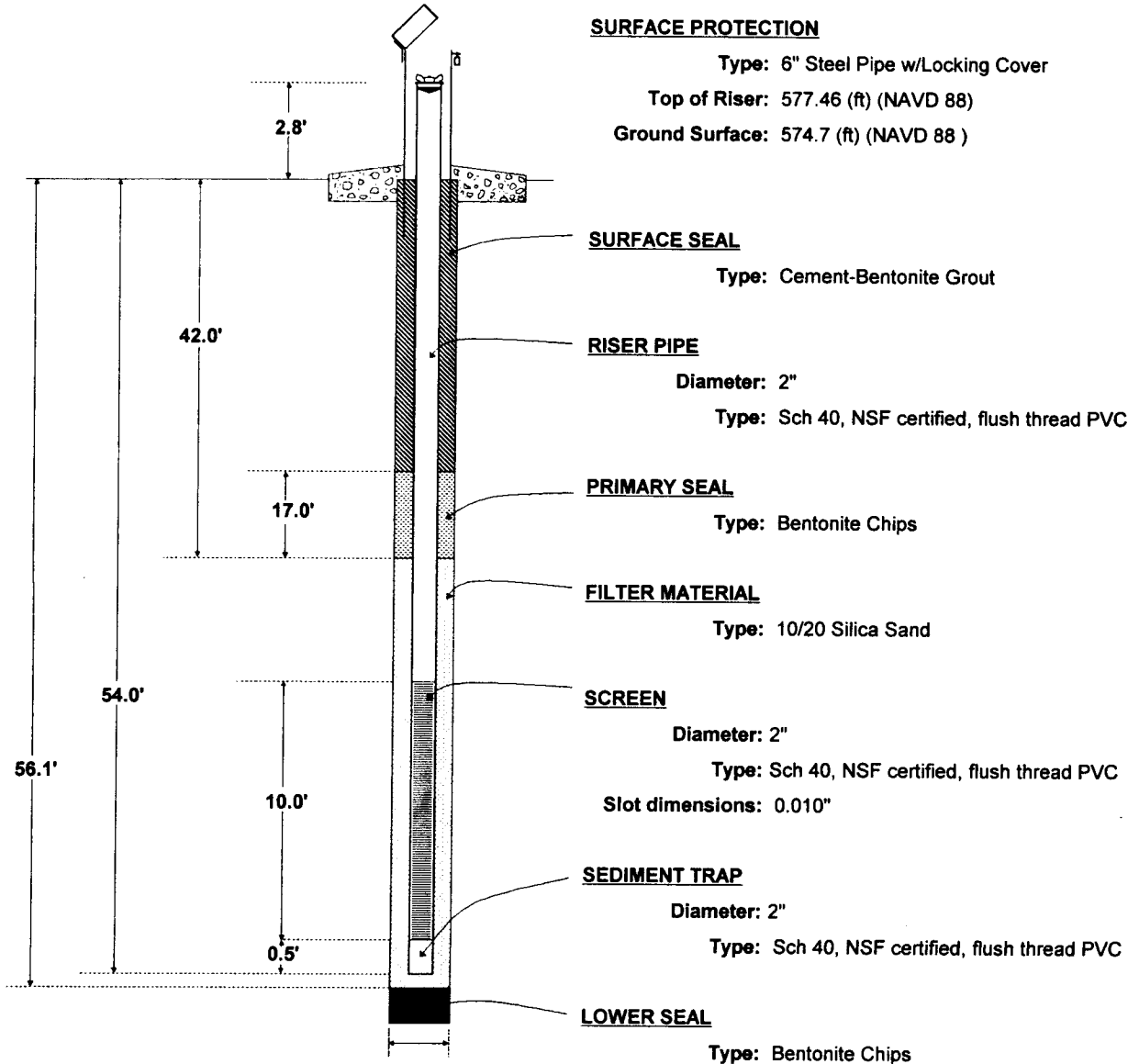
*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.



CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 2565.59' E 5228.73'	TOP OF RISER ELEVATION (DATUM) 577.46 ft (NAVD 88)	DATE 05/30/07	
STRATUM MONITORED Bass Isl Gr Dolomite; Salina Gr - Unit F Shale & Dolomite				
INSPECTOR Ohlmacher <i>BO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	



**BORING DIAMETER**

**DIAMETER: 8": 0-26.8'; 4.8": 26.8'-56.1'**

*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 102.0'-56.1'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; placed grout seal; installed protective cover w/concrete pad at surface.

**NOTES:** Developed by pumping 172 gallons of water.

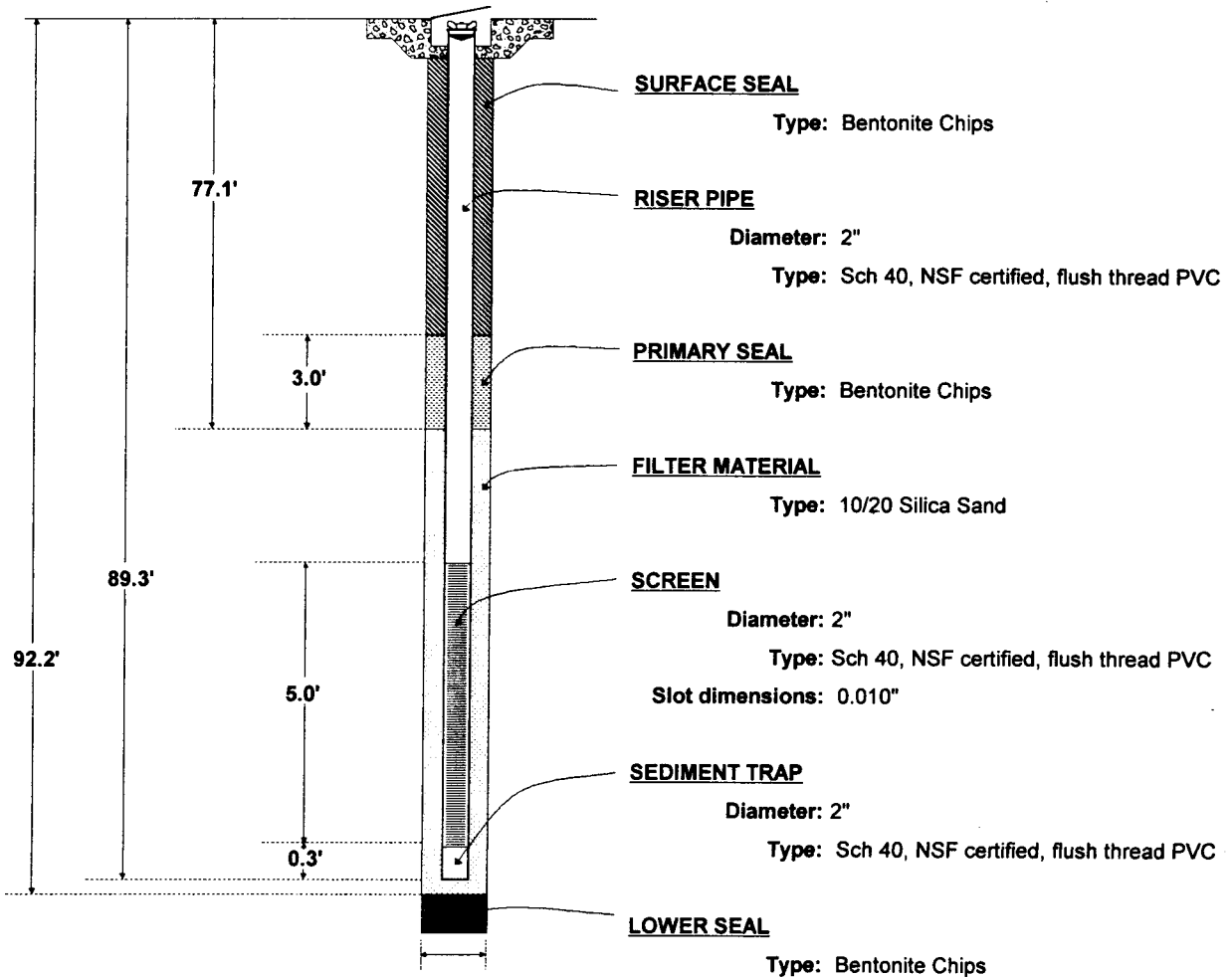




CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6123.0' E 4663.4'	TOP OF RISER ELEVATION (DATUM) 580.77 ft (NAVD 88)		DATE 08/24/07
STRATUM MONITORED Bass Islands Group Dolomite & Shale				
INSPECTOR Grainger <i>EM fc</i>		CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>

**SURFACE PROTECTION**

Type: Flush Mount  
 Top of Riser: 580.77 (ft) (NAVD 88)  
 Ground Surface: 581.0 (ft) (NAVD 88)



**BORING DIAMETER**

DIAMETER: 6": 0-30.7', 4.8": 30.7'-92.2'

*\*Note-Diagram not shown to scale*

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 131.0'-92.2'; set screen & riser pipe w/stainless steel centralizers; placed filter; surged filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:**



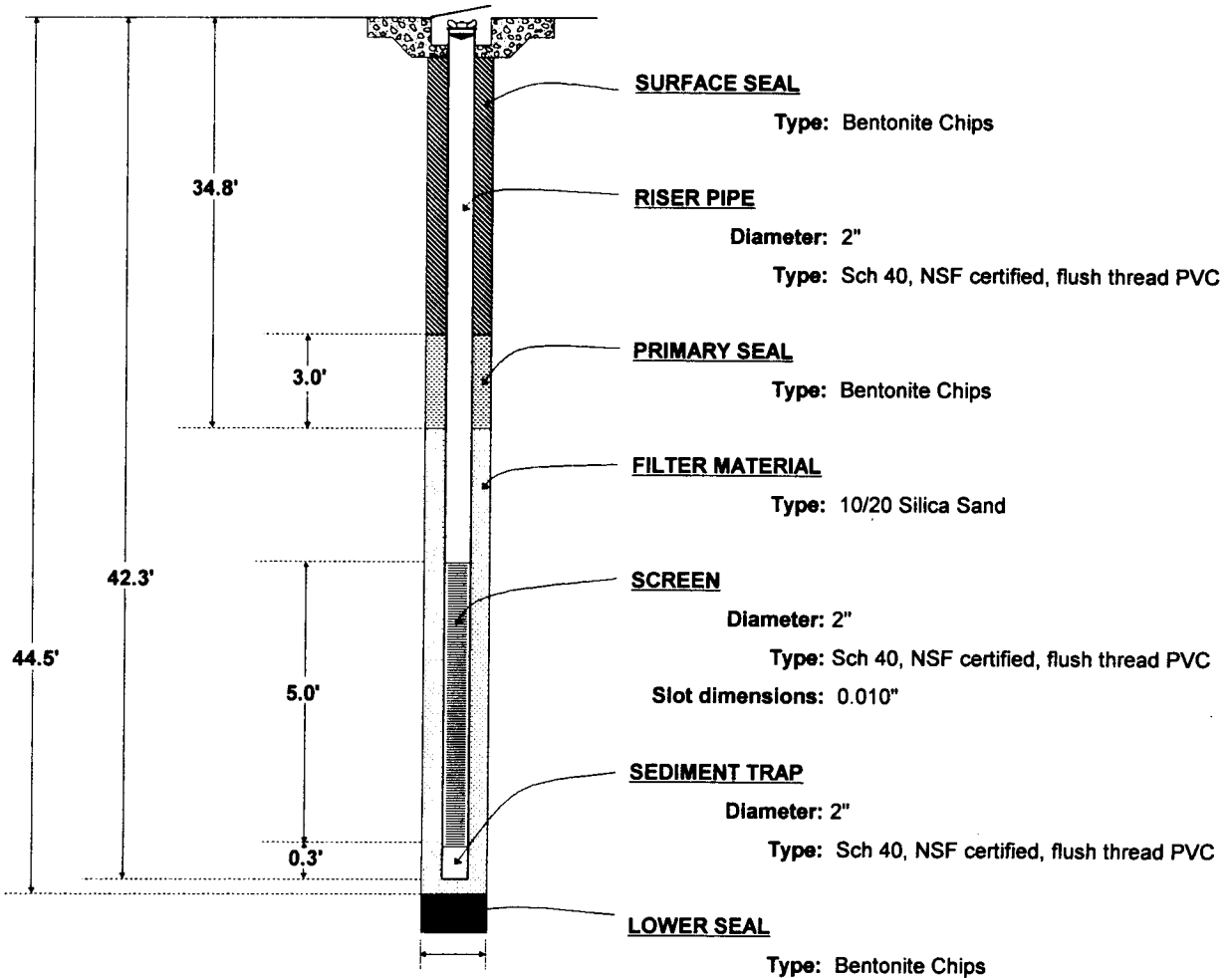
CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6579.3' E 4697.2'	TOP OF RISER ELEVATION (DATUM) 581.12 ft (NAVD 88)		DATE 09/11/07
STRATUM MONITORED Bass Islands Group Dolomite				
INSPECTOR Grainger <i>SM for</i>	CHECKED BY Meyer <i>EM</i>		APPROVED BY Meyer <i>EM</i>	

**SURFACE PROTECTION**

Type: Flush Mount

Top of Riser: 581.12 (ft) (NAVD 88)

Ground Surface: 581.4 (ft) (NAVD 88)



**BORING DIAMETER**

DIAMETER: 6": 0-30.5', 4.8": 30.5'-44.5'

\*Note-Diagram not shown to scale

**INSTALLATION METHOD:** Boring drilled to completion; placed lower bentonite seal from 50.5'-44.5'; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

**NOTES:**

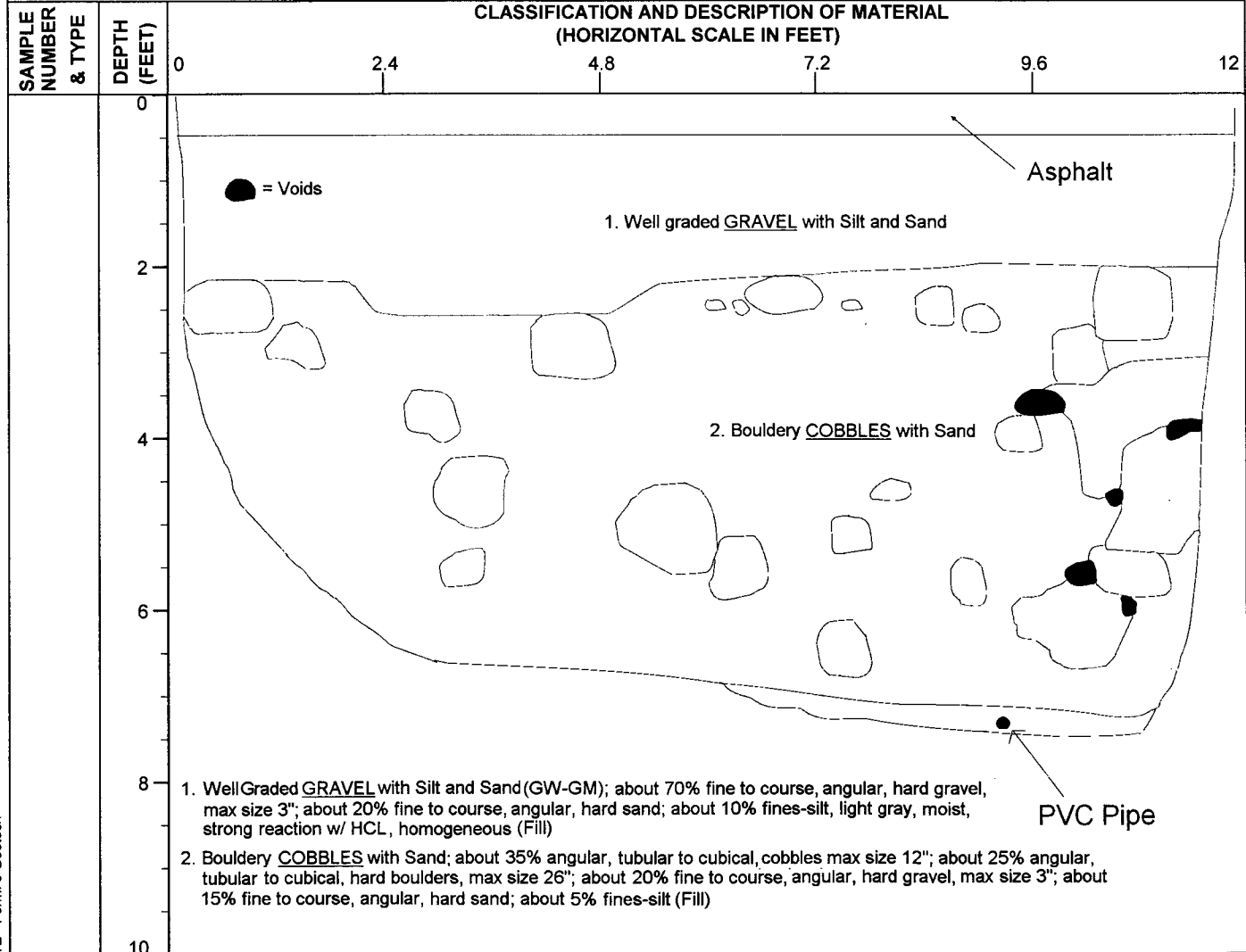
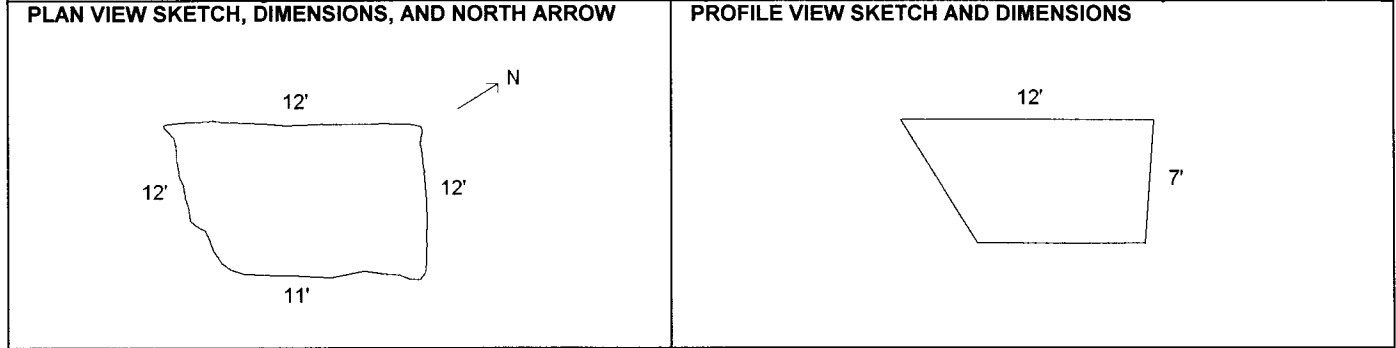


CLIENT - PROJECT Detroit Edison - Fermi 3 COL Application			PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6200' E 4780'	GROUND ELEVATION (DATUM) 581.4 ft (88)	DATE 08/25/07

SURFACE CONDITIONS  
Paved Parking Area

EXCAVATION METHOD  
Backhoe

INSPECTOR Grainger <i>CGG</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>
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REMARKS

Backfilled with excavated material.

5/28/2008 2:55 PM DTE - Fermi 3 Geotech