

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(d)	- 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

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, Michigan					N 5304.6'					E 1843.0'					579.8 ft (NAVD 88)		99.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Grass covered area adjacent to woods										Plant					05/19/07		05/21/07				
SAMPLING					LOGGED BY					CHECKED BY					APPROVED BY						
					Grainger/Deeken					Dogbey/Meyer					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				TOPSOIL			Boring advanced w/vacuum excavation.						
								1		579		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		578											
								3		577											
								4		576											
								5		575											
								6		574					Water encountered @ 5.5'						
								7		573					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		8		572											
TW	2					0.3		9		571		grades w/some gravel, maximum size 2" @ 8.5'									
								10		570		grades very hard, high toughness @ 9.5'									
SPT	3	10	22	22	44	1.4		11		569											
SPT	4	16	17	10/0	27	0.5		12		568					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.						
PQ	1	2.0	2.0	1.2	100	60		13		567		DOLOMITE; light gray; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group).									
								14		566		90°,J,N,Ci,Pa,Ir @ 12.0-12.8', 13.4-13.6'									
								15		565		2" clay band @ 13.4' joints healed from 12.6-13.6' 0°,B,N,Ci,Pa,Pl,SR @ 12.5', 13.4', 13.5', 13.6', 14.3', argillaceous @ 14.5-15.5'									

**BLACK & VEATCH****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' E 1843.0'										GROUND ELEVATION (DATUM) 579.8 ft (NAVD 88)		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 Grainger/Deeken										CHECKED BY Dogbey/Meyer		APPROVED BY Meyer																										
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																										
PQ 2 5.0 5.0 3.4 100 68							15						90°, J, VN, No, PI, R @ 15.4-16.0'	No drill water return @ 17.8'																																		
							16						fractured @ 16.8-17.3'																																			
							17						0°, B, N, CI, Pa, PI, SR @ 15.9', 16.8', 17.3', 17.6'																																			
							18						90°, J, VN, No, PI, R @ 18.4-19.6'																																			
PQ 3 5.0 5.0 2.3 100 46							19					0°, B, N, CI, Pa, PI, SR @ 19.4', 19.9'	Core box #2 starts @ 21.7'																																			
							20							90°, J, VN, No, PI, R @ 20.2-21.2'																																		
							21							0°, B, N, CI, Pa, PI, SR @ 20.6', 20.8', 21.0'																																		
							22							80°, J, N, CI, Pa, PI, SR @ 21.3'																																		
PQ 4 5.0 5.0 2.1 100 42							23					0°, B, N, CI, Pa, PI, SR @ 21.7'	DOLOMITE; argillaceous; very fine grained; moderately weathered; strong; moderately hard; thin bedded; (Bass Islands Group). highly fractured @ 25.8-26.4'																																			
							24							0°, B, N, CI, Pa, PI, SR @ 23.5'																																		
							25							0°, B, N, CI, Pa, PI, SR @ 24.0'																																		
							26							30°, J, N, CI, Pa, PI, SR @ 24.8', 25.2', 25.8'																																		
							27					30°, J, N, CI, Pa, PI, SR @ 26.4', 27.0', 27.5'	vugs to 3/4" @ 29.5'																																			
							28							0°, B, N, CI, Pa, PI, SR @ 28.2'																																		
							29							30°, J, N, CI, Pa, PI, SR @ 29.0'																																		
							30							30°, J, N, CI, Pa, PI, SR @ 30.0'																																		

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



BLACK & VEATCH

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' E 1843.0'										GROUND ELEVATION (DATUM) 579.8 ft (NAVD 88)										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 Grainger/Deeken										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																																															
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																							
PQ 8 5.0 5.0 2.6 100 52										45										534																				weathered; moderately strong; moderately hard; (Bass Islands Group). 0°, J, N, Cl, Pa, PI @ 44.9' 2" black shale band @ 45.1' 0°, J, N, Cl, Pa, PI @ 45.5', 45.6', 45.7', 46.1', 46.5', 46.7' 90°, J, N, Qz, Pa, PI @ 46.7-48.1' (healed)																																					
										46										533																				DOLOMITE; gray; very fine grained; slightly weathered; strong; hard; (Bass Islands Group). 0°, J, N, Cl, Pa, PI @ 48.0'																																					
										47										532																																																									
										48										531																																																									
										49										530																				0°, B, N, Cl, Pa, PI @ 49.1' 10°, J, N, Cl, Pa, PI @ 49.9'										Core box #5 starts @ 49.0'																											
PQ 9 5.0 5.0 2.4 100 48										50										529																				10°, J, N, Cl, Pa, PI @ 50.7' 0°, B, N, Cl, Pa, PI @ 51.1' vugs to 1/2" @ 51.3-52.8' 10°, J, N, Cl, Pa, PI @ 51.3'																																					
										51										528																				0°, B, N, Cl, Pa, PI @ 52.0' 0°, B, N, Cl, Pa, PI @ 52.5' 1/4" black shale band @ 52.7' highly fractured @ 53.0-54.1' 10°, J, N, Cl, Pa, PI @ 53.3', 53.4'																																					
										52										527																																																									
										53										526																																																									
										54										525																				90°, J, N, Cl, Pa, PI @ 54.5-55.8'																																					
										55										524																				10°, B, N, Cl, Sp, PI @ 55.7' 10°, B, N, Cl, Sp, PI @ 56.2', 56.4', 56.7'																																					
PQ 10 5.0 5.0 2.6 100 52										56										523																																																									
										57										522																				10°, B, N, Cl, Sp, PI @ 57.7'																																					
										58										521																																																									
										59										520																				80°, J, N, H, Pa @ 59.2-60.2' 0°, B, N, No, No, PI, R @ 59.5', 59.8' highly fractured @ 59.5-59.9'										Core box #6 starts @ 59.0'																											
										60																																																																			

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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BLACK & VEATCH

BORING LOG

BORING NO. MW-381D

SHEET 6 OF 7

CLIENT		PROJECT		PROJECT NO.							
Detroit Edison		Fermi 3 COL Application		147483							
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)							
Monroe, Michigan		N 5304.6' E 1843.0'		579.8 ft (NAVD 88)							
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START							
Grass covered area adjacent to woods		Plant		05/19/07							
SAMPLING		LOGGED BY		CHECKED BY							
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		Grainger/Deeken		Dogbey/Meyer							
CORING		APPROVED BY		REMARKS							
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD RECOVERY PERCENT RECOVERY RQD		Meyer									
DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)							
GRAPHIC LOG		CLASSIFICATION OF MATERIALS									
PQ	14	5.0	5.0	1.0	100	20	75			highly fractured @ 75.9-78.4'	
							76	504		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'	
							77	503		gray clay band @ 77.0-77.4'	
							78	502			
							79	501		0° B,N,CI,Sp,PI @ 79.3'	Core box #8 starts @ 79.0'
PQ	15	5.0	5.0	3.1	100	62	80	500		fissile @ 79.7-80.6'	
							81	499		0° B,N,CI,Sp,PI @ 79.8'	
							82	498		0° B,N,CI,Sp,PI @ 80.3', 80.6'	
							83	497		0° B,N,CI,Sp,PI @ 81.3', 81.4'	
							84	496		60° J,N,CI,Sp,PI @ 81.8'	
							85	495		0° B,N,CI,Sp,PI @ 82.8'	
PQ	16	5.0	5.0	2.8	100	56	86	494		DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; (Bass Islands Group). 0° B,N,CI,Sp,PI,SR @ 84.6'	
							87	493		0° B,N,CI,Sp,PI,SR @ 85.2', 85.8'	
							88	492		0° B,N,CI,Sp,PI,SR @ 86.2'	
							89	491		0° B,N,CI,Sp,PI,SR @ 86.9'	
							90	490		0° B,N,CI,Sp,PI,SR @ 88.0', 88.1'	
										90° J,VN,CI,Su,PI,Ir,Sr @ 88.7-88.9'	Core box #9 starts @ 89.0'
										0° B,N,CI,Sp,PI,SR @ 88.9'	
										0° B,N,CI,Sp,PI,SR @ 89.6'	

**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' E 1843.0' 579.8 ft (NAVD 88)										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 Grainger/Deekery										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> </tr> <tr> <th>CORE SIZE</th> </tr> <tr> <th>RUN NUMBER</th> </tr> <tr> <th>RUN LENGTH</th> </tr> <tr> <th>RUN RECOVERY</th> </tr> <tr> <th>RQD</th> </tr> <tr> <th>PERCENT RECOVERY</th> </tr> <tr> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																												
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DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																														
PQ 17 5.0 5.0 2.7 100 54										90 489 91 488 92 487 93 486 94 485 95 484 96 483 97 482 98 481 99 480 100 479 101 478 102 477 103 476 104 475 105										90° J,N,No,No,Pl,R @ 89.7-90.8' 0° B,N,Cl,Sp,Pl,SR @ 90.2', 90.7' 0° B,N,Cl,Sp,Pl,SR @ 91.3' 90° J,N,No,No,Pl,R @ 92.3-93.1' highly fractured @ 92.8-93.1' 0° B,N,Cl,Sp,Pl,SR @ 92.8', 92.9' 0° B,N,Cl,Sp,Pl,SR @ 93.3' 0° J,MW,Qz Pa,Pl,R @ 94.0' 0° B,N,Cl,Sp,Pl,SR @ 94.3' grades vuggy to 1/2" @ 95.0' 0° J,MW,Qz Pa,Pl,R @ 97.5' 0° J,MW,Qz Pa,Pl,R @ 98.6'										Bottom of boring @ 99.0'. Water level not recorded @ completion of drilling. Monitoring well installed 06/04/07.																					

BLACK & VEATCH

BORING LOG

BORING NO. MW-381S

SHEET 1 OF 1

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, Michigan					N 5306.7'					E 1838.4'					579.9 ft (NAVD 88)		9.5 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Grassy area next to Fermi Drive										Plant					05/19/07		05/29/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Onlmacher/Deeken					Emfa Dogbey					Meyer Em	
CORING										DEPTH (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									
							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'		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>GC0</i> Grainger/Ohlmacher		CHECKED BY <i>GC0</i> Dogbey/Ohlmacher		APPROVED BY <i>EM</i> Meyer				
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
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			
							2		580			
							3		579			
							4		578			
S	2		5.0			4.3	5		577		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).	Discrete sample collected from S1 @ 4.6-5.0'.
							6		576			
							7		575			
							8		574			
							9		573			
S	3		10.0			5	10		572		1/4" thick layer of wood @ 11.6'	Discrete sample collected from S2 @ 7.8-8.2'.
							11		571			
							12		570			
							13		569			
							14		568			
							15		568		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.	Discrete sample collected from S3 @ 14.7-15.0'.
									569	PEAT (PT) - Grayish black; wet; fibrous, organic material.		
									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;		

**BLACK & VEATCH****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'		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>600</i> Grainger/Ohlmacher		CHECKED BY <i>600</i> Dogbey/Ohlmacher		APPROVED BY <i>Em</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CORING		REMARKS		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS
S	4		15.0			5.0	15		567		homogeneous; (Lacustrine Deposit).
							16		566		Lean <u>CLAY</u> (CL) - About 95% low plasticity, high toughness, no dilatancy, medium to high dry strength fines; about 5% fine to coarse, subrounded, hard sand; yellowish brown & brownish yellow mottled; firm; moist; strong reaction w/HCl; lensed/laminated; (Glacial Till).
							17		565		
							18		564		Discrete sample collected from S4 @ 17.7-18.1'.
							19		563		Lean <u>CLAY</u> 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		Lean <u>CLAY</u> 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).
							22		560		
							23		559		Discrete sample collected from S5 @ 22.8-23.2'.
							24		558		Lean <u>CLAY</u> 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).
							25		557		
							26		556		
							27		555		<u>DOLOMITE</u> ; vuggy; gray; micritic; slightly weathered; strong; moderately hard; banded; 10% vugs; close joints; (Bass Islands Group).
							28		554		
							29		553		highly fractured @ 29.0-29.4'
							30				15°, J, VN, T, No, No, St, R @ 29.7'

**BLACK & VEATCH****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' E 3435.7'										GROUND ELEVATION (DATUM) 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>GEO</i> Grainger/Ohlmacher										CHECKED BY <i>GEO</i> Dogbey/Ohlmacher										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																		
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		549		0°, J, VN, No, No, PI, SR @ 32.6'																												
PQ	2	5	5	4.8	100	96	34		548																														
							35		547		0°, J, VN, No, No, PI, SR @ 35.1'										about 35% drill water return around 35'																		
							36		546		0°, J, VN, No, No, PI, R @ 35.4'																												
			36.0				37		545		brown weathering of dolomite near joint																												
							38		544		grades brownish gray @ 37.6'																												
PQ	3	5	4.2	3.9	84	78	39		543		25°, J, VN, No, No, St, R @ 38.4-38.6'										Core box #2 starts @ 38.5'																		
							40		542		grades gray @ 39.1'																												
							41		541		35°, J, VN, No, No, PI, R @ 40.0-40.2'										No drill water return @ 40.0'																		
							42		540		60°, J, VN, Ca, Pa, PI, SR @ 40.3-40.5'																												
			41.0				43		539		dark gray shale partings @ 41.0-41.4'																												
							44		538		highly fractured @ 41.1-41.4'																												
							45		538		highly fractured @ 41.8-41.9'																												
PQ	4	5	5	2.4	100	48	46		537		0°, J, T, No, No, St, SR @ 43.0'																												
							47		536		90°, J, T, No, No, PI, SR @ 43.1-46.0'																												
							48		535		0°, B, VN, No, No, PI, S @ 43.7'																												
							49		534		highly fractured @ 44.1-44.7'																												
							50		533		grades mottled light gray-dark gray; dark gray is staining along tight fractures, no vugs @ 44.4'																												

**BLACK & VEATCH****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' E 3435.7'										GROUND ELEVATION (DATUM) 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</i> Grainger/Ohlmacher										CHECKED BY <i>GLO</i> Dobey/Ohlmacher										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									
CORING																															
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																									
								45		537																					
								46		536																					
								47		535																					
PQ	5	5	5	4.6	100	92		48		534																					
								49		533																					
								50		532																					
								51		531																					
PQ	6	4	3.1	0	78	0		52		530																					
								53		529																					
								54		528																					
								55		527																					
PQ	7	1	1	1	100	100		56		526																					
								57		525																					
								58		524																					
PQ	8	5	4.9	3.3	98	66		59		523																					
								60																							

6/4/2008 4:27 PM DTE-Fermi 3

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'

0°,J,VN,No,No,PI,SR @ 47.9'

shale parting - 0°,B,VN,PI,SR @ 48.5'

10°,J,VN,No,No,PI,SR @ 49.3'
90°,V,VN,Ca,Fi,PI,SR @ 49.4-49.8

highly fractured @ 50.2-50.4'

highly fractured, loose fragments, no cementing @
51.0-52.2'90°,J,VN,No,No,PI,SR @ 52.1-54.1', 52.1-53.0' (2
parallel joints)grades brownish gray, some fossil fragments & oolites
@ 53.3'highly fractured w/calcite infill up to 0.5" thick @ 54.0-
54.5'highly fractured; not cemented @ 54.5-54.8'
grades gray, 10% vugs, no fossils, no oolites @ 54.8'

10°,J,VN,No,No,PI,SR @ 56.2'

10°,J,VN,No,No,PI,SR @ 58.2'
90°,J,T,No,No,PI,SR @ 58.5-59.8'
highly fractured @ 58.7-59.1'DOLOMITE; oolitic; brownish gray; very fine grained;
slightly weathered; strong; moderately hard; banded;Mechanically
broken @ 45.5-
46.0' when
removed from
the barrelCore box #3
starts @ 47.9'Drill water return
<25% @ about
50'Core box #4
starts @ 58.0'

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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**BLACK & VEATCH****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		
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY				LOGGED BY Grainger/Ohlmacher		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer		
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				
					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	78	504	highly fractured, loose @ 78.5-78.6'			
					79	503				
					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'			
			81.0		81	501				
					82	500	highly fractured, very close spacing, loose; @ 81.8-85.6'			
PQ	13	5	4.4	0.0	83	499	90°, J, T, No, No, PI, SR @ 82.6-84.0', 84.4-85.3'			
					84	498				
					85	497	SHALE; dark gray to black; slightly weathered; weak; moderately hard; (Bass Islands Group).			
			86.0		86	496	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'			
PQ	14	5	5.0	2.0	89	493	30°, J, T, No, No, Ir, R @ 88.4-88.6'			
					90		30°, J, T, No, No, Ir, R @ 89.0-89.3'			
							15°, J, T, Cl, Pa, PI, S @ 89.8'			

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**BLACK & VEATCH****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	
SAMPLING				LOGGED BY <i>GLO</i> Grainger/Ohlmacher		CHECKED BY <i>GLO</i> Dogbey/Ohlmacher		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)
CORING							GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD			
PQ	15	5	5.0	2.2	100	44	90		492
			91.0				91		491
							92		490
							93		489
							94		488
							95		487
			96.0				96		486
PQ	16	2.5	2.5	1.3	100	52	97		485
							98		484
			98.5				99		483
PQ	17	2.5	2.0	0.0	80	0	100		482
							101		481
							102		480
							103		479
							104		478
							105		478

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Bottom of boring @ 101'. Water level @ 15.6' @ completion of drilling. Monitoring well installed on 05/31/07.

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BORING LOG

BORING NO. MW-383S

SHEET 1 OF 2

CLIENT						PROJECT						SHEET 1 OF 2					
Detroit Edison						Fermi 3 COL Application						PROJECT NO. 147483					
PROJECT LOCATION Monroe, Michigan			COORDINATES N 5809.1'			GROUND ELEVATION (DATUM) E 3432.7'			582.4 ft (NAVD 88)			TOTAL DEPTH 16.5 (feet)					
SURFACE CONDITIONS Grassy field						COORDINATE SYSTEM Plant			DATE START 05/16/07			DATE FINISHED 05/16/07					
LOGGED BY Ohlmacher						CHECKED BY 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											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD											
SPT	1	3	3	3	6	1	0	582									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	577										
SPT	3	5	4	4	8	0.2	572										Gravel blocked split-spoon for SPT-3.
SPT	4	2	3	3	6	0.3	570										Gravel blocked split-spoon for SPT-4.
SPT	5	WOH	3	3	6	1.5	569										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' E 3432.7'										GROUND ELEVATION (DATUM) 582.4 ft (NAVD 88)										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>GLO</i>										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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
TW		6										1.7		15		567		15.5		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																																													
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														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' E 4402.8'					GROUND ELEVATION (DATUM) 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 Grainger/Ohlmacher					CHECKED BY Dobbey/Ohlmacher					APPROVED BY Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET	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																		
S	1					3.8		0		581		ORGANIC Soil (OL/OH) - About 90% fines; about 10% fine organics; very dark brown; (Fill).	Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.											
								1		580														
								2		579		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).												
								3		578		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).												
								4		577														
								5		576														
			5.0					6		575		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).												
								7		574														
								8		573														
								9		572														
								10		571														
			10.0					11		570														
								12		569														
								13		568														
								14		567														
S	3					3.0		15																

BLACK & VEATCH

BORING LOG

BORING NO. MW-384D

SHEET 2 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	

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-384D

SHEET 3 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 Grainger/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						
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
S	7		30.0			2.5	30		551			
							31		550			
							32		549			
PQ	1	3.0	33.0	1.6	0.6	53	33		548		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; <5% vugs; (Bass Islands Group). highly fractured, very closely spaced joints @ 34.0-34.5' 80°, J, T, No, No, PI, SR @ 34.5-34.8', 35.5-35.7' 0°, J, VN, No, No, PI, SR @ 35.1', 35.3', 35.5'	Set nominal 6" temporary steel casing to 33.0'. Below 33.0' continued w/triple tube wire line core barrel using water as drilling fluid. Core box #1 starts @ 33.0'.
							34		547			
							35		546			
PQ	2	5.0	36.0	4.6	2.6	92	36		545		80°, J, T, No, No, PI, SR @ 36.3-36.6' grades 40% vugs w/5% calcite fill @ 36.6' 0°, J, VN, No, No, PI, SR @ 36.6' grades 10% vugs w/no fill @ 37.1' 60°, J, VN, No, No, PI, SR @ 37.3-37.5'	
							37		544			
							38		543		25°, J, VN, No, No, WA, R @ 38.2' fractured, very closely spaced joints @ 38.6-38.7'	
							39		542		85°, J, T, No, No, PI, SR @ 39.0-41.1'	
							40		541		grades dark gray, w/thin shale beds @ 40.1'	
							41		540		DOLOMITE; oolitic; brownish gray; very fine grained; slightly weathered; strong; moderately hard; banded; 20% vugs; (Bass Islands Group). 0°, B, VN, No, No, PI, S @ 41.2'	
							42		539			
PQ	3	5.0	41.0	4.9	3.5	98	43		538		25°, J, T, No, No, St, SR @ 43.0-43.2'	
							44		537		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; banded; (Bass Islands Group). fractured, very closely spaced joints @ 43.9-44.0'	
							45					

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**BLACK & VEATCH****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				
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						
CORING												
			46.0				45		536		45° J,T,No,No,PI,SR @ 44.2-44.4'	
							46		535		0° B,VN,No,No,PI,S @ 44.6', 44.9', 45.3', 45.4', 45.7', 46.5'	
							47		534		grades interbedded w/shale bands, about 0.2' spacing @ 44.7'	
PQ	4	5.0	5.0	4.3	100	86	48		533		70° J,No,No,PI,SR @ 46.0-46.3'	
							49		532		0° B,VN,No,No,PI,S @ 47.8', 48.0'	
							50		531		grades w/shale partings @ 48.2'	
							51		530		0° B,VN,No,No,PI,S @ 48.6', 48.9', 49.3'	
			51.0				52		529		highly fractured, very closely spaced, irregular joints @ 50.0-50.4'	
							53		528		20° J,VN,No,No,PI,SR @ 50.1'	
PQ	5	5.0	5.0	4.1	100	82	54		527		bedding dips 30° @ 50.3'	
							55		526		50° J,T,No,No,PI,SR @ 50.5-51.0' (3 parallel joints)	
							56		525		grades 20% vugs @ 51.2'	
							57		524		highly fractured, very closely spaced joints @ 51.2-51.5'	
							58		523		highly fractured, gravelly @ 52.1-52.3'	
							59		522		highly fractured, very closely spaced joints @ 52.9-53.1'	
PQ	6	5.0	4.6	3.5	92	70	60				75° J,VN,No,No,PI,SR @ 53.5-54.0'	
											grades 10% vugs @ 54.0'	
											10° J,VN,PI,SR @ 54.0'	
											70° J,VN,No,No,PI,SR @ 55.0-55.3'	
											40° J,VN,No,No,PI,SR @ 55.2-55.4'	
											grades brecciated, indurated, w/stylolites @ 56.2'	
											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'	
											0° B,VN,No,No,PI,S @ 58.7', 59.8'	
											45° J,T,No,No,PI,SR @ 59.3-59.7'	
											fractured, very closely spaced joints @ 59.4-59.7'	

Core box #2 starts @ 48.0'.

Core box #3 starts @ 58.1'.

Drill stem dropped about 0.5' @ 59'.

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																													
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										7					5.0					5.0					3.4					100					68														
																				61.0																													

**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'		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>GRO</i> Grainger/Ohlmacher		CHECKED BY <i>GRO</i> Dogbey/Ohlmacher		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
CORING												
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'	
							80		501		0°, B, VN, No, No, PI, S @ 78.6'(2 parallel joints), 78.9', 79.6'	
							81		500		fractured, closely spaced joints @ 79.2-79.4'	
			81.0				82		499		70°, J, T, No, No, PI, SR @ 79.9-80.6'	
							83		498		0°, B, VN, No, No, PI, S @ 80.1'	
PQ	11	5.0	4.4	1.0	88	20	84		497		highly fractured, very closely spaced joints @ 80.3-80.7'	Some core loss @ 81.2-82.2'
							85		496		highly fractured, very closely spaced joints @ 81.2-82.2'	
							86		495		highly fractured, very closely spaced joints @ 82.4-82.7'	
							87		494		0°, B, VN, No, No, PI, S @ 82.9', 83.5'	
							88		493		highly fractured, very closely spaced joints @ 82.4-84.7'	
							89		492		90°, J, T, No, No, PI, SR @ 84.7-85.6'	
							90				highly fractured, closely spaced joints @ 85.0-85.4'	
			86.0								fractures, very closely spaced joints @ 85.7-86.0'	
											50°, J, T, No, No, PI, SR @ 85.7-86.6'	
											highly fractured, very closely spaced joints, some clay fill @ 86.9-87.1'	
											80°, J, T, No, No, PI, SR @ 87.2-87.6'	
											highly fractured, very closely spaced joints @ 87.6-88.1'	
PQ	12	5.0	4.2	0.7	84	14					50°, J, T, No, No, PI, SR @ 87.8-88.1'	
											25°, J, T, No, No, PI, SR @ 88.2', 90.5'	
											0°, B, T, No, No, PI, S @ 88.6'	
											85°, J, T, No, No, WA, SR @ 88.6-89.7'	
											highly fractured, very closely spaced joints @ 89.1-89.7'	



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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' E 4402.8'										GROUND ELEVATION (DATUM) 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. Grainger/Ohlmacher</i>										CHECKED BY <i>7.1.10 Dogbey/Ohlmacher</i>										APPROVED BY <i>fen Meyer</i>																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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									
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																														75°, J, T, No, No, PI, SR @ 89.7-90.4'										Core box #7 starts @ 94.2'.																																		
																				91																														90°, J, T, Ca, Sp, PI, SR @ 91.0-96.0'																																												
																				92																														grades slightly brownish gray @ 92.0'																																												
																				93																																																																										
PQ										13										5.0										5.0										4.6										100																				92																								
																				94																																																																										
																				95																																																																										
																				96																																																		gravel-size fragments @ 96.0-98.2'																								
																				97																																																																										
																				98																																																		90°, J, No, No, PI, SR @ 98.2-99.4'																								
																				99																																																																										
																				100																																								40°, J, T, No, No, PI, R @ 99.2-99.5'																																		
																				101																																								90°, J, T, No, No, PI, SR @ 99.5-99.9'																																		
																				102																																																																										
																				103																																																																										
																				104																																																																										
																				105																																																																										
																																																																						Bottom of boring @ 101.0'. Water level @ 15.8' @ completion of drilling. Monitoring well installed on 05/31/07.																								

**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' E 4403.9'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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>fed</i>										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	1	WOH	2	5	7	1.5	0		581		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/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer. PP=0.75 TSF PP=3.0 TSF																		
							1		580		grades firm, less organics @ 2.5'																												
							2		579																														
							3		578																														
							4		577																														
							5		576		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).																												
SPT	2	7	5	4	9	1.0	6		575																														
							7		574																														
							8		573																														
							9		572																														
							10		571																														
SPT	3	WOH	1	1	2	0.2	11		570																														
							12		569																														
							13		568																														
							14		567																														
							15																																

**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' E 4403.9'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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>6-06</i>										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																																																	
TW		4										1.4		15		566		565		564		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		563		562		561																						Bottom of boring @ 17.0'. Water level @ 9.3' @ completion of drilling. Monitoring well installed on 05/18/07.																			
														17		560		559		558																																									
														18		557		556		555																																									
														19		554		553		552																																									
														20																																															
														21																																															
														22																																															
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														27																																															
														28																																															
														29																																															
														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' 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																															
SAMPLING										LOGGED BY <i>Grainier/Deeken</i>					CHECKED BY <i>Dogbey/Meyer</i>					APPROVED BY <i>Meyer</i>																										
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="7">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	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																																								
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		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'.																																		
							6		576																																					
							7	X	575																																					
							8		574																																					
							9		573																																					
							10		572		Grab sample @ 12.5'.																																			
							11		571																																					
							12		570																																					
							13	X	569																																					
							14		568																																					
							15		567																																					

6/11/2008 9:18 AM DTE-Fermi 3



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' E 5203.8'				GROUND ELEVATION (DATUM) 582.3 ft (NAVD 88)				
SURFACE CONDITIONS Level, grassy				COORDINATE SYSTEM Plant				DATE START 05/19/07				
								DATE FINISHED 06/06/07				
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Dogbey/Meyer				
								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						
GP	3		15.0			5.0	15		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).	
							16		566			
							17		565			
							18	X	564			Grab sample @ 18.0'.
							19		563			
							20		562		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.
							21		561			
							22	X	560			Grab sample @ 22.0'.
							23		559			
							24	X	558		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'
							25		557			
							26		556		grades w/ gravel w/max. size 3" @ 26.5'	
							27		555		DOLOMITE; gray; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group). highly fractured @ 26.5-28.5'	
							28		554			
							29		553		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
							30					



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' E 5203.8'										GROUND ELEVATION (DATUM) 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																																																																																																																																																																																													
SAMPLING										LOGGED BY Grainger/Deeken										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer																																																																																																																																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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																																																																																																																							
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										5.0										2.1										100										42										30										552																				85°, J, N, Cl, Pa, Pl, 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, Pl, SR @ 34.3', 34.8', 35.1', 35.6', 36.5', 37.0', 38.5' 5°, J, N, Cl, Pa, Pl, SR @ 35.5', 35.8', 36.1', 36.4', 36.9' DOLOMITE; argillaceous; light gray; micritic; moderately weathered; strong; moderately hard; (Bass Islands Group).																																																																																																																							
																																																																						34										548																																																																																																																																											
																																																																																35																														547																																																																																																													
PQ										3										5										5.0										2.8										100										56										36										546																				80°, J, N, Ca, Pa, Pl, SR @ 38.1-39.8' 2" black clay band @ 39.9' DOLOMITE; light gray; very fine grained; slightly weathered; strong; hard; vugs to 1/2"; (Bass Islands Group).																																																																																																																							
																																																																																37																														545																																																																																																													
																																																																																																														38										544																																																																																																			
																																																																																																																																		39										543																				Core box #2 starts @ 38.5'.																																																											
																																																																																																				40										542																																																																																																													
																																																																																																														41										541																																																																																																			
																																																																																																																																																																42										540																																																	
																																																																																																																																		43										539																																																																															
																																																																																																																																												44										538																																																																					
																																																																																																																																																																																																								45										537									

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**BLACK & VEATCH****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' E 5203.8'										GROUND ELEVATION (DATUM) 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									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Grainger/Decker										CHECKED BY Dogbey/Meyer										APPROVED BY Meyer	
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	
PQ 4 5 5.0 3.3 100 66										45 537										15°, J, MW, CI, Sp, PI, VR @ 45.2', 46.1'										Core box #3 starts @ 46.3'.	
										46 536										vugs to 1/2" @ 46.1-48.0' 3" argillaceous inclusion @ 46.6'											
										47 535										1" voids infilled w/calcite @ 47.7-48.3'											
										48 534										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' 75°, J, N, CI, Pa, PI, Slk @ 50.0' 15°, J, N, CI, Sp, PI, SR @ 50.7'											
PQ 5 5 4.9 1.2 98 24										49 533										black shale seam @ 50.0' brecciated; healed @ 50.2-50.8'											
										50 532										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'											
										51 531																				25% drill water return @ 54.0'. Core box #4 starts @ 54.8'.	
										52 530																					
										53 529																					
										54 528										variable brecciation; healed @ 54.4-58.4'											
PQ 6 5 5.0 2.9 100 58										55 527										highly fractured @ 55.2-55.7'											
										56 526										highly fractured @ 56.3-56.9'											
										57 525																					
										58 524										70-80°, B @ 59.1-60.5' (intact bedding planes)											
										59 523										60°, J, N, No, No, PI, S @ 58.8', 59.0', 60.3'											
										60																					



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	
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Dogbey/Meyer				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							
PQ	7	5	5.0	1.6	100	32	60		522				
							61		521				
							62		520				
							63		519				
			63.5				64		518				
							65		517				
PQ	8	5	5.0	2.5	100	50	66		516				
							67		515				
							68		514				
			68.5				69		513				
							70		512				
PQ	9	5	5.0	3.8	100	76	71		511				
							72		510				
							73		509				
			73.5				74		508				
							75		508				

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'

brecciation grades out @ 63.0'

brecciated @ 64.0-65.7' w/calcite inclusions

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

DOLOMITE; argillaceous; brown; micritic; slightly weathered; strong; hard; brecciated; healed; (Bass Islands Group).

5°, B, N, Cl, Pa, PI, SR @ 69.1', 69.4', 71.1', 71.5', 71.6', 72.0', 72.8', 73.3'

Core box #5 starts @ 63.5'.

Core box #6 starts @ 73.2'.

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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' E 5203.8'										GROUND ELEVATION (DATUM) 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									
SAMPLING										LOGGED BY Grainger/Deeken										CHECKED BY Dogbey/Meyer										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																																	
PQ	10	5	5.0	5.0	100	100		75		507																													
								76		506																													
								77		505																													
								78		504																													
			78.5					79		503																													
								80		502																													
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																													
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6/11/2008 9:18 AM DTE-Fermi 3

Core box #7 starts @ 82.5'.



BORING LOG

BORING NO. MW-386D

SHEET 7 OF 7

6/11/2008 9:18 AM DTE-Fermi3

CLIENT										PROJECT										PROJECT NO.																			
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PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, Michigan					N 6343.9'					E 5203.6'					582.4 ft (NAVD 88)		22.0 (feet)																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																						
Grassy area next to parking lot										Plant					05/19/07		05/23/07																						
SAMPLING										LOGGED BY					CHECKED BY		APPROVED BY																						
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CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS					REMARKS												
														0				582				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.												
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SPT		1		1		1		3		4		0.2		6				576				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.												
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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' E 4150.1'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)				
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant				DATE START 05/17/07		DATE FINISHED 05/20/07		
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Meyer		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						
CORING							0				<p>BOULDERS - 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>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> <p>ORGANIC Soil (OL) s - About 100% low plasticity, low toughness, slow dilatancy, low dry strength fines; dark gray; soft; wet; no reaction w/HCl; w/ peat</p> <p>Lean CLAY (CL) - 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>	<p>Boring advanced w/vacuum excavation.</p>
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
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							11					
							12					
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							15					

**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' 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 Grainger/Deeken										CHECKED BY Meyer										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																																									
S		3				15.0						5.0		15				564		[Hatched Pattern]		grades very soft @ 16.0'																																							
S		4				20.0						5		16				563		[Hatched Pattern]		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). fine sand layer 18.0' - 18.2' grades dark yellowish brown @ 18.2'																				16.6																			
S		5				25.0						5		17				562		[Hatched Pattern]		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). dark gray & dark yellowish brown, laminated @ 22.0-23.0'																				20.0																			
S		5				25.0						5		18				561		[Hatched Pattern]		grades w/ gravel lenses & cobbles; angular																				Below 26' to 30.7' description based on photo review																			
S		5				25.0						5		19				560		[Hatched Pattern]																																									
S		5				25.0						5		20				559		[Hatched Pattern]																																									
S		5				25.0						5		21				558		[Hatched Pattern]																																									
S		5				25.0						5		22				557		[Hatched Pattern]																																									
S		5				25.0						5		23				556		[Hatched Pattern]																																									
S		5				25.0						5		24				555		[Hatched Pattern]																																									
S		5				25.0						5		25				554		[Hatched Pattern]																																									
S		5				25.0						5		26				553		[Hatched Pattern]																																									
S		5				25.0						5		27				552		[Hatched Pattern]																																									
S		5				25.0						5		28				551		[Hatched Pattern]																																									
S		5				25.0						5		29				550		[Hatched Pattern]																																									
S		5				25.0						5		30				549		[Hatched Pattern]																																									

**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'		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 Grainger/Deeken		CHECKED BY Meyer		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						
							30					
PQ	1	2.3	2.3	0.0	100	0	31		549		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.
							32		548			
							33		547		5°, J, N, CI, Sp, PI, SR @ 33.2', 33.8'	
							34		546			
PQ	2	5.0	5.0	2.0	100	40	35		545		90°, J, N, No, No, PI, SR @ 35.3-36.0' 5°, J, N, CI, Sp, PI, SR @ 35.4', 36.1'	
							36		544			
							37		543		5°, J, N, CI, Sp, PI, SR @ 37.2' grades thick bedded @ 37.5'	
							38		542		90°, J, N, No, No, PI, SR @ 39.4-40.0', 40.2-42.5'	
							39		541		5°, J, N, CI, Sp, PI, SR @ 38.5' grades light brown @ 38.5' 5°, J, N, CI, Sp, PI, SR @ 38.9'	
							40		540		90°, J, N, No, No, PI, SR @ 39.4-40.0'	
PQ	3	5.5	5.2	1.4	95	25	41		539		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		538		5°, J, N, CI, Sp, PI, SR @ 41.0' 0°, B, N, CI, Pa, PI, SR @ 40.0', 41.0'	
							43		537			
							44		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'	
							45		535			

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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' E 4150.1'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)				
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant				DATE START 05/17/07				
								DATE FINISHED 05/20/07				
SAMPLING				LOGGED BY Grainger/Deeken				CHECKED BY Meyer				
								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						
PQ	4	5.0	5.0	3.1	100	62	45		534		35°, J, VN, No, No, St, R @ 45.4'	
							46		533		0°, B, N, Cl, Pa, Pl, SR @ 45.7', 45.9'	
							47		532		90°, J, N, No, No, Pl, SR @ 45.7-45.9'	
							48				0°, B, N, Cl, Pa, Pl, SR @ 47.4', 47.6'	
			48.5				49		531		0°, B, N, Cl, Pa, Pl, SR @ 48.7', 49.2'	
							50		530		35°, J, VN, No, No, St, R @ 50.0'	Core box #3 starts @ 50.0'
PQ	5	5.0	5.0	2.8	100	56	51		529		0°, B, N, Cl, Pa, Pl, SR @ 51.0', 51.2', 51.3'	
							52		528		35°, J, VN, No, No, St, R @ 51.4', 51.9'	
							53		527		DOLOMITE; dark gray/brown; vuggy; very fine grained; moderately weathered; moderately hard; medium bedded; w/ calcite inclusions at 53.4'; (Bass Islands Group).	
							54		526		35°, J, VN, No, No, St, R @ 52.1', 52.5'	
			53.5				55		525		0°, B, N, Cl, Pa, Pl, SR @ 53.0'	
							56		524		2" black shale band @ 53.9'	
PQ	6	5.0	5.0	2.5	100	50	57		523		DOLOMITE; medium light gray; vuggy; very fine grained; slightly weathered; strong; moderately hard; (Bass Islands Group).	
							58		522		0°, B, MW, Cl, Pa, Pl, R @ 55.9', 56.1', 56.4', 56.6', 56.8', 56.9'	
							59		521		highly fractured @ 56.6-57.0'	
			58.5				60				0°, B, MW, Cl, Pa, Pl, R @ 57.1'	
											0°, B, MW, Cl, Pa, Pl, R @ 58.0'	
											highly fractured w/ black shale & calcite fragments @ 58.7-60.0'	

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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' E 4150.1'										GROUND ELEVATION (DATUM) 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 Grainger/Deeken <i>2D</i>										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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG																					REMARKS												
PQ	10	5.0	4.8	0.9	96	18	75		504		0°,B,N,Cl,Pa,Pl,SR @ 75.1' highly fractured @ 75.3-76.0'																				Core box #6 starts @ 78.5'												
							76		503		30°,J,N,Cl,Pa,Pl,R @ 76.4' 90°,J,N,Cl,Pa,Pl,R @ 75.1-75.3', 76.0-79.8'																																
							77		502		30°,J,N,Cl,Pa,Pl,R @ 77.5', 77.9' 0°,B,N,Cl,Pa,Pl,SR @ 77.6'																																
							78		501		0°,B,N,Cl,Pa,Pl,SR @ 78.8'																																
							79		500		0°,B,N,Cl,Pa,Pl,SR @ 79.3'																																
							80		499		60°,J,N,No,No,Pl,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,Cl,Pa,Pl,R @ 80.9'																																
							82		497		30°,J,N,Cl,Pa,Pl,R @ 81.9'																																
							83		496		30°,J,N,Cl,Pa,Pl,R @ 82.7'																																
							84		495		grades thick bedded @ 83.5'																																
PQ	12	5.0	5.0	4.8	100	96	86		494		30°,J,N,Cl,Pa,Pl,R @ 86.3'																				Core box #7 starts @ 88'.												
							87		493																																		
							88		492																																		
							89		491		0°,B,N,Cl,Pa,Pl,SR @ 88.4'																																
							90		490																																		



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' E 4150.1'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)				
SURFACE CONDITIONS Graveled area				COORDINATE SYSTEM Plant				DATE START 05/17/07				
				DATE FINISHED 05/20/07								
SAMPLING				LOGGED BY Grainger/Deeken <i>JD</i>				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						
PQ	13	5.0	5.0	1.5	100	30	90		489		0°,B,N,CI,Pa,PI,SR @ 90.2' 90°,J,N,CI,Pa,PI,R @ 90.6-92.3'	
							91		488		3" thick clay band @ 91.2'	
							92		487		0°,B,N,CI,Pa,PI,SR @ 92.3', 92.8', 93.1' 90°,J,N,CI,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,CI,Pa,PI,SR @ 93.4'	
PQ	14	3.5	3.3	1.0	94	29	95		484		60°,J,N,CI,Pa,PI,R @ 94.5'	
							96		483		60°,J,N,CI,Pa,PI,R @ 95.5'	Core barrel blocked @ 95.0'.
							97		482		0°,B,N,CI,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,CI,Pa,PI,SR @ 98.4' 60°,J,N,CI,Pa,PI,R @ 98.5'	Core box #8 starts @ 98.5'.
							99		480		1" thick clay band @ 98.5'	
			98.5				100		479		0°,B,N,CI,Pa,PI,SR @ 98.7', 99.0'	
PQ	16	5.0	5.0	3.2	100	64	101		478		argillaceous @ 101.0-102.1'	
							102		477		0°,B,N,CI,Pa,PI,SR @ 101.0', 101.2', 101.3'	Bottom of boring @ 103.5'. Water level not recorded. Monitoring well installed on 06/01/07.
							103		476		60°,J,N,CI,Pa,PI,R @ 103.0'	
							104		475			
							105					

5/20/2008 1:34 PM DTE-Fermi 3

**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' E 4148.2'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Duncan										CHECKED BY Dogbey/Meyer										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																			
														0								Undifferentiated Overburden See log for MW-387D																				Boring advanced w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Water encountered @ 6.5'																			
														1																																															
														2																																															
														3																																															
														4																																															
														5																																															
														6																																															
														7																																															
														8																																															
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														12																																															
														13																																															
														14																																															
														15								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;																																							

BLACK & VEATCH

BORING LOG

BORING NO. MW-387S

SHEET 2 OF 2

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, Michigan				N 6665.8' E 4148.2'				579.3 ft (NAVD 88)				16.2 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Mild slope, gravel surface, N 6.0' of MW-387D						Plant				05/31/07		05/31/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Duncan				E. J. Dogbey/Meyer		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							
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' E 2168.8'										GROUND ELEVATION (DATUM) 574.8 ft (NAVD 88)										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										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																														
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																						
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORING																																																											
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																						
SPT 1 2 3 3 6 0.8										0 574																																																																		
SPT 2 1 2 3 5 0.8										1 573																																																																		
SPT 3 1 2 3/4 5 1.3										2 572																																																																		
										3 571																																																																		
										4 570																																																																		
										5 569																																																																		
										6 568																																																																		
										7 567																																																																		
										8 566																																																																		
										9 565																																																																		
										10 564																																																																		
										11 563																																																																		
										12 562																																																																		
										13 561																																																																		
										14 560																																																																		
										15																																																																		

CLIENT										PROJECT										PROJECT NO.																											
Detroit Edison										Fermi 3 COL Application										147483																											
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																
Monroe, Michigan					N 7960.1'					E 4245.7'					578.9 ft (NAVD 88)		16.5 (feet)																														
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																														
Graveled area										Plant					05/16/07		06/01/07																														
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																											
										Grainger/Duncan					Dogbey/Meyer					Meyer																											
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		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS					REMARKS				

**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' E 4245.7'										GROUND ELEVATION (DATUM) 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>Granger/Duncan</i>										CHECKED BY <i>Dogbey/Meyer</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																																																	
TW		4				15.7						0.8		15																																															
														16		563																										TV = 1.6 TSF TW refusal @ 16.5'. Bottom of boring @ 16.5'. Monitoring well installed on 06/01/07. Water level @ 6.2' after completion of monitoring well.																			
														17		562																																													
														18		561																																													
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														28		551																																													
														29		550																																													
														30		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' E 5237.2'					GROUND ELEVATION (DATUM) 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>EM</i> Grainger/Duncan					CHECKED BY <i>EM</i> Meyer					APPROVED BY <i>EM</i> Meyer				
SAMPLE TYPE	SAMPLE NUMBER	SET	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																	
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								
							0				BOULDERS - 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).					Boring advanced w/vacuum excavation								
							1																	
							2																	
							3																	
S	1		3.0			0.0	4																	
							5																	
			5.0				6																	
							7																	
S	2					3.0	8																	
							9																	
							10																	
			10.0				11																	
							12																	
							13																	
S	3					3.5	14																	
							15																	




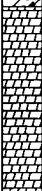


BLACK & VEATCH

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' E 5237.2'										GROUND ELEVATION (DATUM) 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>GA</i> Grainger/Duncan										CHECKED BY <i>EM</i> Meyer										APPROVED BY <i>EM</i> Meyer																																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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									
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																								
S										4										15.0										5.0										15										563																				grades boulders & glacial till mixture @ 15.0'										PP > 4.5 TSF @ 17.0-17.5'															
S										5										20.0										5.0										16										562																				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).																									
S										6										25.0										4.7										17										561																				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).																									
S										6										25.0										4.7										28										550																				DOLOMITE; gray; blocky; very fine grained; slightly weathered; very strong; hard; pitted; (Bass Islands Group).										PP > 4.5 TSF @ 23.0-24.0'															

**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' E 5237.2'										GROUND ELEVATION (DATUM) 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 Grainger/Duncan										CHECKED BY Meyer										APPROVED BY Meyer									
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																	
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).										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		grades w/o shale veins; horizontal shale striations @ 31.9'																											
PQ	2	5.0	4.7	4.2	94	84		32		546		shale parting; weathered - 0-10°, B,MW,Fi,PI,SR @ 31.6'																											
								33		545		shale parting - 0°, B,MW,Fi,PI,SR @ 33.5'																											
								34		544		0°, J,MW,CI,Fi,PI,SR @ 33.9'																											
								35		543		shale parting - 10° B,MW,Fi,PI,SR @ 34.5'																											
								36		542		15°, J,MW,CI,Pa,Ir,R @ 35.4'																											
								37		541		grades very strong; very hard; massive; w/trace pits @ 35.4'																											
PQ	3	5.0	5.0	5.0	100	100		38		540		shale parting - B,MW,Fi,PI,R @ 36.8', 37.4'																											
								39		539																													
								40		538																													
								41		537		grades extremely strong; w/trace pits & vugs partially filled w/calcite @ 41.4'																											
								42		536		15°, J,T,No,No,Ir,R @ 41.9'																											
								43		535																													
PQ	4	5.0	5.0	5.0	100	100		44		534																													
								45		534		0°, J,T,No,No,Ir,R @ 44.9'																											

**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>Granger/Duncan</i>										CHECKED BY <i>EM Meyer</i>										APPROVED BY <i>EM Meyer</i>																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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																						
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																																																																																																					
																				45																																																																																									
																				46																																																																																									
																				47																																																																																									
																				48																																																																																									
PQ										5										5.0										5.0										4.6										100										92																																																	
																				49																																																																																									
																				50																																																																																									
																				51																																																																																									
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																				53																																																																																									
PQ										6										5.0										5.0										2.6										100										52																																																	
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PQ										7										5.0										5.0										4.5										100										90																																																	
																				59																																																																																									
																				60																																																																																									

**BLACK & VEATCH****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	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	
							60		
							518		
			61.0				61		
							517		
							62		
							516		
PQ	8	5.0	4.4	2.5	88	50	63		
							515		
							64		
							514		
							65		
							513		
			66.0				66		
							512		
							67		
							511		
PQ	9	5.0	5.0	4.4	100	88	68		
							510		
							69		
							509		
							70		
							508		
							71		
			71.0				507		
							72		
							506		
							73		
							505		
PQ	10	5.0	4.7	3.3	94	66	74		
							504		
							75		

6/19/2008 10:31 AM DTE-Fermi 3

45°, J, N, Qz, Sp, Ir, SR @ 61.7'

weathered shale - 0°, B, Fi, Su, PI, SR @ 62.7-63.0'

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'

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'
 60°, J, VN, Qz & Sd, Fi, PI & Ir, SR @ 67.4'

25°, J, N, No, No, Su, PI, SR @ 68.4'

0°, J, N, No, No, Su, PI, SR @ 69.8', 69.9' fractured; w/clay infilling @ 70.0-70.3'

25°, J, N, No, No, PI, SR @ 70.7' clay & gravel band @ 71.1-71.3'

fractured w/partial clay infill @ 71.5-72.2'
 0° & 40°, intersecting, J, N, R & partially fractured @ 72.5'
 70°, J, N, No, No, Su, Pa, PI, Ir, SR @ 72.9'

fractured w/partial clay infill; highly weathered @ 73.8-75.0'

Core loss possibly due to outwashing @ weathered shale.

Core box #5 starts @ 69.1'.

Possible outwash of fines @ 71.5' & 73.8'.

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Monroe, Michigan					N 8240.3'					E 5237.2'					578.7 ft (NAVD 88)					101.0 (feet)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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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		PERCENT RECOVERY		RQD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

**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>8/20/07</i> Grainger/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	PERCENT RECOVERY	RQD						
							90				30°, J, N, Ca, Pa, Ir, R @ 88.5' 10°, J, N, Ca, Pa, Pl, R @ 88.9'	
			91.0				91				SHALE; highly to completely weathered; fractured (partial clay infill); thin bedded; (Salina Group - Unit F).	
							92				DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; weak reaction w/HCl; (Salina Group - Unit F).	
							93				0-10°, J, N, No, No, Pl, 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'	
							95				fractured w/partial clay infill @ 95.0-95.7'	
			96.0				96				DOLOMITE; pale brown; micritic; fresh; extremely strong; very hard; (Salina Group - Unit F)	
							97				90°, J, N, No, No, Pl, SR @ 95.7-96.5'	
							98				DOLOMITE; argillaceous; dark gray; blocky; micritic; fresh; very strong; very hard; close spaced joints; (Salina Group - Unit F).	Possible outwash of fines @ 97.0' & 98.7'.
PQ	15	5.0	4.0	1.6	80	32	99				0 & 90°, numerous, J, N, crystalline infill, Pa, Ir @ 96.5-97.6'	
							100				highly fractured band @ 97'	
							101				0°, J, N, Cl, Su, Pl, SR @ 97.6-98.0' (numerous)	
							102				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'.
							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' E 5232.9'										GROUND ELEVATION (DATUM) 578.6 ft (NAVD 88)										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																															
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																			
														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																																															
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**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' E 5232.9'										GROUND ELEVATION (DATUM) 578.6 ft (NAVD 88)										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																							
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																							
							15		563																																			
S	1		16.0			2.0	16		562		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		18.0			0.8	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																																			
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							30																																					

BLACK & VEATCH

BORING LOG

BORING NO. MW-391Sa

SHEET 1 OF 1

CLIENT						PROJECT							PROJECT NO.				
Detroit Edison						Fermi 3 COL Application							147483				
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH					
Monroe, Michigan				N 8242.9'				E 5232.9'				578.6 ft (NAVD 88)					
SURFACE CONDITIONS								COORDINATE SYSTEM				DATE START		DATE FINISHED			
Level, gravel base, SE of S Cooling Tower								Plant				05/22/07		05/22/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY			
						Duncan				Meyer				Meyer			
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS				REMARKS		
SPT	1	12	17	8	25	0.8	0		578		Poorly graded GRAVEL 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/4¼" ID, 8" OD hollow stem augers w/tricone center plug. SPT performed w/BK-81 automatic hammer.		
SPT	2	6	7	7	14	0.6	1		577								Very hard drilling. Had to shift rig to maintain vertical auger alignment.
SPT	3	6	14	21	35	0.5	2		576								
SPT	4	11	24	66	90	0.7	3		575								
							4		574								
							5		573						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.		
							6										
							7		572								
							8		571								
							9		570								
							10		569								
							11		568								
							12		567								
							13		566								
							14		565								
							15		564								



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' E 2922.8'				GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)			
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 Grainger/Duncan				CHECKED BY 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													
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	1		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					2.0	2		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).	
							3		573				
							4		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	5		571				
							6		570				
TW	5					0.7	7		569				Refusal to thin-walled sampler @ 7.1'
TW	6					1.0	8		568				Refusal to thin-walled sampler @ 8.5'
SPT	7	8	14	18	32	1.5	9		567			grades very hard	PP>4.5 TSF @ 8.5'
							10		566				
SPT	8	9	31	22	53	0.9	11		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.
							12		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.
SPT	9	9	5	10	15	0.7	13		563			grades medium dense @ 11.5'	
							14		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

**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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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 Grainger/Duncan										CHECKED BY Meyer										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																																																	
PQ		1		2.0		1.7		1.7		85		85		15				561				90°, J, T, Qz, Fi, WA, Ir, cemented @ 14.0-15.1'																				line core barrel w/diamond bit using water as drilling fluid. Core box #1 starts @ 14.0'.																			
														16				560				70°, J, N, No, No, Ir, R @ 14.5'																																							
														17				559				grades dark gray; micritic @ 15.5'																																							
														18				558				parting @ 15.5'																																							
																						0°, J, N, No, Su, Pl & Ir, SR @ 16.2'																																							
PQ		2		5.0		5.0		4.8		100		96		19				557				vuggy, partially filled w/quartz @ 16.8-17.3'																																							
														20				556				grades light brownish gray @ 17.3'																																							
														21				555				0°, J, N, No, Su, Pl, SR @ 17.3'																																							
														22				554				0° & 60°, J, N, No, No, Su, Pl & Ir, R @ 20.5'																																							
														23				553				grades w/trace vugs w/no infill @ 21.0'																																							
PQ		3		5.0		4.5		3.7		90		74		24				552				0°, J, N, No, Su, Pl, SR @ 21.0'																																							
														25				551				0° & 90°, J, N, No, Su, Ir, R, vuggy w/no infill @ 23.0'-23.6'																																							
														26				550				grades w/vugs & veins partially filled w/quartz @ 23.3'																																							
														27				549				3" thin bed of angular & subangular broken fragments of gravel sized rock @ 24.7'																																							
														28				548				grades w/color striations of gray & dark gray @ 24.9'																																							
														29				547				0°, 60° & 90°, J, N, Cl & Sd, Su, Pa, Pl & Ir, R @ 25.1-25.6'																																							
														30								grades w/no vugs & veins @ 26.0'																																							
																						0°-30°, numerous, J, N, Cl & Sd, Su, Pa, Pl, Ir, R @ 26.0-26.4'																																							
PQ		4		5.0		5.0		3.7		100		74										50 gallons of drilling water lost @ 26.0'.																																							
																						60°, J, T, No, No, Ir, VR @ 28.5'																																							
																						0°-90°, numerous, J, F, V to MW, Cl & Sd, Su, Pa, Ir, R @ 29.4'-31.5'																																							



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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>For Grainger/Duncan</i>										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																																																	
PQ		5		3.6		2.8		2.2		78		61		30																																															
						31.0								31				546																																											
														32				545																																											
														33				544																																											
														34				543																																											
														35				542																																											
PQ		6		1.4		0.6		0.0		42		0		36				541																																											
						34.6								37				540																																											
														38				539																																											
														39				538																																											
														40				537																																											
														41				536																																											
						41.0								42				535																																											
														43				534																																											
														44				533																																											
														45				532																																											
PQ		8		5.0		5.0		4.8		100		96																																																	

5/23/2008 4:55 PM DTE-Fermi 3

3/4" band, dark gray & black; highly weathered @ 31.5'
0°-90°, numerous, J, N, Cl, Sd & Qz, Su & Pa, R w/trace of crystalline infilled veins @ 31.6-33.4'

DOLOMITE; argillaceous; dark gray; porphyritic; very fine grained; moderately weathered; very strong; hard; highly fractured; w/angular to subangular cobble-size fragments, surface staining, vuggy w/ crystalline infill; (Bass Islands Group).
possible 0.6' cavity @ 33.0-33.6'

DOLOMITE; grayish brown; micritic to very fine grained; fresh; very strong; hard; w/fractures, slight discoloration; trace vugs w/no infill; (Bass Islands Group).
65°, J, VN, Ca, Pa, Ir, R @ 36.7-37.2'
0°, several, J, VN, Ca, Pa, Ir, R @ 37.2'
70°, J, N, Ca, Pa, Ir, R @ 37.8-38.4'
0°, several, J, N, Ca, Pa, Ir, R @ 38.4'
0°, J, Ca, Pa, Pl & Ir, R @ ~38.4'
0°, J, N, No, No, Pl, SR @ 39.0'

0°, J, VN, Cl, Su, Pl, SR @ 41.2', 41.6', 41.8'

60°, J, VN, No, No, Ir, R @ 42.2'

Core box #3 starts @ 31.0'.

Outwashing of infill possibly occurring between 33.4'-36.7'.
Infill, if present, unknown due to outwashing.
Cavity estimated using televiwer log.

Core box #4 starts @ 42.2'.

**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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>for [Signature]</i> Grainger/Duncan										CHECKED BY <i>EM</i> Meyer										APPROVED BY <i>EM</i> Meyer																																																																															
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PQ										9										5.0										4.7										2.5										94										50																																																	
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PQ										10										5.0										4.7										4.3										94										86																																																	
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PQ										11										5.0										4.7										4.3										94										86																																																	
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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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>Grainder/Dumond</i>										CHECKED BY Meyer <i>Em</i>										APPROVED BY Meyer <i>Em</i>																																																																															
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																				61										516																																																																															
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																				62										515																																																																															
																				63										514																																																																															
PQ										12										5.0										5.0										4.3										100										86																																																	
																				64										513																																																																															
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																				66										511																																																																															
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PQ										13										5.0										5.0										4.5										100										90																																																	
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										71.0																																																																																																			
																				72										505																																																																															
																				73										504																																																																															
PQ										14										5.0										4.2										2.7										84										54																																																	
																				74										503																																																																															
																				75										502																																																																															

Core box #6 starts @ 61.0'.

Core box #7 starts @ 71.0'

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 6 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																												
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SAMPLING															LOGGED BY Grainger/Dunbar										CHECKED BY Meyer										APPROVED BY Meyer																																																																																																													
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																														76										501																																																																																																								
																														77										500																				0°, J,N,Qz,Cl&Sd,Su,Fi,Ir,R @ 76.5', 76.8'																																																																																				
																														78										499																				5" thick highly weathered bed @ 77.6'																																																																																				
PQ															15															5.0															5.0															4.6															100															92															498																																							
																														79										497																				2" highly weathered band @ 79.4'																																																																																				
																														80										496																																																																																																								
																														81										495																				20°,J,N,No,No,Pl,SR @ 81.5'																																																																																				
																														82										494																				0°,J,N,No,No,Pl,SR @ 82.0'																																																																																				
																														83										493																				45°,J,N,No,No,Ir,SR @ 82.5'																																																																																				
PQ															16															5.0															5.0															3.2															100															64															492																																							
																														84										491																				0°,J,MW,Qz,Cl&Sd,Fi,Pl&Ir,SR @ 83.7', 85.2', 86.0'																																																																																				
																														85										490																				90°, J,MW,Qz,Cl&Sd,Fi,Ir,SR @ 83.7-86.0'																																																																																				
																														86										489																																																																																																								
																														87										488																				moderately weathered, gravel to cobble size broken rock fragments @ 86.8-87.4'																																																																																				
																														88										487																				1" moderately weathered band @ 88.1'																																																																																				
PQ															17															5.0															4.6															2.6															92															52															486																				2½" highly weathered band @ 88.5'																			
																														89										485																																																																																																								
																														90										484																				<1/4" highly weathered partings @ 89.5-90.6'																																																																																				

Core box #8 starts @ 81.0'.

**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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>									
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																																
PQ	18	5.0	3.8	2.0	76	40	90		486		numerous <2 1/2" highly weathered bands @ 91.2-95.0'	Core box #9 starts @ 91.0'.																																
							91		485																																			
							92		484																																			
							93		483																																			
							94		482																																			
							95		481																																			
							96		480																																			
							97		479																																			
							98		478																																			
							99		477																																			
PQ	19	5.0	4.5	2.5	90	50	100		476		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.																																
							101		475																																			
							102		474																																			
							103		473																																			
							104		472																																			
							105																																					
PQ	20	5.0	3.9	2.9	78	58	101		475		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'.																																
							102		474																																			
							103		473																																			
							104		472																																			
							105																																					
PQ	20	5.0	3.9	2.9	78	58	101		475		<1/4" moderately weathered parting @ 102.8' & 103.5'	grades vuggy																																
							102		474																																			
							103		473																																			
							104		472																																			
							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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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 Grainger/Dunham										CHECKED BY Meyer										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																																																	
PQ		21		5.0		2.0		1.3		40		26		105																																															
						106.0								106																																															
														107																																															
														108																																															
														109																																															
														110																																															
														111																																															
						111.0								112																																															
														113																																															
														114																																															
														115																																															
														116																																															
						116.0								117																																															
														118																																															
														119																																															
														120																																															

5/23/2008 4:55 PM DTE-Fermi 3

**BLACK & VEATCH****BORING LOG**

BORING NO. MW-393D

SHEET 9 OF 11

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, Michigan										COORDINATES N 9367.4' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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 Grainger/Duncan										CHECKED BY Meyer										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																																																	
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																																															
														128																																															
PQ		25		5.0		3.7		2.2		74		44		129								BRECCIA; (Salina Group - Unit F).																																							
														130																																															
														131								DOLOMITE; light brown; fresh; extremely strong; hard; highly fractured; trace pits (Salina Group - Unit F).																																							
														132																																															
														133								CLAYSTONE; dark gray; very fine grained; fresh; very strong; hard; no reaction w/HCl; fractured into irregular conical fragments; (Salina Group - Unit F).																																							
														134																																															
														135																																															
PQ		26		5.0		1.8		1.4		36		28										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'.																			

**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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>																										
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																																											
														142				434																																											
PQ		28		5.0		3.1		2.1		62		42		143				433																																											
														144				432																																											
														145				431																																											
														146				430																																											
						146.0								147				429																																											
PQ		29		4.0		3.2		3.2		80		80		148				428																																											
														149				427																																											
														150																																															

For PQ-27, to improve recovery allowed time to elapse before withdrawing core barrel.

Core box #13 starts @ 141.0'.

DOLOMITE; grayish brown; micritic; fresh; very strong; hard; trace pits & vugs; irregular vertical & horizontal fractures; slightly weathered; (Salina Group - Unit F).

CLAYSTONE; dark gray; very fine grained; (Salina Group - Unit F).

BRECCIA; gray; very fine to very coarse grained; fresh; moderately strong; low hardness; massive; strong reaction w/HCl; (Salina Group - Unit F).



BLACK & VEATCH

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' E 2922.8'										GROUND ELEVATION (DATUM) 576.6 ft (NAVD 88)										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>Grainier/Daniel</i>										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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
														150																												Bottom of boring @ 150.0'. Water level not recorded. Monitoring well installed on 06/06/07.																			
														151				426																																											
														152				425																																											
														153				424																																											
														154				423																																											
														155				422																																											
														156				421																																											
														157				420																																											
														158				419																																											
														159				418																																											
														160				417																																											
														161				416																																											
														162				415																																											
														163				414																																											
														164				413																																											
														165				412																																											

**BLACK & VEATCH****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' E 2918.2'				GROUND ELEVATION (DATUM) 576.5 ft (NAVD 88)				
SURFACE CONDITIONS Slight slope				COORDINATE SYSTEM				DATE START 05/06/07				
								DATE FINISHED 05/06/07				
SAMPLING				LOGGED BY Duncan				CHECKED BY Meyer				
								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						
							0				Undifferentiated Overburden (See Log for MW-393D)	Boring advanced w/4 1/4" ID, 8" OD hollow stem augers w/center plug.
							1		576			
							2		575			
							3		574			
							4		573			
							5		572			
							6		571			
							7		570			
							8		569			
							9		568			
							10		567			
							11		566			Bottom of boring @ 9.8'. Water not encountered. Monitoring well installed on 05/06/07.
							12		565			
							13		564			
							14		563			
							15		562			

CLIENT										PROJECT										PROJECT NO.																																							
Detroit Edison										Fermi 3 COL Application										147483																																							
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																												
Monroe, Michigan					N 8900.0'					E 4600.1'					577.3 ft (NAVD 88)		101.0 (feet)																																										
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																																										
Level grassed area										Plant					05/16/07		05/21/07																																										
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																							
										Grainiger/Duncan					Dogbey/Meyer					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																								
SPT										1					2					1					2					3					0.6																								
SPT										2					1					1					1					3					0.9																								
TW										3																																																	
SPT										4					5					8					11					19					NR																								

**BLACK & VEATCH****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' E 4600.1'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)										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>Grainger/Duncan</i>										CHECKED BY <i>Dogbey/Meyer</i>										APPROVED BY <i>Meyer</i>																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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									
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																																																																																							
TW 5										0.5										15										562										grades w/occasional fine gravel @ 15.5'										TW sampler refusal @ 16.0'. TV = 2.25 TSF																																												
SPT 6 26 15 21 36 1.3										16										561																																																																										
TW 7										0.1										17										560										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'. 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'.																																												
SPT 8 14 20 23 43 1.3										18										559																																																																										
SPT 9 6 50/4" 20.5 0.5 50 0.6										19										558										DOLOMITE; gray; blocky; micritic; fresh; extremely strong; hard; irregular, tight veins filled w/shale; (Bass Islands Group). grades massive @ 21.0'																																																																
PQ 1 0.5 21.0 0.5 100 100										20										557																																																																										
																				21										556																																																																
																				22										555																																																																
PQ 2 5.0 5.0 5.0 100 100																				23										554																																																																
																				24										553																																																																
																				25										552																																																																
																				26										551																																																																
																				27										550																																																																
																				28										549																																																																
PQ 3 5.0 5.0 5.0 100 100																				29										548										0°,J,N,No,Su,Ir,SR @ 29.5'																																																						
																				30										548																																																																

**BLACK & VEATCH****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' E 4600.1'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)										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>[Signature]</i> Grainger/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																																																	
PQ		4		5.0		4.3		2.5		86		50		30				547				fractured band; partial clay infill @ 30.0-30.2'																				Core box #2 starts @ 30.0'.																			
						31.0								31				546																																											
														32				545																																											
														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																																											
						36.0								36				541																																											
														37				540				highly fractured & weathered; w/thin bed of fractured breccia; interbeds of breccia, dolomite & shale @ 36.7-38.0'																																							
														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,Ci,Su,Ir,R @ 39.3'																																							
														42				535				shale parting - 25°,B,Su,Ir,R @ 40.5'																																							
						41.0								43				534				shale parting - 0°,B,VN,PI,SR @ 42.5'																																							
														44				533				0°,J,T,No,No,PI,SR @ 43.0'																																							
														45								weathered dolomite & shale partings - 0° & 20°,B,MW,PI & Ir,R @ 44.7-44.9'																																							

CLIENT										PROJECT										SHEET # OF																																																	
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483																																																	
PROJECT LOCATION Monroe, Michigan										COORDINATES N 8900.0' E 4600.1'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)										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>Grainger/Duncan</i>										CHECKED BY <i>Dogbey/Meyer</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										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																			
PQ 7 5.0 5.0 5.0 100 100										45										532																				0-90°, numerous, J, N, crystalline & Sd, Pa, Ir, SR; & veins filled w/quartz @ 45.2-45.8'										Core box #4 starts @ 50.1'.																			
46.0										46										531										10°, J, N, No, No, Ir&PI, SR @ 47.0' (2 joints)																																							
										47										530										1" fractured band; highly weathered @ 47.5' grades w/shale striation prominent @ 47.6'																																							
										48										529										fractured; highly weathered; no infilling @ 48.7-48.9'																																							
										49										528										1" highly weathered band @ 49.3' (0°, N, No, Su, PI, SR @ top & bottom of band)																																							
										50										527																																																	
51.0										51										526										shale parting - 0°, B, T, Fi, PI, SR @ 51.0', 52.2', 52.4' 1" highly weathered dolomite band, fractured @ 51.4'																																							
										52										525										grades shale striation less prominent @ 52.4'																																							
PQ 8 5.0 5.0 3.8 100 76										53										524										0°, numerous, J, N, fines & Sd infill, PI, SR highly weathered @ 52.8-53.5'																																							
										54										523										0°, J, VN, No, No, PI, SR @ 53.7'																																							
										55										522																																																	
56.0										56										521										shale partings, moderately weathered - 0°, B, VN to N, Sd, Su, SR @ 56.3', 56.4', 57.7', 57.8'										Core box #5 starts @ 59.8'.																													
										57										520																																																	
										58										519																																																	
PQ 9 5.0 5.0 4.8 100 96										59										518																																																	
										60																																																											

**BLACK & VEATCH****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				
SAMPLING				LOGGED BY <i>Grainder/Duncan</i>		CHECKED BY <i>Em for 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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
PQ	10	5.0	4.6	4.6	92	92	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'	
							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'	
							68		509		shale parting - 5°,B,T,Su,PI,SR @ 67.3'	
PQ	11	5.0	4.8	4.0	96	80	69		508		shale parting - 10°,B,VN,Pa,PI,SR @ 69.0'	
							70		507		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'	
							73		504		0°,J,VN,No,No,PI,SR @ 72.4', 73.2', 73.9', 74.7'	
PQ	12	5.0	4.8	4.3	96	86	74		503			
							75					

Core box #6 starts @ 69.4'.



BLACK & VEATCH

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>[Signature]</i> Grainger/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						
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
							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'	
							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 & CI, Pa, Ir, R @ 76.9', 77.0', 77.9', 78.2'	
PQ	13	5.0	4.7	2.7	94	54	78		499		90° J, N, CI & crystalline, Pa, Ir, R @ 77.9-78.4'	
							79		498		90° J, T, H & Qz, Pa, Ir @ 78.1-78.9'	Core box #7 starts @ 78.7'.
							80		497		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, CI & crystalline, Pa, Ir, R @ 78.2-78.6'	
							81		496		numerous J, VN, No, No, SR @ 78.4-80.4'	
			81.0				82		495		highly fractured, weathered; some 90° J @ 79.5-80.0'	
							83		494		grades vuggy; w/calcite partial infilling @ 82.4'	
PQ	14	5.0	5.0	4.6	100	92	84		493		0°, J, VN, Ca, Pa, PI, SR @ 82.4', 84.3', 84.5'	
							85		492		0-30°, J, N, Ca, Pa, Ir, SR @ 82.9', 83.3', 84.0', 84.8'	
							86		491		highly weathered band w/CI & sand infilling @ 84.6'	
							87		490		90°, J, VN, Ca, Pa, Ir, SR @ 84.8-85.4'	
							88		489		0°, J, N, Ca, Pa, Ir, SR @ 85.4'	
			86.0				89		488		0°, J, VN, No, No, PI, SR @ 86.7'	
PQ	15	5.0	3.2	1.4	64	28	90		487		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'.
											weathered rock fractures @ 88.5-90.7'.	
											DOLOMITE; gray; blocky; micritic; fresh; extremely	

**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' E 4600.1' 577.3 ft (NAVD 88)										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>[Signature]</i> Grainger/Duncan										CHECKED BY <i>[Signature]</i> Dogbey/Meyer										APPROVED BY <i>[Signature]</i> Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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																								
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																														strong; hard; highly fractured; weathered fracture faces; (Salina Group - Unit F).																																																											
																				91																														grades highly fractured & completely weathered; w/residual infill @ 91'																																																											
																				92																																																																																									
																				93																																																																																									
PQ										16										5.0										1.7										0										34										0																																																	
																				94																																																																																									
																				95																																																																																									
																				96																																																																																									
																				97																																																																																									
PQ										17										5.0										3.0										2.8										60										56																																																	
																				98																																																																																									
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																				104																																																																																									
																				105																																																																																									

**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' E 4599.7'										GROUND ELEVATION (DATUM) 577.3 ft (NAVD 88)		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																									
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										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	
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																																									
										0						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																																					
										2																																					
										3																																					
										4																																					
										5																																					
										6																																					
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**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' 577.3 ft (NAVD 88)										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																				
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <td>DEPTH (FEET)</td> <td>SAMPLE TYPE</td> <td>ELEVATION (FEET)</td> <td>GRAPHIC LOG</td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																												
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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																																															

Bottom of boring @ 14.4'. Water level not recorded. Piezometer installed on 05/30/07.

**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>Geo</i>		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			
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	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).	
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
							13		563
							14		562
							15		562
								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).	

**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' 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>Geo</i>										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																		
CORING																																							
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.



BLACK & VEATCH

BORING LOG

BORING NO. P-385D

SHEET 1 OF 7

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, Michigan				COORDINATES N 6201.7' E 4390.0'				GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)				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		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 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.	
							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	566					
S	3					2.9	14.3	566	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' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										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>																
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		4				15.0						4.3		15				565				to coarse, angular to subrounded sand; gray; soft; moist; weak reaction w/HCl; homogeneous; (Lacustrine Deposit).																																							
														16				564																																											
														17				563																																											
														18				562																																											
														19				561				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		5				20.0						5.8		20				560																																											
														21				559																																											
														22				558				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).																																							
														23				557																																											
														24				556																																											
														25				555																																											
														26				554																																											
														27				553																																											
														28				552																																											
														29				551																																											
														30																																															

BLACK & VEATCH

BORING LOG

BORING NO. P-385D

SHEET 3 OF 7

CLIENT						PROJECT				PROJECT NO.	
Detroit Edison						Fermi 3 COL Application				147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)		TOTAL DEPTH	
Monroe, Michigan				N 6201.7'				E 4390.0'		580.1 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED	
Gravel parking lot near a field								05/07/07		05/09/07	
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY	
						Ohlmacher		Dogbey/Ohlmacher		Meyer	
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		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
S	7			30.0				4.9	30		550
									31		549
									32		548
									33		547
									34		546
PQ	1	4.0	4.0	3.7	100	93			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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BORING LOG

BORING NO. P-385D

SHEET 4 OF 7

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, Michigan				N 6201.7'				E 4390.0'				580.1 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Gravel parking lot near a field										05/07/07		05/09/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						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									
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						
							47		533		70°, J,T,No,No,PI,SR @ 46.7-47.8'				
PQ	4	1.4	47.6	1.3	100	93	48		532		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'				
			49.0				49		531						
PQ	5	5.0	4.3	2.0	86	40	50		530		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'				
							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'				
PQ	6	5.0	54.0	3.6	100	72	54		526		grades gray, 0% vugs @ 54.2'				
							55		525		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'				
							56		524		fractured and broken rock @ 56.5-58.0'				
							57		523						
							58		522		grades 15% vugs @ 58.0'				
			59.0				59		521		20°, J,T,No,No,PI,R @ 58.7' 90°, J,VN,Ca,Pa,PI,R @ 59.2-60.4'				
							60								

Core box #3 starts @ 57.0'.



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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' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										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>GO</i>										CHECKED BY <i>Emfe</i> Dogbey/Ohlmacher <i>GO</i>										APPROVED BY <i>Em</i> Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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																																			
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										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'										Core box #4 starts @ 62.9'.									
PQ										8										5.0										4.9										2.9										98										58										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'																			
PQ										9										5.0										5.0										1.8										100										36										62										518																				grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°, J, T, No, No, PI, SR @ 66.6-67.2'																			
PQ										10										5.0										5.0										1.8										100										36										63										517																				shale band; black @ 68.5-68.7'																			
PQ										11										5.0										5.0										1.8										100										36										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'																			
PQ										12										5.0										5.0										1.8										100										36										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'																			
PQ										13										5.0										5.0										1.8										100										36										66										514																				shale band; black @ 68.5-68.7'																			
PQ										14										5.0										5.0										1.8										100										36										67										513																				grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°, J, T, No, No, PI, SR @ 66.6-67.2'																			
PQ										15										5.0										5.0										1.8										100										36										68										512																				shale band; black @ 68.5-68.7'																			
PQ										16										5.0										5.0										1.8										100										36										69										511																				grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°, J, T, No, No, PI, SR @ 66.6-67.2'																			
PQ										17										5.0										5.0										1.8										100										36										70										510																				grades w/shale partings @ 66.0' fractured zone @ 66.1-66.5' 60°, J, T, No, No, PI, SR @ 66.6-67.2'																			
PQ										18										5.0										5.0										1.8										100										36										71										509																				highly fractured, closely spaced, some vertical joints @ 71.0-73.6'																			
PQ										19										5.0										5.0										1.8										100										36										72										508																				grades 10% vugs partially filled w/calcite @ 73.5'																			
PQ										20										5.0										5.0										1.8										100										36										73										507																				grades highly fractured, healed, @ 74.7-76.7'																			
PQ										21										5.0										5.0										1.8										100										36										74										506																				grades highly fractured, healed, @ 74.7-76.7'																			
PQ										22										5.0										5.0										1.8										100										36										75										505																				grades highly fractured, healed, @ 74.7-76.7'																			

**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' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										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>GOC</i>										CHECKED BY Dogbey/Ohlmacher <i>GOC</i>										APPROVED BY Meyer <i>EM</i>																																																															
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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' grades highly fractured, healed @ 77.5'																																																																	
							76							504																																																																															
							77							503																																																																															
							78							502																																																																															
PQ 11 5.0 5.0 3.2 100 64							79							501														35°, J, VN, No, No, PI, R @ 79.6-79.7' 70°, J, VN, No, No, PI, SR @ 82.0-82.5' highly fractured, open @ 82.3-83.4'																																																																	
							80							500																																																																															
							81							499																																																																															
							82							498																																																																															
PQ 12 5.0 4.8 2.8 96 56							83							497														90°, J, VN, No, No, St, SR @ 83.4-84.0' 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' highly fractured, open @ 86.0-87.0' 90°, J, VN, No, No, PI, SR @ 86.7-89.2'																																																																	
							84							496																																																																															
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							88							492																																																																															
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							88							492														SHALE; dark gray; (Bass Islands Group).																																																																	
							89							491																																																																															
							89							491														DOLOMITE; dark gray; very fine grained; slightly weathered; strong; moderately hard; banding; 10% unfilled vugs; w/shale partings; (Bass Islands Group). 0°, B, VN, No, No, PI, S @ 89.2' 90°, J, T, No, No, PI, SR @ 89.2-89.5'																																																																	
							90							490																																																																															

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**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' E 4390.0'										GROUND ELEVATION (DATUM) 580.1 ft (NAVD 88)										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 GCO Ohlmacher										CHECKED BY FMB Dogbey/Ohlmacher										APPROVED BY EM Meyer																																															
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PQ 13 5.0 5.0 3.1 100 62										90 490																														0°, J, VN, No, No, WA, SR @ 89.4' highly fractured, open @ 89.9-91.0'										Core box #7 starts @ 92.4'.																											
										91 489																				20°, J, T, No, No, PI, SR @ 91.5' highly fractured, open @ 91.6-91.8'																																															
										92 488																				highly fractured, open @ 92.3-92.6' grades gray, no vugs @ 92.3'																																															
										93 487																																																																			
										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										95 485																				0°, J, VN, No, No, PI, SR @ 96.2', 97.9', 98.2'																																															
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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'										Core box #8 starts @ 102.1'.																																					
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										102 478																				25°, J, T, No, No, PI, SR @ 102.0-102.2'																																															
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										105																																																																			



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' E 4385.6'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										TOTAL DEPTH 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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SPT										1										4										7										6										13										0.3										0										580																				<p>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).</p> <p>grades wet @ 10.0'</p>										<p>Boring advanced w/4 1/4" ID, 8" OD hollow stem augers. SPT performed w/D-50 automatic hammer.</p>									
SPT										2										18										5										2										7										0.5										1										579																																							
SPT										3										1										2										3										5										0.0										2										578																																							
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SPT										9										7										8										10										0.0										8										572																																																	
SPT										10										8										9										11										0.0										9										571																																																	
SPT										11										9										10										12										0.0										10										570																																																	
SPT										12										10										11										13										0.0										11										569																																																	
SPT										13										11										12										14										0.0										12										568																																																	
SPT										14										12										13										15										0.0										13										567																																																	
SPT										15										13										14										16										0.0										14										566																																																	
SPT										16										14										15										17										0.0										15										565																																																	

**BLACK & VEATCH****BORING LOG**

BORING NO. P-385S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																															
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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' E 3889.3'				GROUND ELEVATION (DATUM) 576.9 ft (NAVD 88)				
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		
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						
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						6		570		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; w/trace sand; reddish brown & gray; firm; moist; lensed.	
TW	8						7		569			
SPT	9						8		568			
SPT	10						9		567			
							10		566		grades hard; dry to moist @ 11.0'	
SPT	11						11		565			
SPT	12						12		564		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	13						13		563			
SPT	14						14		562		grades hard	



BLACK & VEATCH

BORING LOG

BORING NO. P-389S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																								
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**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'		580.6 ft (NAVD 88)		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													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
SPT	1	2	4	3	7	0.5		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			
								9		572			
SPT	2	3	3	4	7	0.5		10		571			
								11		570			
								12		569			
SPT	3	11	11	13	24	0.8		13		568			
								14		567			
SPT	4	6	6	8	14	0.9		15		566			

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.

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).

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

**BLACK & VEATCH****BORING LOG**

BORING NO. P-392S

SHEET 2 OF 2

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																					
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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' E 5248.8'					GROUND ELEVATION (DATUM) 578.4 ft (NAVD 88)					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 Duncan					CHECKED BY Meyer					APPROVED BY Meyer																					
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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.

**BLACK & VEATCH****BORING LOG**

BORING NO. P-396S

SHEET 2 OF 2

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483																																																																																																												
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SHEET 1 OF 2

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SURFACE CONDITIONS Level, gravel shoulder, East of Cooling Towers										COORDINATE SYSTEM Plant										DATE START 05/23/07										DATE FINISHED 05/23/07																																																																																										
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<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD								<table border="1"> <tr> <td>SPT</td> <td>1</td> <td>1</td> <td>2</td> <td>3</td> <td>5</td> <td>0.7</td> </tr> <tr> <td>SPT</td> <td>2</td> <td>1</td> <td>2</td> <td>3</td> <td>5</td> <td>0.0</td> </tr> <tr> <td>SPT</td> <td>3</td> <td>3</td> <td>3</td> <td>7</td> <td>10</td> <td>1.5</td> </tr> </table>										SPT	1	1	2	3	5	0.7	SPT	2	1	2	3	5	0.0	SPT	3	3	3	7	10	1.5	<table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>																																																																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																		
SPT	1	1	2	3	5	0.7																																																																																																																		
SPT	2	1	2	3	5	0.0																																																																																																																		
SPT	3	3	3	7	10	1.5																																																																																																																		

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' E 5748.5'										GROUND ELEVATION (DATUM) 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 Daneen										CHECKED BY Dogbey/Meyer										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																																																	
TW		4										0.9		15		561																																													
														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																																													

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).

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' E 5352.1'										GROUND ELEVATION (DATUM) 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 Grainger/Duncan										CHECKED BY Meyer										APPROVED BY Meyer	
SAMPLE TYPE	SAMPLE NUMBER	SET	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	1					5.0						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						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						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).																			
												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).																			



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' E 5352.1'					GROUND ELEVATION (DATUM) 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>				
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																		
							15.0																	
S	4					5.0	15		562															
							16		561															
							17		560															
							18		559															
							19		558															
							20		557															
S	5					5.0	20.0		556															
							21		555															
							22		554															
							23		553															
							24		552															
							25		551															
S	6					4.5	25.0		550															
							26		549															
							27		548															
							28																	
							29																	
							30																	

6/19/2008 11:24 AM DTE-Fermi 3

Below 26.5' water circulated w/ sonic drilling to prevent fines caking on samples. 50% drilling fluid loss @ 27.0'.

Set nominal 6" temporary steel casing to 29.5'.

0°,J,T,No,No,PI,SR @ 29.5', 29.8'



BLACK & VEATCH

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' E 5352.1'										GROUND ELEVATION (DATUM) 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. Grainger/Duncan</i>										CHECKED BY <i>Meyer</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																																	
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																														
PQ	2	5.0	5.0	4.8	100	96	33		545																														
							34		544																														
							35		543																														
			36.0				36		542																														
PQ	3	5.0	4.7	3.8	94	76	37		541																														
							38		540																														
							39		539																														
							40		538																														
			41.0				41		537																														
							42		536																														
PQ	4	5.0	4.9	4.6	98	92	43		535																														
							44		534																														
							45		533																														

**BLACK & VEATCH****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' 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>													
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	
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' 60° J,T,No,No,Ir,R, intersecting 0°, J,T,No,No,Ir,R @ 46.7' 0°, J,T,No,No,Ir,R @ 47.0' 0°, J,N,No,No,Pl,SR, moderately weathered parting @ 47.2' 0 & 60° intersecting J,T,No,Su,Ir,R, slightly weathered @ 47.4-47.8' 0°, 50° & 90° intersecting J,T,No,No,Ir,R @ 47.8-49.5'																				Core box #3 starts @ 47.6'.	
PQ		6		5.0		4.4		2.3		88		46		46				531				30°, J,VN,No,Su,Ir,SR, slight weathering @ 50.0' 0 & 60°, J,VN,No,Su,Ir,SR, numerous, slightly weathered @ 50.0-56.6' 0 & 60°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.2-51.6' 0, 30 & 80°, J,VN,No,Su,Ir,SR, slightly weathered @ 51.6-52.0' highly weathered to residual, thin bedded, max. size 1½" @ 52.5-53.0'																					
PQ		7		5.0		3.8		2.4		76		48		51				529				0° & other angle, J,N,No,No,Ir,SR numerous, moderately weathered @ 53.3-53.6' DOLOMITE; slightly to moderately weathered, fractured & stained; (Salina Group - Unit F). SHALE; gray; blocky; strong; very hard; (Salina Group - Unit F). highly weathered to residual; fractured @ 54.9-56.0'																					
PQ		7		5.0		3.8		2.4		76		48		52				528				80°, J,T,No,No,Ir,R @ 56.5-57.1' 30°, J,T,No,No,Ir,R @ 56.5' 0°, J,VN,No,Su,Pl,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'																				Core box #4 starts @ 56.0'.	
PQ		7		5.0		3.8		2.4		76		48		53				527				SHALE; dolomitic; gray; highly weathered to residual; very weak; low hardness to friable; (Salina Group - Unit F)																					



BLACK & VEATCH

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>Grainger/Duncan</i>					CHECKED BY <i>Meyer</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								
CORING																								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																		
PQ	8	5.0	3.7	1.0	74	20	60		517		grades w/trace pits & vugs @ 61.0'													
							61		516															
							62		515															
							63		514															
							64		513															
							65		512		2" dolomite band @ 66.9-67.1'					Core box #5 starts @ 66.0'.								
							66		511															
							67		510															
							68		509															
							69		508															
							70		507															
							71		506															
							72		505															
							73		504															
							74		503															
PQ	10	5.0	4.0	3.2	80	64	75																	



BLACK & VEATCH

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' E 5352.1'					GROUND ELEVATION (DATUM) 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>				
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								
PQ	11	5.0	3.7	2.8	74	56	75																	
			76.0				76		502															
							77		501															
							78		500															
							79		499															
							80		498															
							81		497															
PQ	12	5.0	5.0	4.1	100	82	82		496		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).													
							83		495															
							84		494															
							85		493															
							86		492		grades w/residual shale beds @ 86.0'					Water level @ 24.8' prior to drilling on 05/17/07.								
							87		491															
							88		490															
PQ	13	5.0	2.9	0.0	58	0	89		489															
							90		488															

BLACK & VEATCH

BORING LOG

BORING NO. P-398D

SHEET 7 OF 7

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, Michigan					N 9510.6'					E 5352.1'					577.9 ft (NAVD 88)					101.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Level, grassy covered; North of North Cooling Tower										Plant					05/15/07					05/17/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Duncan					Meyer					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	14	5.0	3.8	0.4	76	8		90																					
			91.0					91		487			Core box #7 starts @ 91.0'.																
								92		486																			
								93		485																			
								94		484																			
								95		483																			
			96.0					96		482			1.7' core loss due to wash out.																
								97		481																			
PQ	15	5.0	3.3	2.2	66	44		98		480		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		479																			
								100		478		3" fractured zone; moderately weathered w/staining @ 99.4-99.8'																	
								101		477			Bottom of boring @ 101.0'. Water level @ 24.8' @ completion of drilling. Piezometer installed on 06/02/07.																
								102		476																			
								103		475																			
								104		474																			
								105		473																			

BLACK & VEATCH

BORING LOG

BORING NO. P-398S

SHEET 1 OF 2

CLIENT						PROJECT							PROJECT NO.		
Detroit Edison						Fermi 3 COL Application							147483		
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, Michigan				N 9504.3'				E 5350.4'				578.0 ft (NAVD 88)			
SURFACE CONDITIONS								COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, grass cover, North of North Cooling Tower								Plant				05/23/07		05/23/07	
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Duncan				Meyer EM				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	PERCENT RECOVERY	RQD									
									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			5		573		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'		
								6		572					
								7		571					
								8		570					
								9		569					
SPT	2	2	2	4	6	1.3			10		568		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					
TW	3					1.6			15		563		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).		



BORING NO. P-398S

SHEET 2 OF 2

5/27/2008 3:31 PM DTE-Fermi 3

**BLACK & VEATCH****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' E 5228.7'				GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)				
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 RECOVERY	PERCENT RECOVERY	RQD						
							0				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.
							1					
							2					
SPT	1	2	1	3	4	1.1	3				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).	Installed center bit, redrilled to 2'. SPT performed w/D-50 automatic hammer.
							4				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).	
SPT	2	2	2	4	6	1.2	5				grades w/trace gravel, max. size 1 1/2" @ 5'	
							6					PP=2.0 TSF
							7				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).	
SPT	3	2	5	11	16	1.7	8					
							9				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).	
SPT	4	5	7	10	17	1.8	10					PP>4.5 TSF
							11				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).	
SPT	5	2	9	15	24	1.4	12				grades very hard @ 11.5'	
							13				grades hard; gravel, max. size 1" @ 13'	
SPT	6	8	14	17	31	1.3	14					PP>4.5 TSF
							15				grades gray @ 14'	



BORING NO. P-399D

SHEET 2 OF 8

5/23/2008 3:41 PM DTE-Fermi 3



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 574.7 ft (NAVD 88) 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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS					REMARKS					
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' 90°, J, T, No, No, PI, SR @ 32.1-33.0'										
							33		541		5°, J, T, UK, Pa, PI, SR @ 33.1'										
							34		540		0°, B, T, No, No, PI, SR @ 33.5' 90°, J, T, No, No, PI, SR @ 33.6-34.0' fractured @ 34.0-34.3'					No drilling fluid return @ 37.0'. Core box #2 starts @ 37.0'.					
			34.0				35		539		0°, B, T, No, No, PI, SR @ 34.3-34.5', 35.3-35.4' two bedding planes 15°, J, T, Ca, Pa, PI, SR @ 34.5-35.2' 0°, B, T, No, No, PI, SR @ 34.9'										
PQ	3	5.0	5.0	1.2	100	24	36		538		70°, J, N, No, No, Ir, VR @ 35.8' 0°, B, VN, No, No, PI, R @ 35.9' 90°, J, T, No, No, WA, R @ 36.1-36.3' 0°, B, T, No, No, PI, SR @ 36.3' 50°, J, T, No, No, PI, SR @ 36.5-36.9' grades w/5% vugs up to 1/2" @ 37.0'										
							37		537		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'										
							38		536												
							39		535		fractured @ 39.4-39.7' brecciated, healed fractures @ 39.7-40.1' grades brownish gray, thin bedded to massive @ 40'										
							40		534		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'										
PQ	4	5.0	4.8	3.1	96	62	41		533		10°, J, VN, No, No, Ir, R @ 41.6'										
							42		532		grades gray @ 42.6'										
							43		531		50°, J, W, Sd, Fi, PI, R @ 43.1-43.5'										
							44		530		fractured @ 44.0-44.6'										
			44.0				45		530		50°, J, VN, Ca, Fi, St, SR @ 44.6-44.8'										

**BLACK & VEATCH****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' 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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Ohlmacher <i>GO</i>										CHECKED BY Dogbey/Ohlmacher <i>GO</i>		APPROVED BY Meyer <i>EM</i>																	
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																			
PQ 5 5.0 4.9 3.4 98 68										45 529 46 528 47 527 48 526 49 525 50 524 51 523 52 522 53 521 54 520 55 519 56 518 57 517 58 516 59 515 60										fractured @ 45.1-45.4' 30°, J, VN, Ca, Sp, St, SR @ 45.1' 10°, J, T, No, No, St, SR @ 46.1' fractured @ 46.3-46.5' 75°, J, T, No, No, PI, SR @ 47.3-47.7' 10°, J, W, Sd, Pa, PI, R @ 48.4' fractured, clayey sand infilling @ 49.0-49.7' 15°, J, PI @ 49.9' 0°, J, Ca, Sp, PI, SR @ 50.3' SHALE; dolomitic; dark gray; micritic; slightly weathered; strong; hard; closely spaced joints; (Salina Group Unit F). 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' 90°, J, Ca, Sp, PI, SR @ 54.0-54.5' fractured @ 54.2-54.4' 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' 10°, J, VN, No, No, PI, SR @ 55.1' 90°, J, T, No, No, PI, SR @ 55.1' fractured @ 55.8-56.5' 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' 0°, V, W, Ca, Fi, Ir, R @ 57.5-57.7' 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' DOLOMITE; gray; crystalline; very fine grained; slightly weathered; strong; hard; massive; no vugs; (Salina Group Unit F).										Core box #3 starts @ 46.3'. Core box #4 starts @ 58.5'.									

**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 5 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																																																																																																																													
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**BLACK & VEATCH****BORING LOG**

BORING NO. P-399D

SHEET 6 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
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PQ	14	5.0	3.0	0.0	60	0	75								indurated to indurated) or highly fractured; (Salina Group - Unit F).	Core box #5 starts @ 75.6'.																																																																																			
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PQ	16	5.3	2.9	0.4	55	8	86																																																																																												
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PQ	17	1.1	(a)				89																																																																																												
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5/23/2008 3:41 PM DTE-Fermi 3

DOLOMITE; argillaceous; dark gray; very fine grained; highly weathered; very weak; friable; banded; (Salina Group - Unit F).

DOLOMITE; w/shale layers; highly weathered; 0.1'-0.2' dolomite fragments; (Salina Group - Unit F)

SHALE; gray; highly weathered to residual; weak; friable; banded; (Salina Group - Unit F).

SAND; gray; (Salina Group - Unit F).

Core barrel jammed @ 83.8'.

(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



BORING NO. P-399D

SHEET 7 OF 8

5/23/2008 3:41 PM DTE-Fermi3

**BLACK & VEATCH****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' 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 <i>lee</i>										CHECKED BY Dogbey/Ohlmacher <i>GOO</i>										APPROVED BY Meyer <i>EM</i>																																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS																																																																					
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**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' E 5228.7'										GROUND ELEVATION (DATUM) 574.7 ft (NAVD 88)										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 GCG for Grainger										CHECKED BY Meyer SM										APPROVED BY Meyer SM									
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																											
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																														
							2		572																														
							3		571		ORGANIC 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'.																											
			4.0				4		570																														
			4.5				5		569																														
GP	3					1.1	6		568		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		6.0			0.7	7		567																														
							8		566																														
							9		565																														
							10		564																														
							11		563																														
							12		562																														
							13		561																														
							14		560																														
							15																																

**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				
SAMPLING				LOGGED BY Mass/Ang/Grainger				CHECKED BY Dogbey/Bonnie TB				
								APPROVED BY Meyer SM				
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				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.
							1		580			
							2		579			
							3		578			
							4		577			
							5		576			
							6		575			
		6.0					7		574			Below 6.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	1					NR	8		573			
							9		572			
							10		571			
		10.0					11		570		grades light gray; moist; @ 10.0-12.0'	Discrete sample S01A collected @ 10.0-11.5'
S	2					NR	12		569			Water level @ 9.5' on 07/24/07; boring @ 12.7'.
							13		568			Discrete sample S02A collected @ 12.0-12.7' Set nominal 6" temporary steel casing to 12.7'. Below 12.7' continued w/ NWJ rods & 4 1/2" tricone bit using bentonite mud
		12.75					14		567		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).	
SPT	3	5	1	2	3	0.9	15		566		Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy fines; gray; soft; moist;	

**BLACK & VEATCH****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' E 4451.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 E.A. Gloor Mass/Ang/Grainger										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																																																																																																																																																										
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**BLACK & VEATCH****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' E 4451.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 EPA GLO for Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																															
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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 1½"; 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																													
																																																		34										546																																																	
																																																		35										545																																																	
																																																		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										90°,J,T,H,No,Ir @ 40.5' 0°,B,N,No,No,Ir,R @ 40.8',41.9' fractured @ 41.2-41.5'																																							
																																																		41										539																																																	
																																																		42										538										0°,B,N,No,No,Ir,R @ 42.0'																																							
PQ										2										5.0										4.7										3.3										94										66										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' 0°,B,N,No,No,Ir,R @ 44.4'																																							
																																																		45																																																											

BLACK & VEATCH

BORING LOG

BORING NO. CB-C1

SHEET 4 OF 9

CLIENT										PROJECT										SHEET # OF									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6363.4'					E 4451.9'					580.6 ft (NAVD 88)					128.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot near storage garage										Plant					07/16/07					09/21/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Mass/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																
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	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' 0°,B,UK,Su,Ir,SR @ 46.2'	Core box #2 starts @ 45.5'.																
								46		534		pitted & vuggy @ 47.2-47.7'																	
								47		533		fractured @ 47.8-48.3' 0°,B,UK,Su,Ir,SR @ 47.8' 85-90°, J,T,No,No,Ir,R @ 47.8-48.9' 0°,B,UK,Su,Ir,SR @ 48.7'																	
								48		532		85-90°, J,T,No,No,Ir,R @ 49.3-50.0' 0°,B,UK,Su,Ir,SR @ 49.4'																	
								49		531		60°,J,N,No,No,Ir,R @ 50.5' 0°,B,UK,Su,Ir,SR @ 51.0',51.2'																	
								50		530		DOLOMITE; light gray & dark gray (mottled); micritic; fresh; very strong; hard; w/argillaceous partings & stylolites; (Bass Islands Group).																	
PQ	4	5.0	5.0	1.0	100	20		51		529		very closely spaced (1"), parallel 90°,J,T,No,No @ 52.4-53.9'																	
								52		528		fractured @ 53.3-53.9' 0°,B,UK,Su,Ir,SR @ 53.7',53.9'																	
								53		527		DOLOMITE; argillaceous; dark grayish brown; pitted; micritic; fresh; very strong; hard; (Bass Islands Group). 90°,J,T,No,No,Ir,R @ 53.9-57.2' 0°,B,UK,Su,Ir,SR @ 55.0'																	
								54		526		0°,B,UK,Sp,Pl,SR @ 56.1',56.3'																	
								55		525																			
								56		524																			
								57		523																			
PQ	5	5.0	5.0	2.8	100	56		58		522		0°,B,UK,Sp,Pl,SR @ 59.1',59.2',59.4'																	
								59		521		BRECCIA; healed; pinkish gray; micritic; dolomite	Core box #3 starts @ 55.5'. Water level @ 15.0' prior to drilling on 08/30/07.																
								60																					

BLACK & VEATCH

BORING LOG

BORING NO. CB-C1

SHEET 5 OF 9

CLIENT										PROJECT										PROJECT NO.																																																																					
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																																											
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																																											
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																																											
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										REMARKS																			
PQ										6										5.0										5.0										1.7										100										34										matrix w/light gray micritic dolomite clasts; fresh; very strong; hard; w/stylolites; (Bass Islands Group). fractured w/anhydrite crystals 59.4-60.5'										Core box #4 starts @ 64.5'.									
PQ										7										5.0										5.0										4.7										100										94										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										8										5.0										5.0										1.7										100										34										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'																			
PQ										9										5.0										5.0										1.7										100										34										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										10										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 61.2-64.2'																			
PQ										11										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										12										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										13										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										14										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										15										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										16										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										17										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										18										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										19										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										20										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										21										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										22										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										23										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										24										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										25										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										26										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										27										5.0										5.0										1.7										100										34										DOLOMITE; gray; micritic, fresh; very strong; hard; (Bass Islands Group). 90° J,T,No,No,Ir,VR @ 65.5-66.7'																			
PQ										28										5.0										5.0										1.7										100										3																													

[illegible]

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C1

SHEET 7 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 Mass/Ang/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							
PQ	13	2.6	2.6	0.6	100	23	90.5		490		90° J,N,No,No,Ir,R @ 90.5-92.3'	Core box #7 starts @ 90.5'. Core barrel blocked.	
									489		dolomite; mottled gray & dark gray @ 90.8-91.7'		
									489		0°,B,N,No,No,Ir (solutioned) @ 91.3',91.6',91.7',92.0',		
									91.7				
									488		SHAILE; gray; fissile; highly weathered; very weak; low hardness; (Bass Islands Group).		
									92.0				
									488		DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).		
									93		0°,B,N,No,No,Ir (solutioned) @ 93.1'		
									487				
									94		fractured @ 94.5-95.0'		
PQ	14	2.4	2.4	1.6	100	67	93.1		486			Core box #8 starts @ 100.5'.	
									95		SHAILE; dark gray; fissile; slightly weathered; weak; medium hard; (Bass Islands Group).		
									94.5		0°,B,N,No,No,Ir (solutioned) @ 94.5',94.8'		
									94.9				
									485		DOLOMITE; gray; micritic; fresh; strong; hard; w/ stylolites & few argillaceous partings; (Bass Islands Group).		
									484		75° J,T,No,No,Ir,VR (slightly weathered) @ 95.2-95.9'		
									97		0-10° B,N,No,No,Ir,R (slightly weathered) @ 95.7', 95.5'		
									483		85-90° J,T,No,No,Ir,R @ 95.8-97.0'		
									98		50° J,T,Ca,Fe,PI,SR @ 96.5'		
									482		slightly weathered, fractured @ 97.3-97.8'		
PQ	15	5.0	4.8	2.7	96	54	95.5		481		50° J,T,Ca,Fe,PI,SR @ 97.7'	Core box #8 starts @ 100.5'.	
									99		slightly weathered, fractured @ 98.7-98.9'		
									480				
									100		0-10° B,N,No,No,Ir,R (slightly weathered) @ 99.9'		
									480		85° J,T,No,No,Ir,R @ 100.5-101.0'		
									101				
									479		50° J,T,Ca,Fe,PI,SR @ 101.3'		
									102				
									478				
									103		10° B,T,No,No,PI,SR @ 102.9'		
PQ	16	5.0	5.0	2.7	100	54	100.5		477			Core box #8 starts @ 100.5'.	
									104		DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; hard; w/stylolites & argillaceous partings; (Bass Islands Group).		
									476		0-5° B,UK,Ca, slightly weathered @ 103.8', 104.9',		



BLACK & VEATCH

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' E 4451.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 Mass/Ang/Grainger										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																																																																																																																																																																																																																																																																																													
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PQ										17										5.0										4.7										2.0										94										40										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									
PQ										18										5.0										4.7										3.1										94										62										110.5										470										111										469										112										468										113										467										114										466										115										465										116										464										117										463										118										462										119										461										120																																																																																																													
PQ										19										5.0										5.0										2.1										100										42										115.5										465										116										464										117										463										118										462										119										461										120																																																																																																																																																																																																																	

**BLACK & VEATCH****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'					GROUND ELEVATION (DATUM) E 4451.9'					580.6 ft (NAVD 88)					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>TP for EAP GLO for</i> Mass/Ang/Grainger										CHECKED BY <i>EM for</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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS									
							120		460		10°,B,N,An,Fi @ 119.3'										
			120.5				121		459		70°,J,N,No,No,Ir,R (slightly weathered) @ 120.9', 122.7'	Core box #10 starts @ 120.5'.									
PQ	20	2.5	2.5	2.2	100	88	122		458												
							123		457		80°,J,N,No,No,Ir,R (slightly weathered) @ 122.7' 10°,B,N,Cl, weathered @ 122.8'										
			123.0				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														



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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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																															
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																			
														0								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).																				Boring advanced w/vacuum excavation.																			
														1																																															
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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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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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**BLACK & VEATCH****BORING LOG****BORING NO. CB-C2****SHEET 3 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				
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				
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						
							30		550			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'.
PQ	1	0.3	30.7 0.3 31.0	0.0	100	0	31				DOLOMITE; crystalline; grayish brown; micritic; slightly weathered; very strong; hard; thick bedded w/stylolites; (Bass Islands Group). 0°,B, fractured @ 31.9-32.0'	
							32		549			
							33		548			
PQ	2	5.0	5.0	4.1	100	82	34		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'	
							35		546		85°-90°,J,T,No,No,Ir,VR @ 34.6-36.7' pitted @ 34.9-35.5'	
							36		545			
			36.0				37		544		0°,B,MW (solutioned) @ 35.9'	
							38		543			
PQ	3	5.0	4.9	1.5	98	30	39		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	
							40		541		0°,B,N,No,No,PI,Ir,SR @ 39.1', 39.3', 39.5'	Core box #2 starts @ 39.5'.
							41		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'	
							42		539		0°,B,N,No,No,PI,Ir,SR @ 40.6', 40.7', 40.9'	100% drilling fluid loss @ 41.0'.
			41.0				43		538			
PQ	4	5.0	5.0	4.5	100	90	44		537		0°,B,N,No,No,PI,SR @ 42.0', 43.2', 43.3' 50°,J,T,No,No,Ir,SR @ 42.5' 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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BORING LOG

BORING NO. CB-C2

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483	
PROJECT LOCATION Monroe, MI					COORDINATES N 6353.2' E 4517.1'					GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					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 EPA GCO for Bonnie/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						
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
PQ	5	5.0	5.0	0.5	100	10	45		535		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'				Core box #3 starts @ 49.2'.						
			46.0				46	534													
							47	533													
							48	532													
							49	531													
							50	530													
							51	529													
							52	528													
							53	527													
							54	526													
PQ	6	5.0	5.0	4.6	100	92	55	525		DOLOMITE; argillaceous; dark brownish gray; micritic; very strong; hard; thick bedded; fossiliferous; pitted w/stylolites & argillaceous partings; (Bass Islands Group).											
							56	524		0°,B,N,UK,Fi,PI,SR @ 53.5', 53.6', 53.8'											
							57	523		DOLOMITE; light brownish gray; crystalline; fresh; very strong; hard; w/zones of oolites; (Bass Islands Group).											
							58	522		90°,J,T,partly healed,anhydrite,Pa,Ir,VR @ 57.8-59.3' 20°,B,N,No,No,PI,R @ 58.4', 58.6', 58.7', 58.9', 59.3'				Core box #4 starts @ 58.0'.							
PQ	7	5.0	5.0	3.5	100	70	59	521		40°,J,N,No,No,PI,R @ 59.3'											
							60				DOLOMITE; gray; micritic; fresh; very strong; hard;										

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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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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 EJA GCO for Bonnie/Ang/Grainger										CHECKED BY TB Dogbey/Bonnie										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																															
PQ		8		5.0		5.0		4.3		100		86		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'																					
														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																													
						66.0								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°,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'																					
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																				Core trying to block @ 73.0-75.0'. Drill chatter @ 73.0-75.0'.	

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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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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													
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		11		5.0		5.0		4.2		100		84		75								set) pitted @ 74.9-75.4'																					
						76.0								76								solutioned fractures @ 76.4'																					
														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'.	
														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'																					
														85								weathered, near vertical fracture @ 84.4-86.6'																					
														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'																					
														89								1/4" 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																													

**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' E 4517.1'		GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)		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	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
CORING							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		0-5° B,N,UK,Su,WA,R @ 90.0', 90.6'
			91.0				91		SHALE; black; slightly weathered; low hardness; no reaction w/HCl; (Bass Islands Group).
							92		DOLOMITE; dark gray; micritic; fresh; very strong; hard; (Bass Islands Group).
							93		0° B,N,UK,Sp,Ir,R @ 91.6', 92.1', 92.3'
							94		DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded w/stylolites; (Bass Islands Group).
							95		20° J,T,No,No,PI,SR @ 92.8', 92.9'
							96		0° B,N,UK,Sp,Ir,R @ 93.3', 94.1'
							97		60° J,MW (solutioned) @ 93.3'
							98		85-90° J,N,anhydrite,Pa,Ir,R @ 93.5-94.2'
							99		20° J,T,No,No,PI,SR @ 94.9'
							100		60° J,N,No,No,PI,SR @ 95.9'
							101		85-90° J,T,No,No,Ir,R @ 96.3-97.5'
							102		0° B,N,UK,Su,Ir,VR @ 97.2', 98.2'
							103		SHALE; dark grayish brown; highly weathered; (Clay); medium plasticity, medium toughness, no dilatancy; hard; moist; no reaction w/HCl; (Bass Islands Group).
							104		DOLOMITE; dark grayish brown; crystalline; fresh; very strong; hard; banded; w/stylolites; (Bass Islands Group).
							105		20° J,N (solutioned) @ 97.7', 98.2'
							106		healed brecciated zones @ 98.2-98.7', 99.7-100.5'
							107		0° B,N,UK,Su,Ir,VR @ 100.5'
							108		1/4" Clay (CL); medium plasticity, medium toughness, no dilatancy; soft; moist; no reaction w/HCl @ 100.7'
							109		85-90° J,T,No,No,Ir,VR @ 100.8-101.4', 101.2-102.3'
							110		0° B,N,UK,Sp,PI,R @ 101.5', 101.6', 101.7', 102.0'
							111		fractured @ 102.3-102.5'
							112		DOLOMITE; argillaceous; very dark gray; fresh; very strong; hard; w/thin argillaceous partings; (Bass Islands Group).
							113		0° B,N,anhydrite,Fi @ 102.8'
							114		0° B,N,UK,Sp,PI,R @ 103.6', 104.3'
							115		fractured @ 103.8-103.9'
							116		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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BORING LOG

BORING NO. CB-C2

SHEET 8 OF 19

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483					
PROJECT LOCATION Monroe, MI				COORDINATES N 6353.2' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				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 EUA Geofor Bonnie/Ang/Grainger		CHECKED BY TB Dogbey/Bonnie		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							
							105				0°,B,N,UK,Sp,PI,R @ 105.2'		
									475				
							106				fractured @ 106.0-106.5'		
									474		90°,J,T,No,No,Ir,R @ 106.0-107.3'		
											DOLOMITE; gray; crystalline; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group).		
							107				0°,B,N,No,No,PI,SR @ 106.4', 106.5', 106.7', 107.1', 107.3', 107.35', 108.2'		
									473		fractured @ 106.7-107.1', 107.9-108.2'		
							108				90°,J,T,No,No,Ir,R @ 107.4-108.9'		
PQ	17	5.0	5.0	1.7	100	34			472		80°,J,T,No,No,Ir,R @ 108.2-108.9'		
							109				0°,B,N,No,No,PI,SR @ 109.1', 109.2'		
									471				
							110				80°,J,T,No,No,Ir,R @ 110.0-111.0', 110.0-111.1'		
									470		90°,J,T,No,No,Ir,R 110.0-112.0'		
											0°,B,N,No,No,PI,SR @ 110.0', 110.2', 110.6'		
							111				fractured @ 110.0-110.2'		
									469		0°,B,N,UK,Sp,Ir,VR @ 111.1', 111.5', 111.8'		
							112				0°,B,MW (solutioned) @ 111.7'		
									468		0°,B,MW (solutioned) @ 112.1'		
							113						
PQ	18	5.0	5.0	3.0	100	60			467		0°,B,MW (solutioned) @ 113.7'		
							114						
									466				
							115						
									465		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'		
							116				80°,J,T,Ca,H,Ir,R @ 115.3-117.1'		
									464		DOLOMITE; argillaceous; very dark grayish brown; fresh; very strong; hard; massive; pitted; w/stylolites; (Bass Islands Group).		
							117				90°,J,T,No,No,Ir,VR @ 116.0-117.3'		
									463				
							118						
PQ	19	5.0	4.8	3.5	96	70			462				
							119				CLAY (CL); gray; medium plasticity, medium toughness, no dilatancy; hard; (Bass Islands Group).		
									461		0-10°B,MW (solutioned) @ 118.7'		
							120				DOLOMITE; argillaceous; very dark grayish brown;		

Core box #10 starts @ 114.0'.

Soft drilling @ 119.0'.



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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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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													
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	
PQ		20		5.0		3.8		1.1		76		22		120				460				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'																					
				121.0										121				459																									
														122				458																									
														123				457				50°, J, N, No, No, Ir @ 122.6' (slightly weathered) 0°, B, N, No, No, Pl, 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'.	
														124				456				DOLOMITE; micritic; (Salina Group - Unit F).																				Core loss @ 124.5-126.0'.	
														125				455																									
				126.0										126				454				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'																					
														127				453																									
														128				452				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'																					
														129				451																									
														130				450				fractured @ 130.2-131.0' 0°, B, N, No, No, Ir, R @ 130.4', 130.5'																					
				131.0										131				449																								Core loss @ 131.1-132.3'.	
														132				448																									
														133				447				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'																					
														134				446				fracture zone @ 134.1-134.3'; fossiliferous; grayish brown limestone																				Core box #12 starts @ 134.1'.	
														135																													

**BLACK & VEATCH****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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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</i> <i>for</i> Bonnie/Ang/Grainger										CHECKED BY TB <i>GA</i> <i>Geo</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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
PQ	23	5.0	4.4	0.9	88	18	135		445		DOLOMITE; dark gray; micritic (Salina Group - Unit F)																												
							136		444		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'																												
							137		443		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'																												
							138		442																														
							139		441		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'																												
							140		440																														
							141		439		10°,B,N,No,No,PI,R @ 141.3', 141.7'																												
							142		438		LIMESTONE; argillaceous; gray; fine grained to very fine grained; moderately weathered; weak to moderately strong; moderately hard; pitted; (Salina Group - Unit F).																												
PQ	24	5.0	4.8	0.5	96	10	143		437		fractured/gravelly @ 143.5-144.7'																												
							144		436		highly weathered @ 144.5-144.7'																												
							145		435		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°,J,T,No,No,PI,SR @ 144.9-147.0'																												
							146		434																														
							147		433																														
PQ	25	5.0	2.5	0.0	50	0	148		432		CLAYSTONE; dolomitic; gray; slightly to moderately weathered; weak; moderately hard; w/softer gravelly zones & thin clayey dolomite layers; (Salina Group - Unit F).																												
							149		431																														
							150																																

Core box #13 starts @ 144.2'.

Sampler frequently jammed @ 146.0-148.0'.

**BLACK & VEATCH****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' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				
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				
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	26	5.0	4.0	1.6	80	32	150		430			
			151.0				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'	
			156.0				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			
			161.0				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					



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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' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				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			
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							
							165		415		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).		
PQ	29	3.3	3.2	1.2	97	36	166		414				
			166.0				167		413				
							168		412				
							169		411		dolomite partings to bands @ 169.0-169.5'	Material swelling in core barrel shoe.	
PQ	30	1.7	1.6	0.8	94	47	170		410		BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).		
			169.3				171		409		dolomite partings to bands @ 170.5-170.7'	Core box #15 starts @ 171.0'.	
							172		408		DOLOMITE; micritic; fractured (high angled joints & bedding planes); (Salina Group - Unit F).		
PQ	31	3.0	2.5	0.4	83	13	173		407				
							174		406		BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).	Prior to run 33, pulled back 10'; caved 0.5 to 1.0'. Washed back down to 176.0'.	
PQ	32	2.0	0.8	0.0	40	0	175		405		DOLOMITE; micritic; fractured; (Salina Group - Unit F).		
							176		404				
			174.0				177		403		BRECCIA; gray; poorly indurated claystone matrix; w/ dolomite clasts; micritic; gray; strong; ranging from sand size to >3"; (Salina Group - Unit F).		
PQ	33	4.0	2.1	0.0	52.5	0	178		402				
							179		401		DOLOMITE; micritic; fractured; (Salina Group - Unit F).		
			176.0				180						

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BORING LOG

BORING NO. CB-C2

SHEET 13 OF 19

CLIENT										PROJECT										PROJECT NO.					
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)		TOTAL DEPTH			
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START		DATE FINISHED			
SAMPLING										LOGGED BY										CHECKED BY		APPROVED BY			
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	DEPTH (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													
PQ	34	1.0	1.0	0.0	100	0	180.0		400		SAND; fine to coarse grained; (Salina Group - Unit F).	Core barrel jammed @ 180.0'.													
			181.0				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'.													
			186.0				186		394			Prior to run 36, pulled back 10'. Caved about 1.0'; washed back down to 186.0'.													
PQ	36	5.0	3.8	0.0	76	0	188		392		30°, J, PI, SR @ 187.9'														
							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).														
			191.0				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		385																



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BORING LOG

BORING NO. CB-C2

SHEET 14 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'					580.5 ft (NAVD 88)					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	
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			
PQ	38	5.0	2.2	0.0	44	0			195		385		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'.			
				196.0					196		384		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'.			
									197		383										
									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										
									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										
									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										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	
										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								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								210		370		fractured @ 210.1-210.2'									
			211.0					211		369		DOLOMITE; light gray; micritic; slightly weathered; strong; hard; closely spaced horizontal & vertical fractures filled w/gray limestone; (Salina Group - Unit F).	Core box #18 starts @ 211.0'.								
PQ	41	5.0	5.0	3.8	100	76		212		368		DOLOMITE; brecciated, healed; (Salina Group - Unit F).									
								213		367		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).									
								214		366		DOLOMITE; crystalline; light brownish gray; micritic; slightly weathered; strong; hard; w/limestone interlayered in upper 1.0'; (Salina Group - Unit F).									
			216.0					215		365		gradational contact over 1.0' @ 214.2'									
								216		364		0°, B,N,UK,Sp,Pl,SR @ 214.4', 214.5', 214.9', 215.4', 216.0', 216.1', 216.6', 216.9'									
								217		363		85-90°, J,T,Ca,H,Fi,Ir @ 216.0-217.0'									
								218		362		60°, J,N,Pl,SR @ 217.2-217.6', 218.2'									
PQ	42	5.0	3.1	0.4	62	8		219		361		0°, B,N,UK,Sp,Pl,SR @ 217.5', 217.8', 218.0', 218.3'									
								220		360		60°, J,Pl,SR @ 217.9-218.1'									
								221		359		fractured zone (core loss) @ 218.3-220.8'									
			221.0					222		358		LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).	Core box #19 starts @ 221.0'.								
								223		357		DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F).	Water level @ 23.4' on 08/01/07.								
								224		356		fractured zones @ 222.7-223.1', 223.4-223.9'									
PQ	43	5.0	4.5	0.9	90	18		225		355		LIMESTONE; vuggy; dark grayish brown; very fine grained; fresh; strong; hard; (Salina Group - Unit F).									
												60°, J,N,No,No,Ir,VR @ 223.9', 225.1'									
												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' E 4517.1'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										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													
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		44		5.0		4.5		0.8		90		16		225								DOLOMITE; light brownish gray; micritic; (Salina Group - Unit F).																					
														226								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'																					
														228								DOLOMITE; brownish gray; micritic; slightly weathered; strong; hard; w/calcite healed fractures; (Salina Group - Unit F). healed fracture @ 228.1-228.7'																					
														229								0-5° B,W (solutioned), R @ 228.3', 228.7', 228.9'																					
														230								80° J,Ca,H,Sp,Ir @ 228.4-228.8', 229.4-229.8'																					
														231								0-5° B,W (solutioned), R @ 230.0', 230.1', 230.6'																					
														232								healed fracture @ 230.3-230.6'																					
														233								BRECCIA; poorly cemented; dark grayish brown; crystalline limestone matrix; w/angular dolomite clasts; light brownish gray; micritic; (Salina Group - Unit F).																				Core box #20 starts @ 231.0'.	
														234																													
														235																													
														236								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'																					
														237																													
														238																													
														239																													
														240																													

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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' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				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			
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	
							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				DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; very strong; hard; medium bedded; w/stylolites; (Salina Group - Unit E).		
							250				10°, B, N, UK, Pa, WA, SR @ 247.2', 247.5', 248.2'		
							251				85°, J, T, Ca, Pa, Ir, SR @ 251.0-251.7'	Core box #21 starts @ 251.0'.	
							252				10°, B, N, UK, Pa, WA, SR @ 251.2', 252.3'		
							253				0°, B, N, UK, Pa, WA, SR @ 252.0', 252.2', 252.6', 252.7'		
PQ	50	5.0	5.0	3.8	100	76	254				0°, B, N, UK, Pa, WA, SR @ 254.0', 254.8'		
							255						



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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' E 4517.1'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				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	
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	
PQ	51	5.0	5.0	4.5	100	90	255				mottled, gray convoluted band @ 255.6-255.8'		
							256				0°B,N,UK,Pa,WA,SR @ 255.8'		
							257				5°B,N,No,No,PI,SR @ 256.0', 259.7'		
							258				0°B,N,UK,Su,WA,SR @ 256.7'		
							259				0°V,N, healed w/anhydrite & very fine dolomite chips @ 257.4'		
							260				65°J,T,anhydrite,Fi,Ir @ 257.4-258.1'		
							261						
							262						
							263						
							264						
							265						
							266						
							267						
							268						
							269						
							270						

BLACK & VEATCH

BORING LOG

BORING NO. CB-C2

SHEET 19 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 Bonnie/Ang/Grainger				CHECKED BY <i>EJ 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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG												
							270		- 310	[Pattern]	0-5°, V,N,anhydrite,Fi,Ir @ 268.4' -269.0'											
							271		- 309	[Pattern]	DOLOMITES; gray; micritic; fresh; very strong; hard; w/gypsum & anhydrite partings & veins; & shale partings; (Salina Group - Unit E).								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.			

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6341.4'				E 4673.8'				581.1 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Gravel parking lot						Plant				07/17/07		08/12/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Bonnie/Ang/Mass				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	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
S	1		1.3			NR	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.	
							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				
S	2		10.0			NR	15					Discrete sample S02A collected from 14.0-15.0'.	



BLACK & VEATCH

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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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 EJA TB for Dogbey/Bonnie TB										APPROVED BY EJA Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th>RQD</th> </tr> </table>										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	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	RQD																																																																																																																
S										3										15.0																																								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																														Fat CLAY (CH) - About 100% high plasticity, high toughness, no dilatancy, high dry strength fines; dark gray; soft; moist; no reaction w/HCl																																																											
TW										5										1.2																														Clayey GRAVEL with Sand (GC) - About 55% gravel w/max. size ¾"; about 26% LL=41, PL=11, no dilatancy fines; about 19% sand; grayish brown; hard; moist; (Glacial Till).																																																																					
SPT										6										12										27										27										54										1.5																				grades olive brown @ 21.0'																																							
SPT										7										18										27										36										63										1.0																				Sandy Silty CLAY (CL-ML) - About 59% LL=18, PL=11, no dilatancy fines; about 37% fine to coarse, subrounded sand; about 4% fine to coarse, subangular to subrounded gravel w/max. size ½", fractured w/2 hammer blows; dark gray; very hard; moist; (Glacial Till).																																							
SPT										8										9										29										23										52										1.0																				PP > 4.5 TSF @ 22.5'.																																							
																																																																						PP > 4.5 TSF @ 23.5'.																																																	
																																																																																PP > 4.5 TSF @ 26.0'.																																							
																																																																																grades w/max. gravel size 1½" @ 26.5'																																							
																																																																																										grades w/boulders																													
																																																																																																				Boulder @ 27.5'.																			
																																																																																																														Silty GRAVEL (GM) - About 70% coarse, subangular to subrounded, hard gravel w/max. size 1½"; about 30% low plasticity, low toughness, rapid dilatancy fines; grayish brown; very dense; wet; (Weathered Rock).									



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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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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 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																																																																																																																	
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																
SPT										9										34										14										26										40										1.0										30										551																				Poorly graded <u>GRAVEL</u> (GP) - About 90% fine to coarse, subangular gravel max. size 1½", fractured w/2 hammer blows; about 10% medium to coarse, subangular sand; gray; dense; wet; (Weathered Rock).																			
S										10																				32.5																				33										548																				<u>DOLOMITE</u> ; 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.																													
HQ										1										2.5										2.5										1.8										100										72										36										545										shale parting - 0°, B,T,WA,SR @ 36.1' 60°, J,T,No,No,PI,Healed @ 36.3-36.6', 36.35-36.5'																													
HQ										2										5.0										5.0										3.4										100										68										37										544										shale partings - 0°, B,T,PI,SR @ 37.3', 37.6', 37.85' 90°, J,T,CI,Sp,PI,SR @ 37.3-37.6'																													
																																																																						38										543																																							
																																																																																39										542										0°, J,VN,No,No,PI,SR @ 39.3', 40.2'																			
																																																																																40										541										90°, J,T,No,No,PI,SR @ 40.2-40.8', 42.0-43.2'																			
																																																																																41										540										0°, J,VN,No,No,PI,SR @ 40.8', 41.0', 41.2'																			
																																																																																42										539										<u>DOLOMITE</u> ; 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' 90°, J,T,No,No,PI,SR @ 43.9-44.3', 44.8-45.1', 43.6-43.8' (on edge of core)																			
																																																																																45										537																													



BLACK & VEATCH

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' E 4673.8'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
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								
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	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'.
							50		531			
HQ	4	5.0	4.6	3.8	92	76	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				20°,J,T,No,No,PI,SR @ 59.7-59.8'	

5/13/2008 10:07 AM DTE - Fermi 3 Geotech



BLACK & VEATCH

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' 581.1 ft (NAVD 88)										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																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th></th> </tr> </table>										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		DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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 6 5.0 5.0 4.5 100 90								60																				521																				DOLOMITE; gray; (Bass Islands Group). J,VN,No,No,WA,SR @ 60.5'										60.0										Core box #3 starts @ 61.1'.																									
								61																				520																				DOLOMITE; mottled; (Bass Islands Group). shale band @ 61.1-61.25										60.9																																			
								62																				519																				DOLOMITE; oolitic; (Bass Islands Group). 90°, F, T, No, No, WA, SR @ 61.5-64.5' (healed)										61.5																																			
								63																				518																																																																	
								64																				517																																																																	
HQ 7 5.0 5.0 3.0 100 60								65																				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'										64.6																																			
								66																				515																				SHALE; very dark gray; fresh; moderately strong; hard; fissile; (Bass Islands Group).										65.1																																			
								67																				514																				DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group). 80°, J, T, No, No, PI, SR @ 65.2-65.4'										65.2																																			
								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)										65.4																																			
								69																				512																														Water level @ 21.7' on 08/09/07.																																			
HQ 8 5.0 4.5 0.4 90 8								70																				511																																																																	
								71																				510																																																																	
								72																				509																																																																	
								73																				508																																																																	
								74																				507																																																																	
								75																																																																																					



BLACK & VEATCH

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' 581.1 ft (NAVD 88)										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 EUA 78kr Bonnie/Ang/Mass										CHECKED BY 8/14/07 Dogbey/Bonnie										APPROVED BY 5/11 Meyer									
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	LOGGED BY										CHECKED BY										APPROVED BY											
CORING										LOGGED BY										CHECKED BY										APPROVED BY									
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	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	70°, J, T, No, No, PI, SR @ 78.3-78.8'																														
							77	504	20°, J, T, No, No, PI, SR @ 79.5-79.6'																														
							78	503	45°, J, T, No, No, PI, SR @ 80.25-80.8'																														
							79	502	shale parting @ 81.25'																														
							80	501	brecciated, healed @ 81.25-81.7'																														
							81	500	10°, J, T, Cl, Sp, PI, SR @ 81.7'																														
							82	499	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'																														
							86	495	shale parting - 0°, B, VN, PI, SR @ 85.9'																														
							87	494	shale parting - 0°, B, VN, PI, SR @ 86.2'																														
							88	493	shale partings - 0°, B, VN, PI, SR @ 86.6', 87.1'																														
							89	492	pitted @ 87.2-87.8'																														
							90	491	DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).																														
							91	490	shale parting @ 88.3'																														
							92	489	SHALE; dark gray; (Bass Islands Group).																														
							93	488	DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).																														

**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'					581.1 ft (NAVD 88)					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	
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	12	4.0	1.25	0.8	31	20	90		491		0°,B,T,No,No,WA,SR @ 90.0'										
							91		490												
							92		489												
HQ	13	1.0	92.5	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	98.5	0.0	0	0	99		482												
			99.5				100		481												
HQ	16	1.5	1.5	0.5	100	35	101		480												
			101.0				102		479												
HQ	17	2.5	2.5	1.0	100	40	103		478												
			103.5				104		477												
							105		477												

5/13/2008 10:07 AM DTE - Fermi 3 Geotech



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' E 4673.8'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)			
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											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	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	ROD RECOVERY	PERCENT RECOVERY	ROD							
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				106	475					
							107	474					
							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	109	472					
							110	471					
							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'	
							112	469					
							113	468		shale partings - 0°, B, VN, Sp, PI, SR @ 112.7', 112.9', 113.0', 113.2' fragmented @ 113.0-113.2'		Water level @ 26.3' prior to drilling on 08/10/07.	
			113.5				114	467		shale partings - 0°, B, VN, Sp, PI, SR @ 113.6', 116.65' pitted @ 114.1-116.6'			
							115	466					
HQ	20	5.0	5.0	4.5	100	90	116	465		60°, J, T, No, No, PI, SR @ 116.1-116.5'			
							117	464					
							118	463		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, B, VN, anhydrite, Fi, PI, SR @ 117.1' anhydrite filled vug @ 117.4'			
							119	462		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'			
			118.5				120	462					



BLACK & VEATCH

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' E 4673.8'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
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 TB Dogbey/Bonnie				
								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						
HQ	21	5.0	3.8	1.6	76	32	120		461		brecciated, healed @ 120.1-120.5'	
							121		460		convoluted bedding @ 120.5-120.8'	
											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'	
							123		458		90°, J, T, No, No, PI, SR @ 122.1-122.3', 122.5-122.9', 123.0-123.5'	
											0°, B, VN, No, No, PI, SR @ 122.3', 122.4', 122.5', 122.7', 123.05', 123.25'	
							124		457		shale parting @ 122.35'	
							125		456		90°, J, T, No, No, PI, SR @ 125.0-125.5'	
							126		455		0°, B, VN, No, No, PI, SR @ 125.5', 126.0', 126.1', 126.3', 126.5'	
							127		454		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/gypsum beds, veins; (Salina Group - Unit F).	
							128		453		shale parting @ 126.65'	
											gypsum @ 126.65-126.7'	
											0°, B, VN, No, No, PI, SR @ 126.7', 126.9'	
											fragmented @ 126.7-127.1'	
							129		452		90°, J, VN, Ca, Fi, WA, SR @ 127.1-127.8'	
											gypsum band @ 127.1-127.3'	
											gypsum band @ 127.8-127.9'	
											90°, J, T, No, No, PI, SR @ 127.9-128.1'	
											gypsum band @ 128.0-128.1'	
							130		451		0°, B, T, No, No, PI, SR @ 130.1', 130.5', 130.65', 130.9', 131.15'	
											gypsum band @ 130.2-130.3'	
							131		450		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'	
							134		447		10°, J, T, No, No, PI, SR @ 133.1', 133.3'	
											limestone band @ 133.2-133.3'	
											limestone band @ 134.1-134.2'	
							135					

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Core box #7 starts @ 127.8'.



BLACK & VEATCH

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' 581.1 ft (NAVD 88)					TOTAL DEPTH 273.7 (feet)																																																																																																																																																																																																										
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	147		434		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F). 0°B,T,No,No,PI,SR @ 145.0'																																																																																																																																																																																																																				
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	149		432		CLAYSTONE; gray; highly weathered; weak; low hardness; w/interbedded dolomite & limestone bands; (Salina Group - Unit F). dolomite; argillaceous @ 148.8-149.2'																																																																																																																																																																																																																				
					90°J,T,No,No,PI,SR @ 149.0-149.2'																																																																																																																																																																																																																				
	150				60°J,T,No,No,PI,SR @ 149.1-149.2'																																																																																																																																																																																																																				

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6341.4'					E 4673.8'					581.1 ft (NAVD 88)		273.7 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		08/12/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Ang/Mass					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				
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								150		431		dolomite band; argillaceous @ 149.5-149.6'					Core box #8 starts @ 151.0'				
												slightly weathered @ 150.2-150.4'									
								151		430		dolomite band @ 150.4-150.6'									
												slightly weathered @ 150.6-150.8'									
												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		428		dolomite band @ 152.9-153.0'									
												slightly weathered @ 153.0-153.2'									
								154		427											
HQ	31	2.5	0.5	0.0	20	0		155		426											
								156		425		dolomite band @ 156.1-156.3'									
								157		424		dolomite @ 157.2-157.5'									
HQ	32	2.5	0.9	0.0	36	0		158		423		dolomite @ 158.1-158.4'									
								159		422		dolomite band @ 158.9-159.0'									
HQ	33	2.5	1.3	0.4	52	16		160		421		BRECCIA; poorly indurated to indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of claystone; gray; fresh; strong; hard; (Salina Group - Unit F).									
								161		420		limestone @ 161.4-161.5'									
HQ	34	2.5	2.0	0.0	80	0		162		419											
								163		418											
								164		417											
HQ	35	2.5	1.2	0.0	48	0		165													

**BLACK & VEATCH****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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)		TOTAL DEPTH 273.7 (feet)	
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 08/12/07	
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer	
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	
HQ	36	2.5	1.5	0.0	60	0	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'									
							167		414					dolomite band @ 166.2-166.4'									
							168		413					0° B, T, No, No, PI, SR @ 166.6' 30°, J, T, No, No, PI, SR @ 166.6-166.7'									
							169		412					dolomite band @ 166.6-166.8'									
HQ	37	2.5	1.2	0.0	48	0	170		411					dolomite band @ 168.0-168.2'									
			168.5				171		410					dolomite band @ 169.2-169.4'									
							172		409					dolomite band @ 169.8-169.9'									
							173		408					BRECCIA; poorly indurated claystone matrix; gray; slightly weathered; weak; low hardness; w/clasts of claystone; gray; fresh; strong; hard; (Salina Group - Unit F).									
HQ	38	2.5	2.0	0.0	80	0	174		407					dolomite @ 170.1-170.3'									
							175		406					dolomite @ 171.6-171.9'									
							176		405					dolomite @ 173.1-173.3'									
							177		404					dolomite @ 176.5-176.7'									
							178		403														
							179		402														
HQ	41	2.5	0.0	0.0	0	0	180																

**BLACK & VEATCH****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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07										DATE FINISHED 08/12/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY Bonnie/Ang/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer									
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									
										180										401																			
										181										400																			
HQ 42 2.5 0.3 0.0 12 0										182										399										dolomite; gray @ 181.5'									
										183										398										dolomite; grayish brown @ 183.0'									
										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										395																			
HQ 44 2.5 0.5 0.0 20 0										187										394										dolomite; brownish gray layers @ 186.5'									
										188										393																			
										189										392																			
HQ 45 2.5 2.1 1.7 84 68										190										391										BRECCIA; 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										390																			
HQ 46 2.5 1.0 0.0 40 0										192										389										BRECCIA; 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										388																			
										194										387																			
HQ 47 2.5 0.6 0.0 24 0										195										386										BRECCIA; 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).									

Core box #9 starts @ 186.0'. Claystone possibly washed out during coring.



BLACK & VEATCH

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' 581.1 ft (NAVD 88)										TOTAL DEPTH 273.7 (feet)																																																																																																																																																																															
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brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		199		382		80° J,T,No,No,PI,SR @ 197.0-198.1'		200		381		10° B,T,No,No,PI,SR @ 197.0', 197.4', 197.5', 197.6'		201		380		shale partings @ 197.4'		202		379		grades banded, light gray @ 197.6'		203		378		BRECCIA; indurated limestone matrix; very dark gray; micritic; fresh; strong; hard; w/clasts of claystone; pale yellow; moderately strong; moderately hard; (Salina Group - Unit F).		204		377		0° B,VN,No,No,PI,SR @ 199.5', 199.9'		205		376		10° J,VN,No,No,PI,SR @ 200.6', 200.7'		206		375		0° B,VN,No,No,PI,SR @ 201.4', 201.7'		207		374		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		208		373		0° B,VN,No,No,PI,SR @ 202.3'		209		372		90° J,VN,Ca,Fi,WA,SR @ 201.8-202.3'		210				0° B,VN,No,No,PI,SR @ 204.0', 204.2'						black shale seam @ 204.4-204.5'						LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F).						0° B,VN,No,No,PI,SR @ 204.7', 205.3'						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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Core box #10 starts @ 203.5'.



BLACK & VEATCH

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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)		TOTAL DEPTH 273.7 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 08/12/07									
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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			
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'																	
										214		367																			
HQ 52 5.0 4.6 2.5 92 50										215				366				DOLOMITE; 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'										Core box #11 starts @ 218.5'.			
										216		365		shale parting @ 215.8' some vugs filled w/claystone @ 216.0', 217.0'																	
										217		364		LIMESTONE; 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'																	
										219		362		dolomite; light yellowish brown @ 218.7-219.1' 80°,J,VN,Ca,Fi,PI @ 218.7-218.9', 218.95-219.1'																	
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		BRECCIA; 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'																	
										222		359		LIMESTONE; very dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F). 0°,B,T,Ca,Sp,PI,SR @ 222.3', 224.4'																	
										223		358		0°,B,VN,Ca,Fi,PI,SR @ 222.7', 222.9', 223.1', 223.3' fragmented @ 222.9-223.1'																	
										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																	

BLACK & VEATCH

BORING LOG

BORING NO. CB-C3

SHEET 16 OF 19

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6341.4'					E 4673.8'					581.1 ft (NAVD 88)		273.7 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					07/17/07		08/12/07				
SAMPLING										LOGGED BY					CHECKED BY		APPROVED BY				
										Bonnie/Ang/Mass					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								
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	55	5.0	1.9	0.0	38	0	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				fractured @ 228.5-229.0									
								229		352											
								230		351		0°, B, VN, Ca, Sp, PI, SR @ 230.1', 230.25'									
HQ	56	5.0	2.9	0.4	58	8	8	231		350		0°, B, VN, Ca, Sp, PI, SR @ 230.8', 230.95'									
								232		349		231.7' 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'									
								233.5				fractured @ 232.3-232.5'									
								234		347		fractured @ 232.7-232.9'									
								235		346											
HQ	57	5.0	2.9	0.0	58	0	0	236		345		235.8' CLAYSTONE; gray; micritic; highly weathered; very weak; low hardness; (Salina Group - Unit F).									
								237		344		236.3' 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'									
								238		343		40°, J, T, No, No, PI, SR @ 237.6-237.7'									
								238.5				dolomite; gray @ 238.1-238.5'									
								239		342											
								240				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.								



BLACK & VEATCH

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' 581.1 ft (NAVD 88)										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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HQ										58										5.0										4.5										3.3										90										66										240										341										dolomite band @ 239.5-239.6'										Core box #12 starts @ 240.7'.									
HQ										59										5.0										4.9										2.75										98										55										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).																			
HQ										60										5.0										4.3										2.75										86										55										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'																			
HQ										61										5.0										4.3										2.75										86										55										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).																			
HQ										62										5.0										4.3										2.75										86										55										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'																			
HQ										63										5.0										4.3										2.75										86										55										245										336										dolomite clasts grade very pale brown @ 244.4'																			
HQ										64										5.0										4.3										2.75										86										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' limestone @ 246.2-246.6'																			
HQ										65										5.0										4.3										2.75										86										55										247										334										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'																			
HQ										66										5.0										4.3										2.75										86										55										248										333										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										67										5.0										4.3										2.75										86										55										249										332										0°, B, T, No, No, PI, SR @ 250.9', 251.1'																			
HQ										68										5.0										4.3										2.75										86										55										250										331										0°, B, T, No, No, PI, SR @ 252.2'																			
HQ										69										5.0										4.3										2.75										86										55										251										330										0°, B, T, No, No, PI, SR @ 254.1', 254.65'																			
HQ										70										5.0										4.3										2.75										86										55										252										329																													
HQ										71										5.0										4.3										2.75										86										55										253										328																													
HQ										72										5.0										4.3										2.75										86										55										254										327																													
HQ										73										5.0										4.3										2.75										86										55										255										326																													

**BLACK & VEATCH****BORING LOG**

BORING NO. CB-C3

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																																	
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**BLACK & VEATCH****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' E 4673.8'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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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HQ	64	5.0	5.0	4.4	100	88	270				311		0°,B,T,No,No,Pl,SR @ 269.6', 269.7' grades gray @ 270.2'		0°,B,T,No,No,Pl,SR @ 270.3'	Core box #14 starts @ 270.5'. DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/gypsum bands & nodules; (Salina Group - Unit E). grades gray @ 272.1' 0°,B,T,No,No,Pl,SR @ 272.1', 272.7' grades grayish brown @ 272.8' gypsum bands & nodules @ 272.9-273.4'																																																																																			
							271				310		0°,B,T,No,No,Pl,SR @ 270.85', 271.6'																																																																																						
							272				309																																																																																								
							273				308																																																																																								
							274				307				Bottom of boring @ 273.7'. Water level @ 24.5' @ completion of drilling. Boring backfilled w/ bentonite chips on 09/21/07.																																																																																				
							275				306																																																																																								
							276				305																																																																																								
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**BLACK & VEATCH****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' E 4663.3'				GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)				
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 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						
							0				COBBLES with Gravel & 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).	Boring advanced w/vacuum excavation.
			2.0				1		580			
							2		579			Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.
S	1					NR	3		578			
							4		577			
							5		576			
							6		575			
			6.5				7		574			
							8		573			
							9		572			
							10		571			
S	2					NR	11		570			Discrete sample S02A collected @ 10.5-11.5'.
							12		569			
							13		568			
							14		567		Lean CLAY (CL) - About 100% LL=45, PL=16, no dilatancy, high dry strength fines; olive gray; firm; moist; no reaction w/HCl; homogeneous	Discrete sample S02B collected @ 13.0-14.0'. Set nominal 6" temporary steel casing to 13.5'. Hole was
			14.0				15		566		Lean CLAY (CL) - About 87 to 88%, LL=32, PL=16,	

**BLACK & VEATCH****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' E 4663.3'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										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 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																																																	
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																				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		5										1.9		17		563						grades w/trace fine to coarse, subrounded sand; olive brown																				PP = 4.0 TSF @ 22.0'.																			
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																				PP > 4.5 TSF @ 24.5'.																			
SPT		7		19		23		25		48		1.4		19		561						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).																				PP > 4.5 TSF @ 26.0'.																			
SPT		8		9		50/5"		50+		0.9		0.9		20		560																																													
S		9				28.5						1.5		21		559																																													
														22		558																																													
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														26		554																																													
														27		553																																													
														28		552						DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).																				Below 28.5' continued w/4" ID sonic continuous sampler w/																			
														29		551																																													
														30																																															

4/7/2008 6:28 PM DTE - Fermi 3 Geotech



BLACK & VEATCH

BORING LOG

BORING NO. CB-C4

SHEET 3 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'		580.8 ft (NAVD 88)		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 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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							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'.
HQ	1	3.0	3.0	0.5	100	17	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		548			
							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.
HQ	2	5.0	5.0	1.2	100	24	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'	
							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).	
							44		537			Core box #2 starts @ 43.5'.
							45		536			

CLIENT										PROJECT										PROJECT NO.																			
Detroit Edison										Fermi 3 COL Application										147483																			
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, MI					N 6230.3'					E 4663.3'					580.8 ft (NAVD 88)		133.5 (feet)																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																						
Gravel parking lot										Plant					07/17/07		08/08/07																						
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																			
										TB Bonnie/Ang/Mass					TB for Dogbey/Bonnie					TB Meyer																			
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		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		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' 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'																	
						48.5								46				534																					
														47				533																					
														48				532																					
														49				531				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				530				0°, J, UK, FI, PI, SR @ 50.6'																	
HQ		5		5.0		5.0		5.0		100		100		51				529				30°, J, No, No, PI, R @ 51.7-51.8'																	
														52				528				30°, J, anhydrite, FI, PI, SR @ 52.8-52.9', 53.6-53.7'																	
														53				527				brecciated, healed; grayish brown @ 53.6' 0°, J, anhydrite, FI, PI, SR @ 53.7'					Water level @ 21.0' prior to drilling on 08/07/07.												
						53.5								54				526				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'																	
														55				525				50°, J, T, No, No, PI, SR @ 55.3-55.5' grades light yellowish brown @ 55.5'																	
HQ		6		5.0		5.0		3.0		100		60		56				524				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'.												
														57				523				DOLOMITE; light gray & dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group). shale; very dark gray @ 56.9-57.1'																	
						58.5								58				522				DOLOMITE; oolitic; light yellowish brown; very fine grained; fresh; strong; hard; (Bass Islands Group).																	
														59				521				20°, J, T, No, No, PI, SR @ 59.5-59.6'																	
														60																									

CLIENT										PROJECT										PROJECT NO.																								
Detroit Edison										Fermi 3 COL Application										147483																								
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																													
Monroe, MI					N 6230.3'					E 4663.3'					580.8 ft (NAVD 88)					133.5 (feet)																								
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																								
Gravel parking lot										Plant					07/17/07					08/08/07																								
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																								
										Bonnie/Ang/Mass					Dogbey/Bonnie					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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS												
HQ		7		3.5		3.3		2.5		94		71		60				520																										
						62.0								61				519																										
HQ		8		1.5		1.5		0.0		100		0		62				518																										
						63.5								63				517																										
														64				516																										
HQ		9		5.0		5.0		2.5		100		50		65				515																										
														66				514																										
														67				513																										
						68.5								68				512																										
														69				511																										
HQ		10		5.0		5.0		4.3		100		86		70				510																										
														71				509																										
														72				508																										
														73				507																										
						73.5								74				506																										
														75				505																										

**BLACK & VEATCH****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'		580.8 ft (NAVD 88)		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 m for Dogbey/Bonnie		APPROVED BY 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						
HQ	11	5.0	5.0	4.7	100	94	75		505			
							76		504		breccia, healed, thin bedded @ 76.5-76.9'	
							77		503		45°, J, T, No, No, Ir, R @ 76.8-77.0', 77.2-77.4'	
							78		502		BRECCIA; healed; (Bass Islands Group)	
							79		501		80°, J, T, No, No, PI, SR @ 78.0-78.2'	
							80		500		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).	
							81		499		0°, B, VN, No, No, PI, SR @ 79.4'	
							82		498		dolomite; argillaceous; grayish brown; micritic; fresh; strong; hard @ 79.8-80.0'	
							83		497		30°, J, VN, UK, Fi, PI, SR @ 79.95-80.1'	
							84		496		shale partings - 0°, B, VN, PI, SR @ 80.0', 80.9'	
							85		495		0°, B, T, No, No, PI, SR @ 81.5', 82.3'	
							86		494		65°, J, T, No, No, PI, SR @ 81.5-81.95'	
							87		493		90°, J, T, No, No, WA, R @ 82.1-82.4'	
							88		492		shale partings - 0°, B, VN, PI, SR @ 82.5', 82.9'	
							89		491		10°, B, T, No, No, PI, SR @ 83.2'	
							90				0°, J, VN, No, No, Ir, SR @ 83.4'	
											DOLOMITE; argillaceous; dark gray & light gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
											SHALE; (Bass Islands Group).	
											brecciated, healed @ 84.3-84.8'	
											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'	
											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' 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'	
											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'	
											grades light grayish brown @ 88.8'	

**BLACK & VEATCH****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' E 4663.3'				GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)				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 <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	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD									
CORING															
HQ	14	5.0	5.0	3.0	100	60	90				10°, J, VN, CI, Sp, WA, SR @ 90.7'				
							91		490		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'				
							92		489		pitted @ 91.2-91.3'				
											0°, B, T, No, No, PI, SR @ 91.8'				
											anhydrite filled healed fracture @ 92.0-92.3'				
							93		488		shale parting @ 92.2'				
											0°, B, T, No, No, PI, SR @ 93.0'				
			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'				
							95		486		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	96		485		fragmented @ 95.6-95.8'				
											20°, J, T, No, No, PI, SR @ 95.8-96.05'				
											DOLOMITE; grayish brown; micritic; fresh; strong;				
											hard; banded; (Bass Islands Group).				
							97		484		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'				
			98.5				99		482		DOLOMITE; 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'				
							100		481		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	101		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'				
							102		479		shale partings - 0°, B, VN, PI, SR @ 101.65', 101.85'				
							103		478		0°, B, T, No, No, PI, SR @ 102.4'				
			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'				

Core box #6 starts @ 93.5'.

95.8'

98.9'

BLACK & VEATCH

BORING LOG

BORING NO. CB-C4

SHEET 8 OF 10

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6230.3'				E 4663.3'				580.8 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Gravel parking lot						Plant				07/17/07		08/08/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						ECA TB for Bonnie/Ang/Mass				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													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	17	5.0	4.8	2.7	96	54	105				shale partings - 0°,B,T,PI,SR @ 104.7',105.5',105.6'	Core box #7 starts @ 108.5'.	
							106				80°,J,T,No,No,PI,SR @ 105.55-106.6'		
							107				shale parting - 0°,B,T,PI,SR @ 106.6'		
							108				shale parting - 0°,B,T,PI,SR @ 107.9'		
			108.5				109				shale partings - 0°,B,VN,PI,SR @ 108.7',108.9'		
							110				grades grayish brown @ 109.5'		
HQ	18	5.0	4.9	3.1	98	62	111				10°,J,T,No,No,PI,SR @ 112.0' 20°,J,T,No,No,PI,SR @ 112.1' 30°,J,T,anhydrite,Sp,PI,SR @ 112.2-112.3' 80°,J,T,No,No,PI,SR @ 112.7-113.2' 0°,B,T,No,No,PI,SR @ 112.7', 112.8', 113.3'		
							112				90°,J,T,anhydrite,Sp,PI,SR @ 113.5-115.0'		
			113.5				114						
							115				70°,J,T,No,No,PI,SR @ 114.7-114.9'		
HQ	19	5.0	3.7	1.4	74	28	116				shale partings - 0°,B,VN,PI,SR @ 115.3',115.7',116.0'		
							117				40°,J,T,No,No,PI,SR @ 116.0-116.1'		
							118				DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
							119						
			118.5				120				90°,J,T,No,No,PI,SR @ 119.1-119.6'		
											DOLOMITE; grayish brown & gray, banded; micritic; fresh; strong; hard; (Salina Group - Unit F).		

BLACK & VEATCH

BORING LOG

BORING NO. CB-C4

SHEET 9 OF 10

CLIENT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application									
PROJECT LOCATION										COORDINATES									
Monroe, MI										N 6230.3' E 4663.3' 580.8 ft (NAVD 88)									
SURFACE CONDITIONS										GROUND ELEVATION (DATUM)									
Gravel parking lot										133.5 (feet)									
COORDINATE SYSTEM										DATE START									
Plant										07/17/07									
DATE FINISHED										08/08/07									
SAMPLING										LOGGED BY									
										Bonnie/Ang/Mass									
CHECKED BY										APPROVED BY									
Dogbey/Bonnie										Meyer									
SAMPLE TYPE										DEPTH (FEET)									
SAMPLE NUMBER										SAMPLE TYPE									
SET 6 INCHES										ELEVATION (FEET)									
2ND 6 INCHES										GRAPHIC LOG									
3RD 6 INCHES										CLASSIFICATION OF MATERIALS									
N										REMARKS									
VALUE																			
SAMPLE RECOVERY																			
CORING																			
CORE SIZE																			
RUN NUMBER																			
RUN LENGTH																			
RUN RECOVERY																			
RQD																			
PERCENT RECOVERY																			
RQD																			
HQ	20	5.0	4.1	0.3	82	6	120	460		0° B,T,No,No,PI,SR @ 119.2', 119.4', 119.55', 119.6', 119.7'									
							121	459		DOLOMITE; gray; micritic; fresh; strong; hard; w/ bands of anhydrite; (Salina Group - Unit F).									
							122	458		0° B,T,No,No,PI,SR @ 120.1', 120.4', 120.5', 120.9', 121.1', 121.3'									
							123	457		80° J,T,No,No,PI,SR @ 120.6-120.8', 121.3-121.6', 122.5-122.7'									
							124	456		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'									
							125	455		0° B,VN,Ca,Fi,PI,SR @ 122.2'									
							126	454		fractured @ 122.5-122.6'									
							127	453		10° J,T,No,No,PI,SR @ 123.0'									
							128	452		fractured @ 123.0-123.3'									
							129	451		anhydrite beds @ 123.8-123.9', 124.6-124.8'									
							130	450		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	449		10° J,T,No,No,PI,SR @ 125.8'									
							132	448		grayish brown; w/anhydrite beds @ 126.1-126.7'									
							133	447		light gray; micritic; fresh; strong; hard; thin limestone bed @ 127.1-127.4'									
							134	446		fractured @ 127.3-127.4'									
							135	445		light gray; micritic; fresh; strong; hard; thin limestone bed @ 127.7-127.8'									
							136	444		LIMESTONE; light gray; micritic; fresh to slightly weathered; strong; hard; (Salina Group - Unit F).									
							137	443		0° B,T,No,No,PI,SR @ 129.9', 130.1', 130.2', 130.3', 130.5'									
							138	442		0° B,T,No,No,PI,SR @ 129.9', 130.1', 130.2', 130.3', 130.5'									
							139	441		0° B,T,No,No,PI,SR @ 131.2', 131.5', 131.7', 131.8'									
							140	440		90° J,T,No,No,PI,SR @ 131.9-132.0'									
							141	439		0° B,T,No,No,PI,SR @ 132.0'									
							142	438		claystone; highly weathered @ 132.1-132.7'									
							143	437		vuggy @ 133.1'									
							144	436		0° B,T,No,No,PI,SR @ 133.3'									
							145	435											
							146	434											
							147	433											
							148	432											
							149	431											

**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' E 4663.3'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										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 E.A. TTB Bonnie/Ang/Mass										CHECKED BY D. F. TTB Dogbey/Bonnie										APPROVED BY Meyer f.m.																				
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <td>DEPTH (FEET)</td> <td>SAMPLE TYPE</td> <td>ELEVATION (FEET)</td> <td>GRAPHIC LOG</td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS										REMARKS									
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																																															
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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																																															
										135										backfilled w/ bentonite chips on 09/13/07.																														
										136																																								
										137																																								
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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' E 4663.4'					GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)				
SURFACE CONDITIONS Gravel parking lot, northeast corner					COORDINATE SYSTEM Plant					DATE START 07/17/07				
					DATE FINISHED 07/28/07									
LOGGED BY <i>EA</i> Mass/Ang/Grainger					CHECKED BY <i>im for</i> Dogbey/Bonnie					APPROVED BY <i>EA</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													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD						
								0		581		Well-graded GRAVEL 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		575		Well-graded GRAVEL 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		6.0				NR	7		574			
								8		573			
								9		572			
								10		571		Well graded GRAVEL 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			
								13		568		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; olive gray; soft to firm; moist; homogeneous; (Lacustrine Deposit).	
S	3		11.5				2.3	14		567			
								15		566			



BLACK & VEATCH

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' E 4663.4'										GROUND ELEVATION (DATUM) 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 TBC for BO for Mass/Ang/Grainger										CHECKED BY TBC for Dogbey/Bonnie										APPROVED BY SM Meyer																																																																		
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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									
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																																								
																				15																														15.3										<p>Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; hard; moist; (Glacial Till).</p> <p>Lean <u>CLAY</u> (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).</p> <p>Lean <u>CLAY</u> 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'.</p> <p><u>DOLOMITE</u>; weathered</p> <p><u>DOLOMITE</u>; light brownish gray; crystalline; micritic; fresh; strong; hard; (Bass Islands Group).</p>																																				
TW										4										15.0																																																																												
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BLACK & VEATCH

BORING LOG

BORING NO. CB-C5

SHEET 4 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483			
PROJECT LOCATION Monroe, MI					COORDINATES N 6123.0' E 4663.4'					GROUND ELEVATION (DATUM) 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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>TP for GCR Gof</i> Mass/Ang/Grainger					CHECKED BY <i>TP for TB</i> Dogbey/Bonnie					APPROVED BY <i>Em</i> Meyer			
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	
PQ 4 5.0 5.0 1.3 100 26										45				536				DOLOMITE; oolitic; light brownish gray; crystalline; fresh; strong; hard; w/stylolites; (Bass Islands Group).				Core box #3 starts @ 49.3'.	
										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'									
										49		532											
PQ 5 5.0 5.0 4.3 100 86										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 #4 starts @ 58.8'.	
										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'									
										53		528		10°, B,N,No,No,PI,R @ 53.4',54.7'									
										54		527		argillaceous parting @ 54.2',54.5'									
PQ 6 5.0 5.0 2.3 100 46										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'									
										57		524		0-5°, B,N,Cl,Su,Ir,R @ 57.6',57.9',58.1'									
										58		523											
										59		522											
										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'							

**BLACK & VEATCH****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	
SAMPLING										LOGGED BY TB for <i>MA</i> G.O. <i>CV</i> Mass/Ang/Graindel					CHECKED BY TB for <i>IM</i> <i>JB</i> Dogbey/Bonnie					APPROVED BY <i>SM</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									
PQ	7	5.0	5.0	2.8	100	56	60		521		fractured @ 59.5-63.1' 0-5°, B,N,Ci,Su,Ir,R @ 60.0',60.4',60.7'	No drilling fluid return @ 60.8-61.0'.									
			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'										
							62		519												
							63		518		0-5°, B,UK,Sp,WA,R @ 62.6',62.8',63.1'										
							64		517		DOLOMITE; 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'	Core box #5 starts @ 67.6'.									
PQ	8	5.0	5.0	3.5	100	70	68		513												
							69		512		0-5°, J,No,No,Ir,VR @ 69.2',69.8'										
							70		511		0-5°, J,No,No,Ir,VR @ 70.3' 0°, B,W,Ci,Fi,Ir,VR @ 70.5'										
			71.0				71		510												
							72		509		DOLOMITE; 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												

**BLACK & VEATCH****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							
SAMPLING				LOGGED BY <i>WA 60 fa</i> Mass/Ang/Grainger				CHECKED BY <i>Em 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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS			
PQ	10	5.0	5.0	2.8	100	56	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'				
							79		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'				
							80		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				87		494		85-90°, J,T,H,Ir @ 86.3-86.7'	Core box #7 starts @ 86.0'.			
							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	89		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'				
							90		491						

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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' E 4663.4'										GROUND ELEVATION (DATUM) 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 TBLR GOR Mass/Ang/Grainger										CHECKED BY F.M. TB Dogbey/Bonnie										APPROVED BY EM 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										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																																							
PQ 16 5.0 4.6 1.9 92 38										105 476																														60°J (solutioned) @ 105.5-106.0' 0°B,N,No,No,Ir,SR (solutioned) @ 105.6' 80°J,W,Ca,Fi,Ir (solutioned) @ 106.1-107.1'										Soft drilling @ 106.0-110.0'. Core box #9 starts @ 106.0'.																																							
										106 475																																																																															
										107 474																																																																															
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PQ 17 5.0 4.4 0.5 88 10										112 469																																																																															
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PQ 18 5.0 1.5 0.0 30 0										117 464																																																																															
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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	
										Mass/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					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
							120		461												
			121.0				121		460												
PQ	19	2.5	2.5	0.5	100	20	122		459												
							123		458												
			123.5				124		457												
PQ	20	2.5	2.2	0.0	88	0	125		456												
							126		455												
			126.0				127		454												
							128		453												
PQ	21	5.0	2.6	0.0	52	0	129		452												
							130		451												
							131		450												
							132		449												
							133		448												
							134		447												
							135		446												

**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' E 4331.1'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				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 F.B. J. Dogbey/Bonnie		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							
							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		573				
S	1		7.0			1.4	8		572				
							9		571				
							10		570				
							11		569				
							12		568				
							13		567				
S	2		10.0			3.0	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' E 4331.1'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 S-Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (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	PERCENT RECOVERY	RQD																																																																																																																	
TW										3										15.0										1.5										15										565										<p>Fat <u>CLAY</u> (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.</p>										<p>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'.</p>																																																	
SPT										4										4										8										10										18																														1.4										16										564																			
TW										5										1.2										17										563																																																																															
SPT										6										8										12										14										26										NR										18										562										<p>Lean <u>CLAY</u> (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).</p>										<p>Lean <u>CLAY</u> (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).</p>										<p>PP > 4.5 TSF @ 21.7'. Drill chatter @ 22.5'.</p>									
TW										6										8										12										14										26										1.2										19										561																																							
SPT										6										8										12										14										26										NR										20										560																																							
TW										6										8										12										14										26										NR										21										559										<p>Lean <u>CLAY</u> (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).</p>										<p>PP > 4.5 TSF @ 21.7'. Drill chatter @ 22.5'.</p>																			
SPT										6										8										12										14										26										NR										22										558																																							
TW										6										8										12										14										26										NR										23										557																																							
SPT										6										8										12										14										26										NR										24										556										<p>Lean <u>CLAY</u> (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).</p>										<p>PP > 4.5 TSF @ 21.7'. Drill chatter @ 22.5'.</p>																			
TW										6										8										12										14										26										NR										25										555																																							
SPT										6										8										12										14										26										NR										26										554																																							
TW										6										8										12										14										26										NR										27										553										<p>Lean <u>CLAY</u> (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).</p>										<p>PP > 4.5 TSF @ 21.7'. Drill chatter @ 22.5'.</p>																			
SPT										6										8										12										14										26										NR										28										552																																							
TW										6										8										12										14										26										NR										29										551																																							
SPT										6										8										12										14										26										NR										30										550										<p>Lean <u>CLAY</u> (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).</p>										<p>PP > 4.5 TSF @ 21.7'. Drill chatter @ 22.5'.</p>																			
TW										6										8										12										14										26										NR										31										549																																							
SPT										6										8										12										14										26										NR										32										548																																							

**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' E 4331.1'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 <i>600</i> Bonnie/Grainger										CHECKED BY TB <i>800</i> Dogbey/Bonnie										APPROVED BY TB <i>EM</i> Meyer																																																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																					
SPT										7										50/4"										-										-										50+										0										30										550																																																											

**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' E 4942.6'										GROUND ELEVATION (DATUM) 579.9 ft (NAVD 88)										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																																																																							
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																																																																																	
														0								COBBLES - 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).																				Boring advanced w/vacuum excavation.																																																											
												1																																																																																									
												2																																																																																									
												3																																																																																									
												4																																																																																									
												5																																																																																									
						6.0						6										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.																																																																															
												7																																																																																									
S		1										8																																																																																									
												9																																																																																									
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S		2										3.0																																																																																									
														15																																																																																							

**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'				GROUND ELEVATION (DATUM) E 4942.6' 579.9 ft (NAVD 88)				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>Gofer</i> Grainger		CHECKED BY <i>Em</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 RECOVERY	PERCENT RECOVERY	RQD							
							15				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'.	
TW	3		16.0			1.6	16		564				
							17		563				
							18		562				
SPT	4	7	7	11	18	1.3	19		561		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).		
							20		560				
							21		559				
TW	5					2.1	22		558		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'.	
							23		557				
							24		556				
							25		555				
SPT	6	50/0.2	-	-	50+	NR	26		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		553				
							28		552				
							29		551				
							30		550				



BLACK & VEATCH

BORING LOG

BORING NO. EB/TSC-C2

SHEET 1 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6579.3' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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 Grainger/Bonnie/Mass										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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																																																																													
S 1										5.0										5.0																				<p>Poorly graded <u>GRAVEL</u> 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).</p>										<p>Boring advanced w/vacuum excavation.</p>																																	
S 2										10.0										4.0																				<p>grades w/boulders @ 5.0'</p>										<p>Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p>																																	
S 2										4.0										4.0																				<p>Lean <u>CLAY</u> (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & brown; firm; moist; musty odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).</p>										<p>Discrete sample SC2 collected @ 13.5-13.8'.</p>																																	

**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' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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 G. H. / TB Grainger/Bonnie/Mass										CHECKED BY E. M. / TB Dogbey/Bonnie										APPROVED BY Meyer E.M.																																																																																																			
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																										
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3/31/2008 6:57 PM DTE - Fermi 3 Geotech

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).

grades w/ trace fine, angular, hard gravel & wood fragments; brown & yellowish brown; very stiff; no odor; w/fine sand lenses

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).

grades w/subangular, very hard, dolomite cobbles w/ max. size 3.5" @ 22.6'

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).

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).

Sandy Lean CLAY (CL) - About 65% medium plasticity, medium toughness, slow dilatancy, high dry strength fines; about 35% fine to coarse, angular,

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'.

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.

Tricone refusal @ 29.0'. Core box #1

**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' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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 Grainger/TB Bonnie/Mass										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		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' 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'																																							
														33				548				0° J,VN,No,PI,SR @ 34.6'																																							
														34				547																																											
														35				546																																											
						35.5								36				545																																											
														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' 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' 10° B,VN,No,No,PI,SR @ 38.2' 90° J,T,No,No,PI,SR @ 38.6-39.1'																																							
														38				543																																											
														39				542																																											
														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' light brownish gray @ 41.6-42.1'																																							
														42				539																																											
														43				538				DOLOMITE; light gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																																							
														44				537																																											
														45								shale parting - 0° B,VN,PI,SR @ 44.6'																				Core box #3 starts @ 44.2'.																			



BLACK & VEATCH

BORING LOG

BORING NO. EB/TSC-C2

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6579.3' E 4697.2'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										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 Grainger/Bonnie/Mass										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																																																	
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' 60°, J, T, No, No, PI, SR @ 46.8-47.0', 46.8-46.9'																																							
														48				533				shale parting @ 48.0'																																							
														49				532				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'																																							
														50				531				55°, J, T, No, No, PI, SR @ 49.4'-49.5' grades w/stylolites @ 49.5' 40°, J, T, No, No, PI, SR @ 49.9-50.1' 90°, J, T, No, No, PI @ 50.0-50.5' grades mottled @ 50.1'																																							
														51																												Bottom of boring @ 50.5'. Water level @ 14.45' @ completion of drilling. Boring caved @ 49.35'. Piezometer installed on 09/11/07.																			
														52				530																																											
														53				529																																											
														54				528																																											
														55				527																																											
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														60				522																																											



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'		581.8 ft (NAVD 88)		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>granger TB for</i> Grainger/Mass		CHECKED BY <i>sm for TB 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	CLASSIFICATION OF MATERIALS				REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING							GRAPHIC LOG				
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)									
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								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'.
7		575									
8	S	574				2.5					
9		573									
10		572	10.0								
11		571									
12		570					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'.
13		569									
14	S	568				5.0	dark gray, organic lean clay @ 14.0-15.0'				
15		567									

BLACK & VEATCH

BORING LOG

BORING NO. EB/TSC-E3

SHEET 2 OF 9

CLIENT										PROJECT										PROJECT NO.																																																	
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																							
Monroe, MI										N 6567.3'										E 4819.5'										581.8 ft (NAVD 88)										130.5 (feet)																													
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																							
Paved street										Plant										08/21/07										08/23/07																																							
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																							
										TB for Grainger/Mass										TB for Dogbey/Mass										TB for Meyer																																							
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
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**BLACK & VEATCH****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' E 4819.5'										GROUND ELEVATION (DATUM) 581.8 ft (NAVD 88)										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>for TB for</i> Grainger/Mass										CHECKED BY <i>for TB for</i> Dogbey/Mass										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																																
CORING																																							
HQ	1	5.0	4.6	3.1	92	62		30		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'										casing advanced w/sampler. Core box #1 starts @ 28.0'. Sonic core S-8 stored in core box #1. Discrete sample SC3-A collected @ 28.2' for chemical analysis. Discrete sample SC3-B collected @ 28.3' for chemical analysis. 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'.																	
								31		550																													
								32		549		20°, J, Cl, Pa, Pl, SR @ 32.7'																											
								33		548		20°, J, Cl, Pa, Ir, SR @ 33.0-33.1'																											
								34		547		DOLOMITE; argillaceous; grayish brown; fresh; very strong; hard; w/within shale partings; (Bass Islands Group). 0°, B, Cl, Fi, Pl, SR @ 33.6'																											
								35		546																													
								36		545		vuggy @ 36.1-36.2'																											
								37		544		stylolites @ 36.5-39.4'																											
								38		543		0°, B, UK, Fi, Pl, SR @ 36.6', 37.7'																											
								39		542		90°, J, No, No, Pl, SR @ 36.6-36.7', 37.6-37.7'																											
HQ	2	5.0	5.0	4.0	100	80		40		541	shale partings - 0°, B, Pl, SR @ 36.7', 36.9', 37.4', 37.5', 38.6', 39.4'																												
								41		540	80°, J, T, Pl @ 37.0-37.4'																												
								42		539	closely to very closely spaced stylolites @ 37.9-38.3'																												
								43		538	90°, J, VC, WA @ 38.9-39.4'																												
								44		537	90°, J, No, No, Pl, SR @ 39.5-39.8', 39.9-40.4'																												
								45		536	90°, J, T, WA @ 39.6-40.4'																												
								46		535																													
								47		534	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'																												
								48		533	highly fractured @ 40.5-40.6'																												
								49		532	80°, J, UK, Fi, Ir, SR @ 40.9-42.3'																												
								50		531	0° B, No, No, Pl, SR @ 40.9'																												
								51		530	60°, J, No, No, Pl, SR @ 41.5-41.8'																												
								52		529	90°, J, No, No, Pl, SR @ 41.6-42.0'																												
HQ	3	5.0	4.9	1.6	98	32		53		528	70°, J, No, No, Pl, SR @ 43.1-43.9'																												
								54		527	0°, J, UK, Fi, Pl, SR @ 43.6', 43.7', 44.2'																												
								55		526	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'.																		



BLACK & VEATCH

BORING LOG

BORING NO. EB/TSC-E3

SHEET 4 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																																													
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white; soft; moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 45.7'</td> <td></td> </tr> <tr> <td>48</td> <td>HQ</td> <td>534</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 46.0'</td> <td></td> </tr> <tr> <td>49</td> <td></td> <td>533</td> <td></td> <td>pitted @ 46.2-46.7'</td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>532</td> <td></td> <td>DOLOMITE; light gray, banded; micritic; fresh; very strong; hard; widely spaced stylolites; (bands bedding parallel); (Bass Islands Group).</td> <td></td> </tr> <tr> <td>51</td> <td></td> <td>531</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 46.6'</td> <td></td> </tr> <tr> <td>52</td> <td></td> <td>530</td> <td></td> <td>bands @ 20° @ 46.8-48.7'</td> <td></td> </tr> <tr> <td>53</td> <td>HQ</td> <td>529</td> <td></td> <td>75°, J, No, No, PI, SR @ 47.8-48.2'</td> <td></td> </tr> <tr> <td>54</td> <td></td> <td>528</td> <td></td> <td>DOLOMITE; olive gray; pitted; micritic; slightly weathered; strong; hard; w/trace fossils (mollusks) & widely spaced stylolites; (Bass Islands Group).</td> <td></td> </tr> <tr> <td>55</td> <td></td> <td>527</td> <td></td> <td>shale band; black; platy; very fine grained; fresh; strong; hard; weathered contact w/surrounding dolomite @ 49.0-49.2'</td> <td></td> </tr> <tr> <td>56</td> <td></td> <td>526</td> <td></td> <td>85°, J, N to MW, No, No, PI, SR @ 49.2-50.0'</td> <td></td> </tr> <tr> <td>57</td> <td></td> <td>525</td> <td></td> <td>0°, J, Cl, Fi, PI, SR @ 49.7'</td> <td></td> </tr> <tr> <td>58</td> <td>HQ</td> <td>524</td> <td></td> <td>20°, J, MW, WA @ 51.0-51.2'</td> <td></td> </tr> <tr> <td>59</td> <td></td> <td>523</td> <td></td> <td>0°, J, UK, Pa, Ir, Slk (vertically oriented slickensides) @ 51.0-51.2'</td> <td></td> </tr> <tr> <td>60</td> <td></td> <td>522</td> <td></td> <td>0°, B, UK, Fi, PI, SR @ 51.0', 52.5', 52.6'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>shale partings - 0°, B, PI, SR @ 51.2', 51.7'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>closely spaced stylolites @ 53.8-54.5'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>DOLOMITE; 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moist; strong reaction w/HCl; slight hydrocarbon odor; homogeneous @ 45.7'		48	HQ	534		0°, J, Cl, Fi, PI, SR @ 46.0'		49		533		pitted @ 46.2-46.7'		50		532		DOLOMITE; light gray, banded; micritic; fresh; very strong; hard; widely spaced stylolites; (bands bedding parallel); (Bass Islands Group).		51		531		0°, J, Cl, Fi, PI, SR @ 46.6'		52		530		bands @ 20° @ 46.8-48.7'		53	HQ	529		75°, J, No, No, PI, SR @ 47.8-48.2'		54		528		DOLOMITE; olive gray; pitted; micritic; slightly weathered; strong; hard; w/trace fossils (mollusks) & widely spaced stylolites; (Bass Islands Group).		55		527		shale band; black; platy; very fine grained; fresh; strong; hard; weathered contact w/surrounding dolomite @ 49.0-49.2'		56		526		85°, J, N to MW, No, No, PI, SR @ 49.2-50.0'		57		525		0°, J, Cl, Fi, PI, SR @ 49.7'		58	HQ	524		20°, J, MW, WA @ 51.0-51.2'		59		523		0°, J, UK, Pa, Ir, Slk (vertically oriented slickensides) @ 51.0-51.2'		60		522		0°, B, UK, Fi, PI, SR @ 51.0', 52.5', 52.6'						shale partings - 0°, B, PI, SR @ 51.2', 51.7'						closely spaced stylolites @ 53.8-54.5'						DOLOMITE; 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BLACK & VEATCH

BORING LOG

BORING NO. EB/TSC-E3

SHEET 5 OF 9

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white; soft; moist; hydrocarbon odor; strong reaction w/HCl; homogeneous @ 61.5-61.6'	66		516		DOLOMITE; oolitic; light brownish gray; medium to coarse grained; fresh; strong; very hard; oolites approximately 0.02-0.04"; (Bass Islands Group).	67		515		90° J, VN, WA @ 61.6-63.5'	68	HQ	514		70° J, Ca, Fi, PI, SR @ 63.3-63.5'	69		513		90° J, No, No, PI, SR @ 63.3-64.4'	70		512		DOLOMITE; brecciated (healed); argillaceous; light gray & gray, banded; micritic; fresh; very strong; hard; w/black; micritic; fresh; strong; hard; shale partings; (Bass Islands Group). dolomitic shale; light gray & dark gray, mottled; very fine grained; fresh; strong; very hard @ 65.5-65.8'	Core box #4 starts @ 72.5'	71		511		claystone band; very dark gray; fresh; strong; hard; laminated @ 65.8-65.9'	72		510		10° J, T, Ca, Fi, PI @ 65.9'	73	HQ	509		shale parting - 0° B, Ir, R @ 67.3'	74		508		claystone parting; very dark gray; fresh; strong; hard; laminated @ 67.8'	75		507		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'					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'					50° J, Ca, Fi, PI, SR @ 69.0-69.3'					shale partings - 0° B, PI, SR @ 69.2', 69.6', 69.9'					gray; banding less pronounced; fewer shale partings @ 70.0-73.5'					70° J, Ca, CI, Pa, PI, SR @ 70.2-70.5'					150° J, CI, Pa, PI, SR @ 70.3-70.4'					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'					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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**BLACK & VEATCH****BORING LOG**

BORING NO. EB/TSC-E3

SHEET 6 OF 9

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																						
PROJECT LOCATION Monroe, MI										COORDINATES N 6567.3' E 4819.5'										GROUND ELEVATION (DATUM) 581.8 ft (NAVD 88)										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>GO for TB for</i> Grainger/Mass										CHECKED BY <i>sm TB for</i> Dogbey/Mass										APPROVED BY <i>sm</i> Meyer																																																																																																																																												
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7/16/2008 10:37 AM DTE - Fermi 3 Geotech

CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH	
Detroit Edison		Monroe, MI		N 6567.3'		E 4819.5'		581.8 ft (NAVD 88)	
SURFACE CONDITIONS				COORDINATE SYSTEM		DATE START		DATE FINISHED	
Paved street				Plant		08/21/07		08/23/07	
SAMPLING				LOGGED BY		CHECKED BY		APPROVED BY	
				Grainder/Mass		Dogbey/Mass		Meyer	
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	ROD RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
								REMARKS	
							90		
			90.5				91		
							92		
HQ	13	5.0	4.8	2.3	96	46	93		
							94		
							95		
			95.5				96		
							97		
HQ	14	5.0	4.5	2.2	90	44	98		
							99		
							100		
			100.5				101		
							102		
HQ	15	5.0	4.5	0.7	90	14	103		
							104		
							105		



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'		581.8 ft (NAVD 88)		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>TS for</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						
							105				90°, J, Ca, Pa, PI, SR @ 103.3-103.5', 103.6-104.1', 104.4-104.9'	
			105.5						476		highly fractured w/clay @ 104.3-104.4'	Core box #6 starts @ 105.5'.
							106		475		DOLOMITE; gray; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very widely spaced stylolites; (Bass Islands Group).	
							107		474		30°, J, Ca, Fi, PI, SR @ 106.3-106.4'	
									473		0°, B, Ca, Fi, PI, SR @ 106.8', 107.0'	
HQ	16	5.0	5.0	2.2	100	44	108		472		highly fractured @ 107.3-107.4'	
									471		0°, B, Ca, Fi, PI, SR @ 108.0', 108.1', 108.7'	
							109		470		90°, J, No, No, PI, SR @ 108.8-109.0'	
									469		10°, B/J, Ca/UK, Fi, PI, SR @ 109.0'	
							110		468		0°, B, Ca/CI, Fi, PI, SR @ 109.4', 109.7'	
									467		90°, J, Ca, Pa, PI, SR @ 109.4-110.1', 110.0-110.4'	
							111		466		80°, J, Ca, Pa, PI, SR @ 109.7-109.9'	
			110.5						465		50°, J, Ca, Fi, PI, SR @ 110.0-110.2'	
							112		464		DOLOMITE; light gray; very fine to fine grained (crystalline); fresh; very strong; very hard; (Bass Islands Group).	
									463		20°, J, Ca, Fi, PI, SR @ 111.1-111.2'	
HQ	17	5.0	5.0	2.7	100	54	113		462		highly fractured w/clay @ 111.3-111.4'	
									461		0°, J, No, No, Ir, SR @ 111.8'	
							114		460		70°, J, No, No, PI, SR @ 111.8-112.2'	
									459		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		458		DOLOMITE; light gray; micritic; fresh; very strong; hard; (Bass Islands Group).	
									457		70°, J, No, No, PI, SR @ 113.9-114.2'	
							116		456		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).	Core box #7 starts @ 115.2'.
									455		highly fractured w/clay @ 114.8-114.9'	
							117		454		90°, J, No, No, WA, SR @ 114.9-115.2'	
									453		DOLOMITE; light brownish gray; pitted; micritic; slightly weathered; strong; hard; (Bass Islands Group).	
HQ	18	5.0	5.0	4.0	100	80	118		452		30°, J, No, No, PI, S @ 117.5-117.8'	
									451		70°, J, Ca, Pa, PI, SR @ 118.2-118.7'	
							119		450		shale parting - 0°, B, PI, SR @ 118.3'	
									449		130°, J, Ca, Fi, PI, SR @ 118.7-118.8'	
							120		448		DOLOMITE; argillaceous; dark grayish brown; micritic; fresh; very strong; hard; (Bass Islands	



BLACK & VEATCH

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>for TB for</i> Grainger/Mass				CHECKED BY <i>for TB for</i> Dobbey/Mass				
								APPROVED BY <i>for</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												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	19	5.0	3.5	0.4	70	8	120				Group).	
			120.5				121		461		0°,B,Cl,Fi,PI,SR @ 121.1',121.2'	
							122		460		20°,J,anhydrite,Fi,PI,SR @ 121.6'	
											highly fractured @ 122.4-122.6'	
							123		459		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'	
							124		458			Core loss @ 124.1-125.5'.
							125		457			
			125.5				126		456			Core loss throughout 125.5-128.7'.
							127		455			
HQ	20	5.0	1.8	0.0	36	0	128		454			
							129		453		claystone; dark gray; highly weathered; weak; low hardness; properties comparable to high plasticity, low toughness, no dilatancy fines soil; moist @ 128.7-129.1'	
							130		452		highly fractured @ 129.1-129.5'	
											shale partings - 0°,B,Ca,Pa,PI,SR @ 129.5', 129.9', 130.0' (2), 130.2'	
							131		451		80°,J,Cl,Pa,PI,SR @ 130.3-130.4'	
							132		450			Bottom of boring @ 130.5'; Water level @ 16.7' @ completion of drilling.
							133		449			Backfilled w/ bentonite chips to 2' & backfilled w/gravel to surface on 09/12/07.
							134		448			
							135		447			

**BLACK & VEATCH****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' E 4915.0'										GROUND ELEVATION (DATUM) 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>Graininger/Mass</i>										CHECKED BY <i>Dogbey/Mass</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		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
S		1		5.0								3.0		0				581		COBBLES - 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).		Boring advanced w/vacuum excavation.																																							
S		2		10.0								3.5		5				576				Below 5.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																																							
														6				575																																											
														7				574																																											
														8				573																																											
														9				572				Discrete sample SC1 collected @ 8.9-9.2'.																																							
														10				571																																											
														11				570																																											
														12				569																																											
														13				568				Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy, high dry strength fines; gray & yellowish brown, mottled; soft; moist; swampy odor; no reaction w/HCl; homogeneous; (Lacustrine Deposit).																																							
														14				567																																											
														15								Discrete sample SC2 collected @ 14.0-14.2'.																																							

**BLACK & VEATCH****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' E 4915.0'										GROUND ELEVATION (DATUM) 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>GO for</i> Grainger/Mass										CHECKED BY <i>im 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																			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																																	
TW		3		15.5								1.5		15		566																																													
SPT		4		3		4		9		13		1.5		16		565																																													
TW		5										1.4		17		564																																													
														18		563																																													
														19		562																																													
														20		561																																													
														21		560																																													
														22		559																																													
														23		558																																													
														24		557																																													
SPT		6		50/5"		-		-		50+		0.4		25		556																																													
														26		555																																													
														27		554																																													
														28		553																																													
S		7				28.5						1.5		29		552																																													
														30																																															

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).

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).

DOLOMITE; massive; crystalline; gray; micritic; slightly weathered; very strong; hard; highly fractured; (Bass Islands Group).

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'.

PP = 3.3 TSF @ 21.7'.

Drill chatter @ 23.0'.

Tricone refusal @ 28.5'. Below 28.5' continued w/4" ID sonic continuous

**BLACK & VEATCH****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' 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>for TB for</i> Grainger/Mass										CHECKED BY <i>for TB for</i> Dogbey/Mass										APPROVED BY <i>for</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																		
HQ	1	5.0	4.5	0.0	90	0	30		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'.																		
HQ	2	5.0	5.0	3.6	100	72	35		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'										Core loss @ 30.0-30.5'.																		
							36		545		grades light brownish gray; w/shale partings @ 36.5' 0°,B,CI,Pa,PI,SR @ 36.6'										Drill chatter @ 35.5'.																		
							37		544		15°,J,CI,Pa,PI,SR @ 37.8'										Drill chatter @ 36.0'.																		
							38		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'										Drill chatter @ 37.5'.																		
							39		542																														
							40		541																														
							41		540																														
							42		539		grades light brownish gray & gray, banded @ 41.3'																												
							43		538		shale parting - 0°,B,PI,SR @ 42.0'																												
							44		537		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-																		
							45				DOLOMITE; grayish brown; pitted; micritic to very fine																												

**BLACK & VEATCH****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' E 4915.0'										GROUND ELEVATION (DATUM) 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 G. L. for TB for Grainder/Mass										CHECKED BY S. B. for TB for Dogbey/Mass										APPROVED BY E. 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		4		5.0		5.0		3.9		100		78		45		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,Pl,SR @ 44.4', 46.3'																				44.1'. Core box #2 starts @ 45.0'.			
HQ		5		5.0		5.0		1.3		100		26		50		531				DOLOMITE; argillaceous; grayish brown & gray, banded; very fine grained; fresh; very strong; hard; (Bass Islands Group). 0°,B,No,No,Pl,SR @ 49.7' highly fractured @ 50.5-50.7' 0°,J,No,No,Pl,SR @ 50.5',50.7' 70°,J,N,No,No,Pl,SR @ 50.9-51.2', 51.0-51.2'																				Drill chatter @ 49.5'.			
HQ		6		5.0		4.8		3.3		96		66		55		526				shale partings & stylolites @ 55.0-55.3'																							
HQ		6		5.0		4.8		3.3		96		66		56		525				DOLOMITE; argillaceous; olive gray; micritic; fresh; very strong; very hard; (Bass Islands Group). 10°,B,No,No,Pl,R @ 55.7-55.8' 30°,J,No,No,Ir,R @ 56.2' 85°,J,T,Pl @ 56.6-56.8' 75°,J,Ca,Fi,Pl,Slk @ 56.6-56.8' dolomite & dolomitic shale; light gray & light brownish gray, mottled; micritic; fresh; strong; hard; @ 56.8-56.9'																							
HQ		6		5.0		4.8		3.3		96		66		57		524				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' elongated vugs, 0.04-0.08" @ 59.1-59.5'																							
HQ		6		5.0		4.8		3.3		96		66		58		523				DOLOMITE; white & light gray, banded; micritic; fresh;																							
HQ		6		5.0		4.8		3.3		96		66		59		522																											
HQ		6		5.0		4.8		3.3		96		66		60		521																											

**BLACK & VEATCH****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' E 4915.0'										GROUND ELEVATION (DATUM) 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>Grainder/Mass</i>										CHECKED BY <i>Dogbey/Mass</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		PERCENT RECOVERY		RQD																															
HQ		7		5.0		5.0		2.9		100		58		60		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' 10°, J, No, No, PI, R @ 61.1' 20°, J, CI, FI, PI, R @ 61.7' 10°, J, CI, FI, PI, SR @ 62.2', 62.5'																				Core box #3 starts @ 60.0'.	
HQ		8		5.0		4.6		2.0		92		40		65		516						DOLOMITE; grayish brown, light brownish gray & gray, banded; laminated; micritic; fresh; strong; hard; (Bass Islands Group). 60°, J, CI, Pa, PI, R @ 63.9-64.3' (2) highly fractured w/clay @ 64.5-64.6' 0°, J, UK, Pa, St, R @ 65.6' 20°, J, Ca/CI, Pa, PI, SR @ 65.9', 66.0' 0°, J, No, No, PI, SR @ 66.1' 20°, J, CI, FI, PI, SR @ 66.3' gray; pitted; less banding @ 66.8-67.6' 90°, J, CI, Pa, PI, SR @ 67.5-68.0' 90°, J, T, PI @ 67.6-68.0' highly fractured @ 68.6-68.7'																				No drilling fluid return @ 64.0'. Core loss @ 65.0-65.4'.	
HQ		9		5.0		5.0		2.1		100		42		70		511						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). 40°, J, CI, Pa, PI, St, SR @ 68.9-69.0' 80°, J, No, No, PI, SR @ 70.2-70.5' highly fractured @ 72.2-72.3', 73.3-73.5' grades light olive gray & light yellowish brown, banded @ about 72.3' 65°, J, No, No, PI, SR @ 72.6-73.0' 90°, J, No, No, PI, R @ 73.0-73.3' fat clay - about 100% high plasticity, medium																					

BLACK & VEATCH

BORING LOG

BORING NO. FO-E1

SHEET 6 OF 10

CLIENT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

**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' E 4915.0'										GROUND ELEVATION (DATUM) 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>Grainder/Mass</i>										CHECKED BY <i>Dogbey/Mass</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																																																	
HQ		13		5.0		5.0		3.1		100		62		90				491				<p>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'</p> <p>mottled w/dolomitic shale @ 93.3-93.5' shale parting - 10°, B, PI, SR @ 93.7' grades brecciated; fractured argillaceous dolomite healed/recrystallized w/quartz (hardness > knife blade) @ 93.7'</p> <p>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'</p> <p>highly fractured @ 97.3-97.5' 50°, J, No, No, PI, SR @ 97.5-97.7'</p> <p>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'</p> <p>90°, J, No, No, PI, SR @ 99.8-100.0' (2) 0°, B, UK, FI, PI, SR @ 100.0', 101.1'</p> <p>0°, B, UK, FI, PI, SR @ 101.6', 101.7', 102.1'</p> <p>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'</p> <p>0°, B, UK, FI, PI, SR @ 103.7', 103.9', 104.4'</p> <p>40°, J, No, No, PI, SR @ 104.8-105.0'</p>																				Core box #5 starts @ 90.0'																					
HQ		14		5.0		4.6		1.6		92		32		95				486																																													
HQ		15		5.0		5.0		2.9		100		58		100				481																																													
														101				480																																													
														102				479																																													
														103				478																																													
														104				477																																													
														105																												Core box #6 starts @ 104.4'																					

**BLACK & VEATCH****BORING LOG**

BORING NO. FO-E1

SHEET 8 OF 10

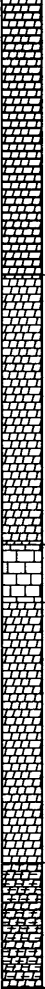
CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483														
PROJECT LOCATION Monroe, MI					COORDINATES N 6490.2' E 4915.0'					GROUND ELEVATION (DATUM) 581.2 ft (NAVD 88)					TOTAL DEPTH 130.3 (feet)									
SURFACE CONDITIONS Gravel street					COORDINATE SYSTEM Plant					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>				
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	16	5.0	4.9	3.7	98	74	105.0		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'													
							109		472		70°, J, No, No, WA, S @ 108.1-108.5'													
							110		471		DOLOMITE; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/very closely spaced stylolites; (Bass Islands Group). 0°, J, Cl, Pa, PI, SR @ 108.6'													
HQ	17	5.0	5.0	3.9	100	78	110.0		470															
							111		469															
							112		468															
							113		467		DOLOMITE; light brownish gray; micritic; slightly weathered; strong; hard; (Bass Islands Group). highly fractured @ 113.2-113.3' 0°, B, Ca, Cl, Fi, PI, SR @ 113.3' 0°, J, Ca, Pa, PI, SR @ 113.6', 113.9' 90°, J, T, Ca, Fi, PI @ 113.7-114.0' (3) 30°, J, Ca, Pa, PI, SR @ 113.9-114.0', 114.1-114.2'													
							114		466															
							115		465		DOLOMITE & argillaceous DOLOMITE; grayish brown & gray, mottled; pitted; micritic to very fine grained; fresh to slightly weathered; very strong; hard; (Bass Islands Group). highly fractured @ 115.4-115.6', 116.2-116.4'													
							116		464															
HQ	18	5.0	4.0	0.9	80	18	115.0		463		DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; (Bass Islands Group). 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' 30°, J, Cl, Pa, PI, SR @ 116.7-116.8' 90°, J, Cl, Pa, PI, SR @ 116.8-117.0' 0°, J, Cl, Fi, PI, SR @ 117.2', 117.4' 0°, J, Cl, Ca, Fi, PI, SR @ 117.3'													
							117		462															
							118		461															
							119		460															
							120		459		DOLOMITE & SHALE; dolomitic; light olive brown, dark													

BLACK & VEATCH

BORING LOG

BORING NO. FO-E1

SHEET 9 OF 10

CLIENT										PROJECT										PROJECT NO.																				
Detroit Edison										Fermi 3 COL Application										147483																				
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																									
Monroe, MI					N 6490.2'					E 4915.0'					581.2 ft (NAVD 88)					130.3 (feet)																				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																				
Gravel street										Plant					08/22/07					08/26/07																				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																				
										G. For Grainger/Mass					E. For Dogbey/Mass					S. Meyer																				
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY										
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																																		
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																	
120	HQ	19	5.0	3.0	0	60	0	120		461											gray & dark grayish brown, banded; laminated; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 70°, J, CI, Pa, PI, SR @ 118.2-118.7' 90°, J, CI, Pa, PI, 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'										Core box #7 starts @ 120.0'. Core loss throughout @ 120.0-130.0'.									
121								460																																
122								459																																
123								458	shale parting - 0°, B, PI, SR @ 122.7' 80°, J, No, No, PI, SR @ 122.7-122.9'																															
124								457	DOLOMITE; light gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 0°, B, No, No, PI, SR @ 123.4' claystone; light brownish gray; highly weathered; weak; low hardness; contains fragments of dolomite @ 123.7-123.8'												Water level @ 15.0' prior to drilling on 08/26/07.																			
125	HQ	20	2.5	1.0	0	40	0	456	mottled w/anhydrite @ 123.8-124.0'																															
126								455	LIMESTONE; argillaceous; greenish gray; micritic; slightly to moderately weathered; strong; hard; (Salina Group - Unit F).																															
127								454	DOLOMITE; light gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F) mottled w/anhydrite @ 126.3-126.7'																															
128	HQ	21	2.5	1.3	0.3	52	12	453																																
129								452	DOLOMITE; argillaceous; gray; micritic; fresh; very strong; very hard; (Salina Group - Unit F). 90°, J, CI, Pa, PI, SR @ 129.1-129.4'																															
130								451																																
131								450																																
132								449																																
133								448																																
134								447																																
135																																								

**BLACK & VEATCH****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' 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>80 for 786</i> Grainger/Mass										CHECKED BY <i>80 for 786</i> Dogbey/Mass										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																																									
														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																																															

**BLACK & VEATCH****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' E 4776.3'										GROUND ELEVATION (DATUM) 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>E. J. Grainger</i> /Bonnie TB										CHECKED BY <i>E. J. Dogbey</i> /Bonnie TB										APPROVED BY <i>E. J. Meyer</i>																																																																																			
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										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																			
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																																																																																																											
																				0																														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																																																																																													
																				2																																																																																													
																				3																																																																																													
																				4																																																																																													
																				5																																																																																													
																				6																																																																																													
																				7																																																																																													
																				8																																																																																													
																				9																																																																																													
																				10																																																																																													
																				10.0																																																																																													
																																																		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																																																																																													
																				12																																																																																													
																				13																																																																																													
																				14																																																																																													
																				15																																																																																													

**BLACK & VEATCH****BORING LOG**

BORING NO. FWS/ACB-C1

SHEET 2 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>Grainger/Bonnie TB</i>		CHECKED BY <i>Em ft Dogbey/Bonnie TB</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
CORING													
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'.
								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).	
								23		558			
								24		557			
								25		556			
								26		555			
								27		554			
								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'.
								30					

BLACK & VEATCH

BORING LOG

BORING NO. FWS/ACB-C1

SHEET 3 OF 8

CLIENT		PROJECT		PROJECT NO.		
Detroit Edison		Fermi 3 COL Application		147483		
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		
Monroe, MI		N 6203.1' E 4776.3'		581.4 ft (NAVD 88)		
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START		
Asphalt Parking Lot				08/25/07		
SAMPLING		LOGGED BY		APPROVED BY		
		Grainger/Bonnie TB		Meyer E-M		
CORING		CHECKED BY				
		Dogbey/Bonnie TB				
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (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	1	4.5	4.5	3.7	100	82
PQ	2	5.0	4.9	3.8	98	76
PQ	3	5.0	5.0	2.2	100	44

**BLACK & VEATCH****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' 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>BoB</i> Grainger/Bonnie TB										CHECKED BY <i>BoB</i> Doggby/Bonnie TB										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																																	
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'	Core box #3 starts @ 49.5'.																											
							46	535																															
							47	534																															
							48	533																															
							49	532																															
							50	531																															
							51	530																															
							52	529																															
							53	528																															
							54	527																															
PQ	5	5.0	5.0	3.0	100	60	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																															
							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	55		526		healed brecciated zone @ 56.2-56.4'																												
							56	525																															
							57	524		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'																													
							58	523																															
							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</i> TB										CHECKED BY <i>Dogbey/Bonnie</i> TB										APPROVED BY <i>Meyer</i> EM									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	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	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		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'										62.0																	
								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																													
								71		510	60°,J,MW,Ci,Fi,Ir,R @ 70.3'																												
								72		509	60°,J,N,No,No,Ir,R @ 70.8'										70.9																		
PQ	9	5.0	5.0	3.0	100	60		73		508	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'																												
								74		507	fractured @ 72.7',73.2'																												
								75			fractured @ 74.6'																												

**BLACK & VEATCH****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' E 4776.3'										GROUND ELEVATION (DATUM) 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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Granger/Bonnie</i> TB										CHECKED BY <i>Dogbey/Bonnie</i> TB										APPROVED BY <i>Meyer</i>																																																	
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																			
PQ 10 5.0 4.7 2.5 94 50										75																														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'										Core box #6 starts @ 76.4'.																													
										76																																																																					
										77																																																																					
										78																																																																					
										79																																																																					
										80																																																																					
PQ 11 5.0 5.0 3.7 100 74										80																																								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',										Core box #7 starts @ 86.1'.																			
										81																																																																					
										82																																																																					
										83																																																																					
										84																																																																					
										85																																																																					
PQ 12 5.0 5.0 3.7 100 74										85																																																																					
										86																																																																					
										87																																																																					
										88																																																																					
										89																																																																					
										90																																																																					

**BLACK & VEATCH****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' E 4776.3'										GROUND ELEVATION (DATUM) 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 Granger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																										
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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	
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																																														
PQ 13 5.0 5.0 4.1 100 82										90.0						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'																																								
										91																																														
										92																																														
										93						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'																																								
										94						0°, B, N, UK, Su, Ir, R @ 93.6'																																								
										95						0°, B, N, UK, Su, Ir, R @ 94.7'																																								
PQ 14 5.0 4.9 4.3 98 86										95.0						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'										Core box #8 starts @ 95.0'																														
										96						60°, J, N, No, No, Ir, R @ 96.6'																																								
										97						0°, B, N, UK, Su, Ir, R @ 97.5'																																								
										98																																														
										99						80°, J, T, Fi @ 98.5-99.7' 0°, B, N, UK, Su, Ir, R @ 98.6', 99.0'																																								
										100																																														
PQ 15 5.2 4.7 3.8 90 73										100.0						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'																																								
										101						60°, J, N, No, No, Ir, R @ 102.2', 102.3'																																								
										102																																														
										103						0°, B, N, No, No, Ir, R @ 103.7', 103.9'																																								
										104																																														
										105						90°, J, Ca, Fi, Ir, R @ 104.4-105.0'																																								

**BLACK & VEATCH****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' E 4776.3'										GROUND ELEVATION (DATUM) 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</i> TB										CHECKED BY <i>Em for</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																																																																																																																											
CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																										
										105																																																		Bottom of boring @ 105.2'. Water level @ 17.4' @ completion of drilling. Boring backfilled w/bentonite chips on 09/13/07.																																																																					
										106																				476																																																																																																			
																				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																																																																																																																							

**BLACK & VEATCH****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' E 4782.7'										GROUND ELEVATION (DATUM) 581.4 ft (NAVD 88)										TOTAL DEPTH 9.9 (feet)																																																												
SURFACE CONDITIONS Asphalt Parking Lot										COORDINATE SYSTEM Plant										DATE START 08/23/07										DATE FINISHED 08/24/07																																																												
SAMPLING										LOGGED BY <i>Geo for Grainger</i>										CHECKED BY <i>Doobey/Bonnie</i>										APPROVED BY <i>Meyer</i>																																																												
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="7">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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																																																																																				
							0																				581																				ASPHALT; 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).										Boring advanced w/vacuum excavation.																																	
S 1							3.0																				578																														Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.																																	
							5.0																				577																																																															
S 2																											576																														Encountered piece of PVC pipe between 5.0-7.0' (later determined to be from a sewer line).																																	
																											575																																																															
																											574																														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.																							
																											573																																																															
																											572																																																															
																											571																																																															
																											570																																																															
																											569																																																															
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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'		581.0 ft (NAVD 88)		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>Geo for TB for</i> Grainger/Mass		CHECKED BY <i>Geo for</i> Dogbey/Grainger		APPROVED BY <i>Geo</i> Meyer			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS			REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD					
CORING							DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	
							0		581	<p><u>ASPHALT</u></p> <p>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).</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 @ 4.0-4.2'.</p> <p>Discrete sample collected from S2 @ 7.0-7.3'.</p> <p>Fat <u>CLAY</u> (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).</p>	
							1		580		
							2		579		
			3.0				3		578		
S	1					1.5	4	X	577		
			5.0				5		576		
							6		575		
S	2					2.0	7	X	574		
							8		573		
							9		572		
			10.0				10		571		
							11		570		
S	3					3.5	12		569		
							13		568		
							14		567		
							15		566		

**BLACK & VEATCH****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)		DATE START 08/23/07		
SURFACE CONDITIONS Paved Parking Area				COORDINATE SYSTEM Plant		DATE FINISHED 08/25/07		DATE START 08/23/07				
SAMPLING				LOGGED BY <i>Geo. J. Grainger</i>		CHECKED BY <i>Em. Dogbey</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
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
							15		566			
							16		565			
TW	4		16.0			1.7	17		564		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'.
							18		563			
SPT	5	3	4	8	12	1.5	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			
							24		557		grades dark grayish brown; homogeneous @ 23.5'	PP = 4.5 TSF @ 23.5'. T = 0.65 TSF @ 23.5'.
							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).	
SPT	7	21	23	24	47	1.1	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			



BLACK & VEATCH

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' 581.0 ft (NAVD 88)										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>Geo for TB for</i> Grainger/Mass										CHECKED BY <i>Geo for</i> Dobbey/Grainger										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																																							
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																	
PQ	1	3.0	3.0	1.5	100	50		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'.																										
			30.5					31		550		10°, B, N, No, No, Ir @ 30.8', 31.6', 31.7' 85°, J, N, No, No, Ir @ 31.2'																											
								32		549		30°, J, N, No, No, Ir @ 32.2' 10°, B, N, No, No, Ir @ 32.5', 33.3'																											
								33		548																													
			33.5					34		547		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'																											
PQ	2	5.0	5.0	1.6	100	32		35		546																													
								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																													
			38.5					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'.																										
PQ	3	4.7	4.7	0.9	100	19		41		540		0°, B, N, No, No, Ir @ 40.5'																											
								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'																											
			43.2					44		537		85°, parallel joints, T, H, Pa @ 43.5-44.5'																											
PQ	4	2.3	2.3	1.1	100	48		45		536		10°, B, T, UK, Sp, Ir @ 44.5', 45.1', 45.2' fractured @ 44.5-45.2'																											



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' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)		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>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								
PQ	5	5.0	4.7	1.1	94	22	45		536														
			45.5				46		535		70°, Intersecting joints, T, No, No, Ir @ 46.5', 48.0'												
							47		534		0°, B, UK, Sp, Ir @ 47.2', 47.7'												
PQ	5	5.0	4.7	1.1	94	22	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' 85°, J, T, No, No, Ir @ 49.4-52.0'												
			50.5				51		530														
							52		529														
PQ	6	5.0	5.0	3.0	100	60	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														
			55.5				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'												

**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' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										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 Grainger/Mass										CHECKED BY Dogbey/Grainger										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																															
														60				521				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'																					
				60.5										61				520				30°,J,N,No,No,Ir @ 61.8, 62.3'																					
														62				519				0°,B (solutioned) @ 62.2, 63.7'																					
PQ		8		5.0		5.0		2.5		100		50		63				518				70°,J,N,No,No,Ir @ 62.7'																					
														64				517				70°,J,N,No,No,Ir @ 64.0-64.3'																					
														65				516				60°,J,N (solutioned),Cl,Pa,Ir @ 65.5'																					
				65.5										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'																					
														71				510				0°,B,N (solutioned) @ 70.0', 70.5'																					
				70.5										72				509				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'																					
														73				508																									
PQ		10		5.0		5.0		4.4		100		88		74				507				fractured, solutioned @ 73.5-73.8'																					
														75				506				90°,J,T,No,No,Ir @ 73.5-74.0'																					
																						0°,B,N (solutioned) @ 73.8', 74.2'																					

Core box #5
starts @ 65.0'Core box #6
starts @ 73.5'

**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' E 4530.2'										GROUND ELEVATION (DATUM) 581.0 ft (NAVD 88)										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> Dodgeby/Grainger										APPROVED BY <i>EM</i> Meyer																																																																															
<table border="1"> <tr> <td>SAMPLE TYPE</td> <td>SAMPLE NUMBER</td> <td>SET 6 INCHES</td> <td>2ND 6 INCHES</td> <td>3RD 6 INCHES</td> <td>N VALUE</td> <td>SAMPLE RECOVERY</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <td>CORING</td> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										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									
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																																																																																																						
										75																				506																				pitted @ 75.0-75.1'																																																											
										76																				505																																																																															
										77																				504																																																																															
										78																				503																																																																															
										79																				502																																																																															
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										89																				492																																																																															
										90																				491																																																																															

Bottom of boring @ 75.5'. Water level at 20.2' @ completion of drilling. Boring backfilled with bentonite chips on 09/13/07.

BLACK & VEATCH

BORING LOG

BORING NO. PS-E1

SHEET 1 OF 3

CLIENT										PROJECT										PROJECT NO.																																																	
Detroit Edison										Fermi 3 COL Application										147483																																																	
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																							
Monroe, MI										N 6164.9'										E 4247.2'										579.9 ft (NAVD 88)										28.8 (feet)																													
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START										DATE FINISHED																																							
Hummock spoil area										Plant										08/28/07										08/29/07																																							
SAMPLING										LOGGED BY										CHECKED BY										APPROVED BY																																							
										Grainger										Dogbey/Grainger										Meyer																																							
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										PERCENT RECOVERY										RQD									
DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																			
0																																								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																				579																																																	
2																				578																																																	
3																				577																																																	
4										SPT										576										GRAVEL & COBBLES; medium dense; (Fill).										Gravel lodged @ tip of spoon.																													
5										1										575																																																	
6										1										574																																																	
7										4										573																																																	
8										8										572																																																	
9										12										571										PEAT (PT) - About 100% plant tissue, fibrous; very soft; (Lacustrine Deposit).																																							
10										0.8										570										1" thick very dark gray fat clay; high plasticity, high toughness, no dilatancy @ 9.5'																																							
11										2										569										Lean CLAY (CL) - About 94% LL=46, PL=16, no dilatancy, high dry strength fines; about 6% sand; greenish gray; moist; no reaction w/HCl; homogeneous; (Lacustrine Deposit).																																							
12										1/18"										568																																																	
13										0										567																																																	
14										0										566																																																	
15										0										565																																																	
16										1.2																																																											
17										1.5																																																											
18										0.0																																																											
19										0.0																																																											
20										0.0																																																											
21										0.0																																																											
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46										0.0																																																											
47										0.0																																																											
48										0.0																																																											
49										0.0																																																											
50										0.0																																																											

BLACK & VEATCH

BORING LOG

BORING NO. PS-E1

SHEET 2 OF 3

CLIENT						PROJECT							PROJECT NO.		
Detroit Edison						Fermi 3 COL Application							147483		
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6164.9'				E 4247.2'				579.9 ft (NAVD 88)			
SURFACE CONDITIONS								COORDINATE SYSTEM				DATE START		DATE FINISHED	
Hummock spoil area								Plant				08/28/07		08/29/07	
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Geo Per Grainger				Geo Per Dogbey/Grainger				Meyer	
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									
SPT	5	WOH	2	3	5	1.5	15		564						
TW	6					0.5	16		563						
							17		562		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).				
							18		561						
							19		560						
							20		559		grades w/few gravel @ 21.0'				
							21		558						
							22		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; very dark gray; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).				
							23		556						
SPT	7	10	20	25	45	1.5	24		555						
							25		554						
							26		553						
							27		552		grades w/few cobbles @ 27.0'				
							28		551						
SPT	8	5	50/4"	-	50+	NR	29		550						
							30								

**BLACK & VEATCH****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' E 4247.2'										GROUND ELEVATION (DATUM) 579.9 ft (NAVD 88)										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>GEO for</i> Grainger										CHECKED BY <i>GEO for</i> Dogbey/Grainger										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																																									
														30																																															
														31				549																																											
														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				535																																											

drilling.
Backfilled w/
bentonite chips
on 08/29/07.

**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' E 4445.3'										GROUND ELEVATION (DATUM) 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>7B for</i> Grainger/Mass										CHECKED BY <i>7B for</i> Dogbey/Mass										APPROVED BY <i>7B for</i> Meyer																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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																																																																																							
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																							
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14		565																																																																																											
15																																																																																													

**BLACK & VEATCH****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' E 4445.3'										GROUND ELEVATION (DATUM) 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>for</i> Grainger/Mass										CHECKED BY <i>for</i> Dogbey/Mass										APPROVED BY <i>for</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																															
SPT		2		2		2		3		5		1.3		15				564																									
														16				563																									
														17				562																									
														18				561																									
														19				560																									
														20				559																									
P		3										0.0		21				558																									
														22				557																									
TW		4										1.5		23				556																									
														24				555																									
														25				554																									
														26				553																									
SPT		5		10		13		18		31		1.3		27				552																									
														28				551																									
														29				550																									
														30																													

7/21/2008 5:28 PM DTE - Fermi 3 Geotech



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' E 4445.3'										GROUND ELEVATION (DATUM) 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 Grainger/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		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																									
														32				547																									
														33				546																									
														34				545																									
						34.0								35				544																									
HQ		1		5.0		5.0		2.1		100		42		36				543																									
														37				542																									
														38				541																									
														39				540																									
														40				539																									
														41				538																									
HQ		2		5.0		4.9		2.9		98		58		42				537																									
														43				536																									
														44				535																									
						44.0								45																													



BLACK & VEATCH

BORING LOG

BORING NO. RB-C1

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 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>Rob Grainger/Mass</i>										CHECKED BY <i>Tom Dogbey/Mass</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	
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		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'.	
HQ		4		5.0		5.0		1.9		100		38		46				533				40°, J, No, No, PI, SR @ 47.2-47.4' grades w/dolomite partings; argillaceous; dark gray, banded @ 47.4' 90°, J, Ca, Pa, PI, SR @ 47.5-48.1' 60°, J, No, No, PI, SR @ 47.6-47.9' very closely spaced stylolites @ 48.4', 48.6-48.9' 70°, J, Cl, Pa, PI, SR @ 48.8-49.2'																					
HQ		5		5.0		4.2		1.7		84		34		47				532				90°, J, VN, Ca, Pa, PI, SR @ 49.7-50.5' 90°, J, UK, Pa, PI, SR @ 50.2-50.5' (2) claystone parting; black; fresh; moderately strong; medium hard; 0.03' thick @ 50.5'																					
HQ		5		5.0		4.2		1.7		84		34		48				531				DOLOMITE; dark gray; vuggy; micritic; fresh to slightly weathered; strong; very hard; some vugs filled w/calcium carbonate; (Bass Islands Group). 80°, J, Ca, Pa, PI, R @ 50.8-52.3' 90°, J, Ca, Pa, PI, SR @ 51.1-51.9' 50°, J, Ca, Pa, PI, SR @ 51.4-51.5' 0°, B, UK, Pa, PI, SR @ 52.5' 30°, J, No, No, PI, SR @ 52.7' fractured @ 53.0-53.6' 30°, J, N, PI @ 53.6'																				Drill chatter @ 54.5'.	
HQ		5		5.0		4.2		1.7		84		34		49				530				90°, J, No, No, WA, R @ 54.6-54.8' highly fractured @ 55.1-55.6' grades grayish brown; w/closely to moderately wide spaced stylolites; fewer vugs @ 55.6'																				Core loss @ 58.2-59.1'.	
HQ		5		5.0		4.2		1.7		84		34		50				529				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'																				No drilling fluid return @ 59.0'.	
HQ		5		5.0		4.2		1.7		84		34		51				528				highly fractured @ 59.7-60.9'																					
HQ		5		5.0		4.2		1.7		84		34		52				527																									
HQ		5		5.0		4.2		1.7		84		34		53				526																									
HQ		5		5.0		4.2		1.7		84		34		54				525																									
HQ		5		5.0		4.2		1.7		84		34		55				524																									
HQ		5		5.0		4.2		1.7		84		34		56				523																									
HQ		5		5.0		4.2		1.7		84		34		57				522																									
HQ		5		5.0		4.2		1.7		84		34		58				521																									
HQ		5		5.0		4.2		1.7		84		34		59				520																									
HQ		5		5.0		4.2		1.7		84		34		60				519																									



BLACK & VEATCH

BORING LOG

BORING NO. RB-C1

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4445.3'										GROUND ELEVATION (DATUM) 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>Go for</i> Grainger/Mass										CHECKED BY <i>5/3 for</i> Dogbey/Mass										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	
HQ		6		5.0		5.0		3.5		100		70		60				519				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Bass Islands Group).																					
														61				518				dolomite & shale; dolomitic; white and gray, mottled; micritic to very fine grained; fresh; strong; moderately hard; 0.2' thick @ 61.9-62.1' 10°, J, Cl, Fi, Pl, SR @ 62.0'																					
														62				517																									
														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				0°, B, UK, Fi, Pl, SR @ 65.4'																				Core box #3 starts @ 64.0'	
														65				514																									
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, Pl, SR @ 65.7-65.8' claystone band; brecciated; gray; very fine grained; highly weathered; very weak; low hardness; 0.6" thick @ 65.9'																					
														68				511				0°, B, Cl, Fi, Pl, SR @ 66.3' shale parting; black; very fine grained; fresh; moderately strong; moderately hard @ 68.4'																					
						69.0								69				510																									
														70				509				40°, J, Ca, Pa, Pl, R @ 70.1-70.3' highly fractured @ 70.5-71.5'																					
														71				508																									
HQ		8		5.0		5.0		2.0		100		40		72				507				DOLOMITE; gray; micritic; fresh; strong; hard; w/ widely spaced stylolites; few shale partings; pitted zones; (Bass Islands Group). highly fractured @ 71.7-71.8', 72.0-72.1', 72.7-73.1' 60°, J, Ca, Pa, Pl, SR @ 72.4-72.7'																					
														73				506																									
														74				505				highly fractured @ 73.6-74.9'																				Drill chatter @ 73.5-74.0'.	
						74.0								75																													

**BLACK & VEATCH****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' E 4445.3'										GROUND ELEVATION (DATUM) 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>for TB for</i> Grainger/Mass										CHECKED BY <i>for TB for</i> Dogbey/Mass										APPROVED BY <i>for</i> Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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										9										5.0										5.0										3.7										100										74										75										504										grades light brownish gray; w/closely to moderately wide spaced stylolites @ 74.9' 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'										Core box #4 starts @ 79.0'.									
HQ										10										5.0										4.6										3.4										92										68										76										503																													
HQ										11										5.0										2.8										0.7										56										14										77										502																													
HQ										12										5.0										2.8										0.7										56										14										78										501																													
HQ										13										5.0										4.6										3.4										92										68										79										500										grades w/increased pitted zones; some very closely spaced stylolites @ 80.0' 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'										Core loss of 2.2' @ 84.4-87.3'.									
HQ										14										5.0										4.6										3.4										92										68										80										499																													
HQ										15										5.0										4.6										3.4										92										68										81										498																													
HQ										16										5.0										4.6										3.4										92										68										82										497																													
HQ										17										5.0										4.6										3.4										92										68										83										496										highly fractured @ 84.4-87.3' 90°, J, Cl, Pa, WA, SR @ 87.4-87.9' 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'										SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness: (Bass Islands									
HQ										18										5.0										4.6										3.4										92										68										84										495																													
HQ										19										5.0										4.6										3.4										92										68										85										494																													
HQ										20										5.0										4.6										3.4										92										68										86										493																													
HQ										21										5.0										4.6										3.4										92										68										87										492										SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness: (Bass Islands										SHALE; very dark gray; fissile; platy; very fine grained; moderately to highly weathered; very weak to moderately strong; low hardness: (Bass Islands									
HQ										22										5.0										4.6										3.4										92										68										88										491																													
HQ										23										5.0										4.6										3.4										92										68										89										490																													
HQ										24										5.0										4.6										3.4										92										68										90										490																													



BLACK & VEATCH

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' E 4445.3'										GROUND ELEVATION (DATUM) 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>Gofer</i> TB for Grainger/Mass										CHECKED BY <i>EM for</i> TB for Dogbey/Mass										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																											
HQ	12	3.8	2.0	0.0	53	0							90		489																								
													91		488																								
													92		487																								
HQ	13	1.2	0.8	0.0	67	0							93		486																								
													94		485																								
													95		484																								
HQ	14	5.0	4.8	2.4	96	48							96		483																								
													97		482																								
													98		481																								
													99		480																								
													100		479																								
HQ	15	5.0	4.8	0.7	96	14							101		478																								
													102		477																								
													103		476																								
													104		475																								
													105																										



BLACK & VEATCH

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' E 4445.3'										GROUND ELEVATION (DATUM) 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>Go for</i> Grainger/Mass										CHECKED BY <i>Go for</i> Dogbey/Mass										APPROVED BY <i>Em</i> Meyer																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																						
CORING										DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS																	
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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										
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										470																																																									
HQ 17 5.0 5.0 2.8 100 56										110										469										highly fractured @ 109.9-110.1'																																															
										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										464										70°, J, Cl, Pa, Pl, S @ 113.9-114.1'																																															
HQ 18 5.0 5.0 3.7 100 74										115										463										DOLOMITE; argillaceous; dark gray; very fine to fine grained; fresh; strong; moderately hard; (Bass Islands Group).																																															
										116										462										0°, B, Cl, Pa, Pl, SR @ 115.4-115.8'																																															
										117										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).																																															
										118										460										80°, J, Cl, Pa, Pl, SR @ 117.7-117.8' 0°, B, No, No, Pl, SR @ 118.1'																																															
										119										459										20°, J, Ca, Pa, Pl, SR @ 118.3-118.4'																																															
										119.0										458										50°, J, Cl, Pa, Pl, SR @ 119.0-119.1'										HQ-18: core fell out of core barrel into hole; ultimately recovered core.																																					
										120										457										DOLOMITE & DOLOMITE; argillaceous; greenish																																															

7/21/2008 5:28 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****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' E 4445.3'										GROUND ELEVATION (DATUM) 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>Geo. R. Grainger</i> / <i>TB Kr</i> Mass										CHECKED BY <i>Geo. R. Dogbey</i> / <i>TB Kr</i> Mass										APPROVED BY <i>Geo. R. 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																																	
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' joints filled w/large (0.4-0.8") anhydrite crystals @ 121.3-121.4' 30° J, anhydrite, Fi, Pl, SR @ 121.3-121.4' 140° J, anhydrite, Fi, Pl, SR @ 121.3-121.4'																							
														121				458																											
														122				457																											
														123				456																											
						124.0								124				455				Core loss @ 124.0-125.4'. highly fractured @ 125.4-126.1'																							
														125				454																											
														126				453																											
														127				452																											
														128				451				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' 90° J, Cl, Pa, Pl, SR @ 127.4-127.6' claystone band; dolomitic; brecciated; very dark gray; highly weathered; very weak; low hardness; w/angular fragments of dolomite @ 127.8-128.0' 70° J, Ca, Fi, Pl, SR @ 128.5-128.6' 90° J, No, No, Pl, SR @ 128.6-129.0'																							
														129				450																											
														130				449																											
														131				448																											
														132				447				mottled w/anhydrite beds @ 130.8-131.0' highly fractured @ 131.3-131.6' 70° J, anhydrite, Pa, Pl, SR @ 132.1-132.3' mottled w/anhydrite beds, anhydrite crystals fill part of 70° joint @ 132.2-132.5' dolomite band; light gray; vuggy; micritic; slightly weathered; strong; very hard @ 132.5-132.6' limestone; black; vuggy; very fine grained; slightly weathered; strong; hard @ 132.7-133.1'																							
														133				446																											
														134				445																											
														135				445																											
						134.0																SHALE; dolomitic; gray; platy; very fine grained; fresh; strong; hard; (Salina Group - Unit F). Core loss throughout @ 134.2-138.2'.																							

**BLACK & VEATCH****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' E 4445.3'										GROUND ELEVATION (DATUM) 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>E. for TR kr</i> Grainger/Mass										CHECKED BY <i>E. for TR kr</i> Dogbey/Mass										APPROVED BY <i>EM</i> Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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										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).																			
HQ										23										2.5										2.4										0.5										96										20										136										443																																							
HQ										24										2.5										1.5										0.4										60										16										137										442																																							
HQ										25										2.5										2.0										0.4										80										16										138										441																																							
HQ										26										2.5										2.0										0.0										80										0										139										440																				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' slightly weathered; strong; moderately hard @ 140.5-141.4' 40°,J,Cl,Fi,PI,SR @ 140.7-140.8',140.9-141.1' 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' DOLOMITE ; argillaceous; dark gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). 90°,J,No,No,PI,SR @ 145.1-145.6' CLAYSTONE ; dolomitic; gray; micritic; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F). strong hydrocarbon odor @ 147.0-148.0' DOLOMITE ; argillaceous; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). CLAYSTONE ; dolomitic; gray; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F).										PP = 2.3 TSF TV = 1.7 TSF @ 139.8'. Core loss @ 141.4-141.5'. Discrete sample 7-A collected @ 142.5-142.9'. Core loss @ 144.0-144.5'. Discrete sample 7-B collected @ 147.0-149.0' for chemical analysis. Core box #8 starts @ 149.0'. Water level @									
HQ										23										2.5										2.4										0.5										96										20										140										439																																							
HQ										24										2.5										1.5										0.4										60										16										141										438																																							
HQ										25										2.5										2.0										0.4										80										16										142										437																																							
HQ										26										2.5										2.0										0.0										80										0										143										436																				DOLOMITE ; argillaceous; dark gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). 90°,J,No,No,PI,SR @ 145.1-145.6' CLAYSTONE ; dolomitic; gray; micritic; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F). strong hydrocarbon odor @ 147.0-148.0' DOLOMITE ; argillaceous; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F). CLAYSTONE ; dolomitic; gray; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F).										PP = 2.3 TSF TV = 1.7 TSF @ 139.8'. Core loss @ 141.4-141.5'. Discrete sample 7-A collected @ 142.5-142.9'. Core loss @ 144.0-144.5'. Discrete sample 7-B collected @ 147.0-149.0' for chemical analysis. Core box #8 starts @ 149.0'. Water level @									
HQ										23										2.5										2.4										0.5										96										20										144										435																																							
HQ										24										2.5										1.5										0.4										60										16										145										434																																							
HQ										25										2.5										2.0										0.4										80										16										146										433																																							
HQ										26										2.5										2.0										0.0										80										0										147										432																				CLAYSTONE ; dolomitic; gray; moderately weathered; weak; low hardness; slight hydrocarbon odor; w/highly fractured, argillaceous dolomite partings; (Salina Group - Unit F).										PP = 2.3 TSF TV = 1.7 TSF @ 139.8'. Core loss @ 141.4-141.5'. Discrete sample 7-A collected @ 142.5-142.9'. Core loss @ 144.0-144.5'. Discrete sample 7-B collected @ 147.0-149.0' for chemical analysis. Core box #8 starts @ 149.0'. Water level @									
HQ										23										2.5										2.4										0.5										96										20										148										431																																							
HQ										24										2.5										1.5										0.4										60										16										149										430																																							
HQ										25										2.5										2.0										0.4										80										16										150										429																																							

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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' E 4445.3'										GROUND ELEVATION (DATUM) 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>TS for</i> Grainger/Mass										CHECKED BY <i>TS for</i> Dogbey/Mass										APPROVED BY <i>TS for</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																																	
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		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																														
			159.0				159		420			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.																	
HQ	30	2.5	2.5	0.4	100	16	160		419																														
							161		418																														
			161.5				162		417			grades very dark gray @ 161.5'																											
HQ	31	2.5	2.0	1.2	80	48	163		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																																



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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' 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>TS for</i> Grainger/Mass										CHECKED BY <i>TS for</i> Dogbey/Mass										APPROVED BY <i>TS for</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																		
HQ	32	2.5	2.3	0.0	92	0	165		414		dolomite band; argillaceous; gray; very fine grained (crystalline); fresh; strong; hard @ 166.3-166.5' 40° J, Cl, Pa, Pl, SR @ 166.3-166.4', 166.4-166.5' 90° J, Cl, 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'.																		
HQ	33	1.2	1.2	0.0	100	0	166		413																														
HQ	34	1.3	0.1	0.0	8	0	167		412																														
			166.5				167		412		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'.																		
HQ	35	2.5	1.8	0.0	72	0	168		411																														
			167.7				169		410																														
			169.0				170		409		shale parting; black; platy; very fine grained; fresh; moderately strong; moderately hard @ 175.2'										Drill chatter @ about 173.5'.																		
HQ	36	2.5	1.8	0.0	72	0	171		408																														
			171.5				172		407																														
			174.0				173		406		DOLOMITE; argillaceous; gray; very fine to fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F). 125° J, Cl, Fi, Pl, SR @ 176.0-176.5' 110° J, Cl, Pa, Pl, SR @ 176.4-176.5' 60° J, Cl, Pa, Pl, SR @ 176.4-176.5'										Water level @ 18.2' prior to drilling on																		
HQ	37	2.5	2.2	0.0	88	0	174		405																														
			176.0				175		404																														
			176.5				176		403		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). slight hydrocarbon odor @ about 176.9'																												
HQ	38	2.5	1.4	0.0	56	0	177		402																														
			179.0				178		401																														
							179		400		dolomite bands; argillaceous; gray; micritic to very																												
							180																																



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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' E 4445.3'										GROUND ELEVATION (DATUM) 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>									
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	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		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																														
HQ	42	2.5	1.7	0.4	68	16	186		393		light gray; highly weathered; very weak; low hardness @ 186.8-187.2' highly fractured zone; consists of angular fragments of dolomite (as described @ 184.3') and calcite; white; micritic; fresh; strong; hard @ 187.2-188.1'																												
			188.5				187		392																														
HQ	43	2.5	0.7	0.0	28	0	188		391			Core loss @ 188.5-190.3'.																											
			191.0				189		390																														
HQ	44	2.5	0.0	0.0	0	0	190		389		dark gray; highly weathered; weak; low hardness @ 190.3-190.8'																												
			193.5				191		388		very dark greenish gray; slightly weathered @ 190.8-191.0'																												
							192		387																														
HQ	45	2.5	0.5	0.0	20	0	193		386																														
							194		385		BRECCIA - dolomite clasts in a poorly indurated	Water level @ 17.4' prior to drilling on 07/18/07.																											
							195		384																														

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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					
SAMPLING				LOGGED BY <i>Robert Grainger/Mass</i>				CHECKED BY <i>Tom Dogbey/Mass</i>				APPROVED BY <i>Tom 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	
CORING													
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).		
			196.0				196		383				
HQ	46	2.5	1.3	0.0	52	0	197		382		grades dark gray @ about 197.2'		
							198		381		90°, J, Ca, Fi, PI, SR @ 198.3-198.5'		
			198.5				199		380		<u>DOLOMITE</u> ; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
HQ	47	2.5	1.7	0.0	68	0	200		379		grades pale yellow @ 199.7'		
							201		378		20°, J, Cl, Fi, PI, SR @ 200.3'		
			201.0				202		377		<u>LIMESTONE</u> ; 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).		
HQ	48	2.5	0.7	0.0	28	0	203		376		highly fractured (consists of angular fragments of vuggy limestone and argillaceous dolomite) @ 201.0-203.5'		
			203.5				204		375				
HQ	49	2.5	0.9	0.0	36	0	205		374		<u>BRECCIA</u> - 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).		
			206.0				206		373				
HQ	50	2.5	1.3	0.0	52	0	207		372		gray; highly weathered; weak to very weak; low hardness; fewer fragments of dolomite @ 207.2-208.0'		
							208		371				
			208.5				209		370		w/limestone bands; dark gray; pitted; micritic; slightly weathered; strong; hard; some pits filled w/dolomite @ 208.0-208.5'		
HQ	51	2.5	0.0	0.0	0	0	210		370				

7/21/2008 5:28 PM DTE - Fermi 3 Geotech

Water level @ 17.3' prior to drilling on 07/19/07. Hole @ 206.0'. Core loss @ 206.0-207.2'.



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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 579.2 ft (NAVD 88) 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>Grainger/Mass</i>										CHECKED BY <i>For Dogbey/Mass</i>										APPROVED BY <i>San 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		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		52		2.5		2.3		0.0		92		0		210				369																									
						211.0								211				368				highly fractured @ 211.2-211.6'																				Core loss @ 211.0-211.2'	
														212				367				claystone band; gray; highly weathered; weak; low hardness @ 211.5-211.6'																					
														213				366				LIMESTONE; olive gray & very dark gray; vuggy; micritic; slightly to moderately weathered; strong; very hard; (Salina Group - Unit F).																					
						213.5								214				365				DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/fossils (ostracodes); (Salina Group - Unit F).																				Core loss @ 213.5-213.9'	
														215				364				90° J, CI, Pa, PI, SR @ 213.0-213.4'																					
														216				363				claystone parting; white; highly weathered; very weak; low hardness to friable @ 213.0'																					
														217				362				40° J, CI, Pa, PI, SR @ 213.4-213.6', 213.6-213.7'																					
														218				361				170° J, CI, Pa, PI, SR @ 213.5'																					
														219				360				30° J, CI, Pa, PI, SR @ 213.5'																					
														220				359				claystone lens w/fragments of dolomite @ 214.3-214.5', 214.7-214.9'																				Core loss @ 216.0-217.1'	
														221				358				70° J, CI, Pa, PI, S @ 214.5-214.7'																					
														222				357				120° J, CI, Pa, PI, S @ 214.5-214.6'																					
														223				356				highly fractured @ 215.2-215.4'																					
														224				355				50° J, No, No, PI, R @ 215.6-215.8'																					
														225								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).																					
														226								shale band; dark greenish gray; fissile; very fine grained; fresh; moderately strong; hard; strong hydrocarbon odor @ 218.1-218.3'																				Core box #11 starts @ 219.6'	
														227								85° J, No, No, PI, R @ 218.6-218.9'																					
														228								DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).																					
														229								50° J, CI, Pa, PI, SR @ 220.0-220.1'																					
														230								LIMESTONE; dark greenish gray; pitted/vuggy; micritic; slightly to moderately weathered; strong; hard; pits/vugs 0.02-0.6"; (Salina Group - Unit F).																				Core loss @ 221.0-223.0'	
														231																													
														232																													
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														234																													
														235																													
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**BLACK & VEATCH****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 TC</i> Grainger/Mass										CHECKED BY <i>EM TC</i> Dogbey/Mass										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																			
														225				354				90°, J, Cl/Ca, Pa, Pl, SR @ 223.9-224.4' 135°, J, Ca, Pa, Pl, 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, Pl, SR @ 224.7' 20°, J, Ca, Pa, Pl, SR @ 225.5' 80°, J, Ca, Fi, Pl, 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, Pl, SR @ 226.3-226.4' 80°, J, Ca, Pa, Pl, 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, Pl, 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; 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, Pl, 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'																																							
HQ		61		1.0		233.0 1.0		0.0		100		0		231				348				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, Pl, 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		62		4.0		236.0 1.0		0.0		25		0		232				347				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, Pl, 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		63		1.0		237.0 1.0		0.0		100		0		233				346				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, Pl, 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		64		1.0		238.0 1.0		0.0		100		0		234				345				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, Pl, 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		65		1.0		239.0 1.0		0.0		100		0		235				344				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, Pl, 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		66		1.0		240.0 1.0		0.0		100		0		236				343				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, Pl, S @ 234.3-234.4' 150°, J, No, No, Pl, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, Pl, S @ 235.4-235.6'																				PID = 1.2ppm																			
HQ		67		1.0		241.0 1.0		0.0		100		0		237				342				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, Pl, S @ 234.3-234.4' 150°, J, No, No, Pl, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, Pl, S @ 235.4-235.6'																				Core barrel jammed @ 237.0'. Core loss throughout @ 237.0-241.8'.																			
HQ		68		1.0		242.0 1.0		0.0		100		0		238				341				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, Pl, S @ 234.3-234.4' 150°, J, No, No, Pl, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, Pl, S @ 235.4-235.6'																				Core barrel jammed @ 237.0'. Core loss throughout @ 237.0-241.8'.																			
HQ		69		1.0		243.0 1.0		0.0		100		0		239				340				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, Pl, S @ 234.3-234.4' 150°, J, No, No, Pl, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, Pl, S @ 235.4-235.6'																				Core barrel jammed @ 237.0'. Core loss throughout @ 237.0-241.8'.																			
HQ		70		1.0		244.0 1.0		0.0		100		0		240				340				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, Pl, S @ 234.3-234.4' 150°, J, No, No, Pl, SR @ 234.3' 90°, J, T, Cl, Pa, WA, S @ 234.8-236.0' highly fractured @ 235.1-236.0' 90°, J, Cl, Pa, Pl, S @ 235.4-235.6'																				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 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 579.2 ft (NAVD 88)		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>Grainger/Mass</i>		CHECKED BY <i>Dogbey/Mass</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						
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'	
			246.0				246		333		argillaceous @ 243.8-244.0', 244.7-244.8' 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'	
							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'
HQ	64	5.0	4.0	3.0	80	60	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'	
			251.0				252		327		very closely spaced stylolites @ 250.5-250.6'	
							253		326		highly fractured @ 250.7-250.9'	
							254		325		90°, J, N, chert, Pa, WA, SR @ 251.0-251.2'	
							255				light gray @ 251.1-255.3'	
											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					20°, J, No, No, PI, S @ 254.7'	

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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				
SAMPLING				LOGGED BY <i>GA</i> Grainger/Mass		CHECKED BY <i>TD</i> Dogbey/Mass		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						
							255		324		claystone band; dolomitic; light gray; slightly to moderately weathered; moderately strong; moderately hard @ 255.3-255.5'	
			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'	Core box #13 starts @ 256.0'.
HQ	66	5.0	5.0	4.0	100	80	257		322			
							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).	
							260		319		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'	
HQ	67	5.0	5.0	4.6	100	92	262		317		0°,B,No,No,Pl,R @ 262.8'	
							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				265		314		grades gray @ 266.2'	
							266		313		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'	Core box #14 starts @ 266.0'. Water level @ 18.9' prior to drilling on 07/26/07. Hole @ 266.0'.
HQ	68	5.0	4.4	3.7	88	74	267		312		0°,B,Cl,Fi,Pl,S @ 266.7'	
							268		311		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'	
							269		310		DOLOMITE; grayish brown to dark gray brown;	
							270					

**BLACK & VEATCH****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' E 4445.3'										GROUND ELEVATION (DATUM) 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>WLF for TBK</i> Grainger/Mass										CHECKED BY <i>SP for TBK</i> Dogbey/Mass										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																			
														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																																												
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														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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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>										CHECKED BY <i>Dogbey/Bonnie</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																															
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		574																									
																6		573																									
																7		572																									
																8		571																									
																9		570																									
																10		569																									
																10.5																											
																11		568																									
																12		567																									
																13		566																									
																14		565																									
																15																											



BLACK & VEATCH

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' E 4525.7'					GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)					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>					CHECKED BY <i>Dogbey/Bonnie</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	
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'.	
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).											
														21		558						gravel layer @ 23.0' & 24.5'											
														22		557																	
														23		556																	
														24		555																	
														25		554																	
P		6										2.0		26		553						grades w/ cobbles											
														27		552																	
														28		551																	
														29		550																Tricone bit refusal @ 29.0' Below 29.0'	
														30																			

**BLACK & VEATCH****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'		579.3 ft (NAVD 88)		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>Boyle</i> Grainger/Bonnie ^{TB}		CHECKED BY <i>Boyle</i> Dogbey/Bonnie ^{TB}		APPROVED BY <i>Boyle</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						
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	34.0	0.0	0	0	31		548		DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; very hard; (Bass Islands Group).	
HQ	2	2.5	35.0	0.0	32	0	32		547			
HQ	3	2.5	37.5	0.55	80	22	33		546			
HQ	4	5.0	40.0	1.6	100	32	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.. Water level @ 13.2' prior to drilling on 07/16/07. Core box #1 starts @ 34.0'.
							35		544			
							36		543			
							37		542			
							38		541		DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/stylolites; (Bass Islands Group).	
							39		540		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'	
							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'	

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer fm													
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		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'																					
														47				532				DOLOMITE; gray & very dark gray (mottled); micritic; fresh; strong; hard; (Bass Islands Group).																					
														48				531				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'																				Core box #2 starts @ 50.0'.	
														49				530				DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/fossils; (Bass Islands Group). 0°, J, VN, No, No, PI, SR @ 48.1', 45.2'																					
														50				529				0°, J, VN, CI, Pa, PI, SR @ 49.0'																					
														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				DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, T, No, No, PI, SR @ 52.7'																					
														53				526				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'																					
														54				525																									
														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'																					
														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																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C2

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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																																		
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										8										5.0										5.0										2.8										100										56										60.0										60										519										DOLOMITE; mottled light gray & very dark gray; (Bass Islands Group).																			
HQ										9										2.3										2.2										0.4										95										17										65.0										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'																			
HQ										10										1.0										1.0										0.0										100										0										67.3										62										517										shale parting @ 62.05'																			
HQ										11										1.7										0.1										0.0										5										0										68.3										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' Claystone; soft @ 62.9-63.0' fragmented @ 63.0-63.2' shale parting (.1" thick) @ 63.3'																			
HQ										12										0.2										0.2										100										0										70.0										64										515										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' coarser grained @ 64.5-65.0'																													
HQ										13										4.8										4.8										4.6										100										96										70.2										65										514										DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J, VN, Ca, Pa, SR @ 65.4' 0°, J, VN, Cl, Pa, SR @ 65.2', 65.7', 65.9', 66.2', 66.4', 66.9' Claystone, soft @ 67.1-67.2' fragmented @ 67.3-67.5', 67.6-67.8' light brownish gray @ 67.4-67.5' shale partings @ 67.8-68.6' 90°, J, T, No, No, Ir, R @ 67.9-68.3'																			
HQ										14										5.0										5.0										5.0										100										100										71.0										66										513										brecciated, healed (coarse grained to fine) @ 70.5-70.7' grades light brownish gray @ 70.5' 30°, J, VN, Cl, Pa, WA, SR @ 70.5-70.6' 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'																			
HQ										15										5.5										5.5										5.5										100										100										72.0										67										512										some anhydrite filled vugs @ 74.5-75.0'																			
HQ										16										6.0										6.0										6.0										100										100										73.0										68										511																													
HQ										17										6.5										6.5										6.5										100										100										74.0										69										510																													
HQ										18										7.0										7.0										7.0										100										100										75.0										70										509																													
HQ										19										7.5										7.5										7.5										100										100										76.0										71										508																													
HQ										20										8.0										8.0										8.0										100										100										77.0										72										507																													
HQ										21										8.5										8.5										8.5										100										100										78.0										73										506																													
HQ										22										9.0										9.0										9.0										100										100										79.0										74										505																													
HQ										23										9.5										9.5										9.5										100										100										80.0										75										504																													



BLACK & VEATCH

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'		579.3 ft (NAVD 88)		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 Grainger/Bonnie ^{TB}				CHECKED BY Doggby/Bonnie ^{TB}				APPROVED BY 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 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' 0°, J, T, CI, Sp, PI, SR @ 80.4' 20°, J, T, CI, Sp, PI, SR @ 80.7', 80.9'	Core box #4 starts @ 80.0'.	
HQ	15	5.0	5.0	2.4	100	48	81		498		15°, J, N, CI, FI, WA, SR @ 81.5' 0°, J, T, No, No, PI, SR @ 81.9', 82.1', 83.0', 84.9'		
							82		497				
							83		496		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' 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'	Discrete sample 4A taken from HQ15 @ 82.7-82.9'.	
							84		495				
							85		494		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' dolomite; brecciated, healed; fine to medium grained @ 85.3-85.4', 89.3-89.4'		
							86		493				
							87		492		SHALE; very dark gray; fresh; moderately strong; moderately hard; (Bass Islands Group).		
HQ	16	5.0	5.0	2.5	100	50	88		491		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'		
							89		490				
							90						

**BLACK & VEATCH****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' E 4525.7'				GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)				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>Graininger/Bonnie</i> TB				CHECKED BY <i>Dogbey/Bonnie</i> TB				APPROVED BY <i>Meyer</i> TB	
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	17	5.0	5.0	4.1	100	82	90		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. Core box #5 starts @ 94.0'.			
HQ	18	5.0	5.0	1.5	100	30	95		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).				
HQ	19	5.0	5.0	4.2	100	84	100		479		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90°, J, T, No, No, PI, SR @ 97.05-97.2', 98.5-99.1'				
							101		478		siltstone band; highly weathered; light gray; very fine grained to micritic; highly weathered; @ 98.25-98.3' 10°, J, VN, CI, Sp, PI, SR @ 98.7', 99.40', 99.45' 0°, J, VN, CI, Sp, PI, SR @ 95.8', 95.9', 96.3', 96.6', 96.75', 97.0', 97.15', 97.3', 97.45', 97.75', 97.9', 98.1', 98.4', 98.65', 98.8', 98.9', 99.05', 99.65', 99.95'				
							102		477		0°, J, VN, CI, Sp, PI, SR @ 100.2'				
							103		476		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'				
							104		475		20°, J, T, No, No, PI, SR @ 102.3-102.35'				
							105		475		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'				



BLACK & VEATCH

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' E 4525.7'					GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)					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> ^{7B}					CHECKED BY <i>Dogbey/Bonnie</i> ^{7B}					APPROVED BY <i>Meyer</i> ⁸²				
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	20	5.0	5.0	2.9	100	58	105.0		474		dark gray shale & light gray anhydrite band @ 105.0-105.35' 90°, J,T,Cl,Sp,WA,SR @ 105.35-105.9' 0°, J,T,Cl,Sp,PI,SR @ 105.5', 106.2'	Core box #6 starts @ 107.3'.							
							106		473		40°, J,T,No,No,PI,SR @ 106.4-106.5'								
							107		472		siltstone band; light gray; very fine grained; highly weathered; very weak; friable; @ 107.1-107.2' 0°, J,T,UK,Pa,PI,SR @ 107.1', 107.2', 107.3', 107.4'								
							108		471		0°, J,T,No,No,PI,SR @ 108.0', 109.3'								
							109		470										
							110		469		10°, J,VN,Cl,Sp,PI,SR @ 109.6'								
HQ	21	5.0	5.0	4.75	100	95	110.0		468		grades w/2% vugs @ 111.4'								
							112		467		grades w/5% vugs @ 112.6'								
							113		466		grades w/2% vugs @ 113.0'								
							114		465		grades w/no vugs @ 113.6' shale parting @ 113.7' 0°, J,VN,No,No,WA,SR @ 114.1' 0°, J,VN,Cl,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'								
							116		463										
							117		462										
							118		461		DOLOMITE; light gray; micritic; highly weathered; weak; friable; (Bass Islands Group).	Discrete sample 6A taken from HQ22 @ 118.6-118.95'. Core box #7 starts @ 119.3'.							
							119		460		DOLOMITE; light gray; micritic; fresh; strong; hard; (Bass Islands Group).								
							120				CLAYSTONE; gray; highly weathered; weak; friable; (Salina Group - Unit F).								

**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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																																																																									
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CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																
HQ										23										5.0										4.8										1.1										96										22										120.0										120										459										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' 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' grades not interbedded @ 121.8' grades interbedded w/dolomite @ 122.5' highly weathered; weak; friable @ 122.6-122.7'																			
HQ										24										5.0										4.1										0.7										82										14										125.0										125										454										DOLOMITE; argillaceous; very dark grayish brown; micritic; fresh, strong; hard; w/anhydrite bedding; (Salina Group - Unit F). claystone band; highly fractured; very dark gray; moderately weathered (no discoloration); moderately strong; hard @ 124.4-124.6'																			
HQ										25										4.2										3.7										0.0										88										0										130.0										130										449										LIMESTONE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). highly weathered @ 130.1-130.9'																			
HQ										26										0.8										0.3										0.0										37										0										134.2										134										445										10° J,T,No,No,PI,SR @ 128.3' DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90° J,T,No,No,Ir,SR @ 128.7-129.3'																			
HQ										26										0.8										0.3										0.0										37										0										134.2										135										445										CLAYSTONE; gray; fresh; weak; moderately hard;																			

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Core box #8 starts @ 131.9'.

Water level @ 21.5' prior to drilling on

BLACK & VEATCH

BORING LOG

BORING NO. RB-C2

SHEET 10 OF 19

CLIENT							PROJECT						PROJECT NO.	
Detroit Edison							Fermi 3 COL Application						147483	
PROJECT LOCATION Monroe, MI				COORDINATES N 6273.2'			GROUND ELEVATION (DATUM) E 4525.7'			579.3 ft (NAVD 88)			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. Bonnier</i> Grainger/Bonnie			CHECKED BY <i>B. Bonnier</i> Dogbey/Bonnie			APPROVED BY <i>B. Bonnier</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								
HQ	27	5.0	4.5	1.6	90	32	135.0		444	(Salina Group - Unit F).	07/28/07.			
							136		443					
							137		442	DOLOMITES; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).				
							138		441					
							139		440	CLAYSTONE; calcareous; gray; fresh; strong; hard; (Salina Group - Unit F). 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	DOLOMITES; 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	DOLOMITES; 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' 30°, J,VN,UK,Pa,Ir,R @ 144.2-144.3' 0°, J,VN,UK,Pa,Pi,SR @ 144.15', 144.3'				
							143		435					
							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					
							148		430					
							149		430					
							150		430					
HQ	30	2.5	2.5	1.2	100	48	147.5		431		Sample 8A taken from HQ30 @ 148.1-149.15'			
							149		430					
							150		430					

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																																																	
HQ										31										5.0										3.5										1.7										70										34										150.0										150										429										<p>limestone band; gray; micritic; fresh; moderately strong; moderately hard; @ 152.65-152.8'</p> <p>dolomite band; gray; micritic; fresh; strong; hard; @ 153.6-153.8'</p> <p>grades highly weathered; comparable properties to medium plasticity, medium toughness, no dilatancy soil fines; soft consistency @ 155.0</p> <p>grades slightly weathered (no discoloration); low hardness; comparable properties no longer apply @ 157.5'</p> <p>DOLOMITE; gray; (Salina Group - Unit F).</p> <p>90°, J, T, No, No, Pl, SR @ 162.0-162.2' (2 perpendicular joints)</p> <p>CLAYSTONE; bluish gray; slightly weathered (no discoloration); moderately strong; moderately hard; w/ dolomite & limestone interbedding; (Salina Group - Unit F).</p> <p>dolomite band @ 162.8-162.9'</p> <p>dolomite band @ 163.5-163.6'</p> <p>90°, J, T, No, No, Pl, SR @ 163.5-163.6'</p> <p>90°, J, VN, UK, Pa, WA, SR @ 163.8-163.9'</p>										<p>Core box #9 starts @ 150.7'.</p> <p>Discrete sample 9A taken from HQ31 @ 154.4-154.9'. PP = 2.0 TSF @ 155-156'. Discrete sample 9B taken from HQ32 @ 155.5-156.0'.</p>									
HQ										32										5.0										2.0										0.9										40										18										155.0										151										428																													
HQ										33										2.5										1.8										1.0										72										40										160.0										152										427																													
HQ										34										2.5										2.2										0.9										80										36										162.5										153										426																													
HQ										35										2.5										2.2										0.9										80										36										162.5										154										425																													
HQ										36										2.5										2.2										0.9										80										36										162.5										155										424																													
HQ										37										2.5										2.2										0.9										80										36										162.5										156										423																													
HQ										38										2.5										2.2										0.9										80										36										162.5										157										422																													
HQ										39										2.5										2.2										0.9										80										36										162.5										158										421																													
HQ										40										2.5										2.2										0.9										80										36										162.5										159										420																													
HQ										41										2.5										2.2										0.9										80										36										162.5										160										419																													
HQ										42										2.5										2.2										0.9										80										36										162.5										161										418																													
HQ										43										2.5										2.2										0.9										80										36										162.5										162										417																													
HQ										44										2.5										2.2										0.9										80										36										162.5										163										416																													
HQ										45										2.5										2.2										0.9										80										36										162.5										164										415																													
HQ										46										2.5										2.2										0.9										80										36										162.5										165										415																													

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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' E 4525.7'				GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)				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 Per</i> Grainger/Bonnie ⁷³		CHECKED BY <i>Bo Per</i> Dogbey/Bonnie ⁷³		APPROVED BY <i>Bo Per</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	
HQ	35	5.0	2.2	0.0	44	0	165.0		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.	
							166		413				
							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'		
							168		411		60° J, T, No, No, PI, SR @ 167.5-167.8'		
							169		410		CLAYSTONE; bluish gray; slightly weathered; moderately strong; moderately hard; w/dolomite & limestone interbedding; (Salina Group - Unit F).		
							170		409				
HQ	36	2.5	0.6	0.0	24	0	170.0		408				
							171		407				
							172		406				
							173		405				
HQ	37	2.5	0.5	0.0	20	0	172.5		404		dolomite @ 173.1-173.4' fractured @ 173.1-173.4'		
							174		403		BRECCIA; poorly indurated; claystone; calcareous; bluish gray; fresh; weak; low hardness; w/clasts of dolomite; (Salina Group - Unit F).		
							175		402				
HQ	38	1.0	0.0	0.0	0	0	175.0		401			Core box #10 starts @ 175.0'.	
							176		400				
HQ	39	1.5	0.0	0.0	0	0	176.0					Runs 38 & 39 - possibly soft material washing out during drilling.	
							177						
							178				dolomite band @ 177.5-177.9' grades non-calcareous claystone @ 177.9'		
							179						
HQ	40	2.5	2.4	1.3	96	52	177.5					Sample 10A taken from HQ40 @ 179.05-179.3'.	
							180						

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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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																														
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																						
HQ 41 2.5 2.4 0.0 96 0										180.0										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										183										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'																																				
										185.0										185										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										393										CLAYSTONE; gray; slightly weathered; moderately strong; medium hard; w/carbonate bands; (Salina Group - Unit F).																																				
																				187										392										fractured @ 187.9-188.2'																																				
																				188										391										10°, J, VN, No, No, PI, SR @ 188.5', 188.6' 60°, J, VN, No, No, PI, SR @ 188.5-188.7'																																				
																				189										390																																														
HQ 44 5.0 4.5 2.7 90 54										190.0										190										389																																														
																				191										388										LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																				
																				192										387										DOLOMITE; light brownish gray; w/interbedded limestone; 10° bedding; (Salina Group - Unit F).																																				
																				193										386										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'										Core box #11 starts @ 192.7'.																										
																				194										385										DOLOMITE; light brownish gray w/interbedded limestone; 10° bedding; (Salina Group - Unit F).																																				
																				195										384																																														



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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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie ^{TB}										CHECKED BY Dogbey/Bonnie ^{TB}										APPROVED BY Meyer ^{EM}																																																																																																																																																																																														
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bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 20° J,VN,No,No,PI,SR @ 194.7' </td> <td rowspan="10"> </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>196</td> <td>383</td> <td> DOLOMITE; interbedded; (Salina Group - Unit F). 195.2-195.7' </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>197</td> <td>382</td> <td> LIMESTONE; bluish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 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' 30° J,VN,UK,Pa,PI,SR @ 197.6-197.75' dolomite band; grayish brown; moderately strong; moderately hard; @ 197.7-197.9' dolomite; light grayish brown; strong; hard; @ 197.95-198.2' 10° J,T,UK,Fi,PI,SR @ 198.2', 198.3', 198.4' dolomite; strong; hard; @ 198.4-198.8' 70° J,N,UK,Pa,PI,SR @ 198.4-198.7' dolomite; gray; micritic; fresh; strong; hard; @ 198.9-199.3' claystone band; 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BLACK & VEATCH

BORING LOG

BORING NO. RB-C2

SHEET 15 OF 19

CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Detroit Edison		Monroe, MI		N 6273.2'		E 4525.7'		579.3 ft (NAVD 88)				
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START		DATE FINISHED						
Gravel parking area		Plant		06/14/07		07/30/07						
SAMPLING		LOGGED BY		CHECKED BY		APPROVED BY						
		Grainger/Bonnie		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
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	48	5.0	5.0	1.9	100	38	210.0		210		highly weathered; weak; low hardness @ 209.7-209.8'	
									211		80°, J, T, No, No, PI, SR @ 210.05-210.3'	
									212		highly weathered; weak; low hardness @ 210.6-210.7'	
									213		shale parting @ 210.75'	
									214		highly weathered; extremely weak; low hardness @ 211.4-211.9'	
									215		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
									216		DOLOMITE; dark gray; micritic; weak; low hardness; (Salina Group - Unit F).	
									217		DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
									218		LIMESTONE; gray; micritic; fresh; strong to very strong; hard; (Salina Group - Unit F).	
									219		fragmented @ 213.8-214.0'	
									220		10°, J, T, No, No, PI, SR @ 214.0'	
									221		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F).	
									222		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'	
									223		10°, J, VN, Ca, Pa, PI, SR @ 214.6'	
									224		limestone band; dark grayish brown; micritic; fresh; strong; hard @ 216.4-216.5'	
									225		0°, J, T, No, No, PI, SR @ 216.6', 216.7', 216.9', 217.2', 218.2', 217.85', 217.95'	
									226		LIMESTONE; dark grayish brown; micritic; fresh; strong hard; (Salina Group - Unit F).	
									227		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/limestone layers; (Salina Group - Unit F).	
									228		0°, J, T, No, No, PI, SR @ 218.7'	
									229		grades dark gray @ 218.9'	
									230		LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; 5% vugs; (Salina Group - Unit F).	
									231		0°, J, T, No, No, PI, SR @ 220.3'	
									232		80°, J, T, No, No, PI, SR @ 220.4-220.6'	
									233		50°, J, T, No, No, PI, SR @ 220.5-220.65'	
									234		DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
									235		grades light grayish brown @ 221.3'	
									236		claystone band @ 221.5-221.7'	
									237		LIMESTONE; dark grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
									238		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	
									239		0°, J, T, No, No, PI, SR @ 224.0', 224.5', 224.8'	

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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 Grainger/Bonnie TP										CHECKED BY Dobbey/Bonnie TP										APPROVED BY Meyer EM																																															
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HQ 51 5.0 2.7 1.0 54 20										225.0										225										354										fossils @ 224.0-224.3'																																					
																				226										353										0°, J, T, No, No, PI, SR @ 225.35', 225.6', 225.65'																																					
																				227										352										10°, J, T, No, No, PI, SR @ 226.05'																																					
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HQ 52 5.0 2.0 0.0 40 0.0										230.0										231										348										grades very weak to extremely weak; w/properties comparable to medium plasticity, medium toughness, no dilatancy soil fines; soft to firm; moist																																					
																				232										347										grades slightly weathered; comparable soil properties no longer apply @ 231.0'																																					
																				233										346																																															
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HQ 53 2.5 3.5 1.1 100 44										235.0										236										343										DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																					
																				237										342										70°, J, VN, CI, Pa, PI, SR @ 236.5-236.7'																																					
																				238										341										0°, J, VN, No, No, PI, SR @ 236.7'																																					
																				239										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										240										340										dolomite band; dark gray; fragmented @ 238.2-238.4'																																					
																																								grades slightly to moderately weathered (no discoloration); weak; low to moderately hard @ 239.0'																																					
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**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										TOTAL DEPTH 270.0 (feet)																																														
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<table border="1"> <tr> <td>HQ</td> <td>55</td> <td>5.0</td> <td>4.5</td> <td>2.75</td> <td>90</td> <td>55</td> </tr> </table>										HQ	55	5.0	4.5	2.75	90	55	240.0																																																		Discreate jar sample 14A taken from HQ55 @ 240.0-240.1'.									
HQ	55	5.0	4.5	2.75	90	55																																																																						
<table border="1"> <tr> <td>HQ</td> <td>56</td> <td>5.0</td> <td>4.6</td> <td>3.4</td> <td>92</td> <td>68</td> </tr> </table>										HQ	56	5.0	4.6	3.4	92	68	245.0																																																		<p>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'</p> <p>DOLOMITE; gray; fresh; strong; hard; (Salina Group - Unit F). 15°, J, T, No, No, PI, SR @ 241.7'</p> <p>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'</p> <p>fossil pits @ 245.4-246.4'</p> <p>fragmented @ 246.6-246.8'</p> <p>fossil pits @ 247.0-248.8' 0°, J, T, No, No, PI, R @ 247.1', 247.2', 247.4', 248.6'</p> <p>claystone band; white; micritic; highly weathered; soft; very weak @ 248.9-249.0'</p> <p>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'</p> <p>248.9'-249.0': 5.7 PPM, PID reading in headspace of plastic bag stored in core box.</p> <p>Core box #15 starts @ 251.51'.</p>									
HQ	56	5.0	4.6	3.4	92	68																																																																						
<table border="1"> <tr> <td>HQ</td> <td>57</td> <td>5.0</td> <td>4.5</td> <td>3.65</td> <td>90</td> <td>73</td> </tr> </table>										HQ	57	5.0	4.5	3.65	90	73	250.0																																																											
HQ	57	5.0	4.5	3.65	90	73																																																																						
										255																																																																		

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6273.2' E 4525.7'		579.3 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking area		Plant		06/14/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Bonnie		Dogbey/Bonnie	
APPROVED BY					
Meyer					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
255.0	HQ	324		vuggy dolomite (5% vugs) @ 255.0-255.3'	
256.0	HQ	323		CLAYSTONE; gray; micritic; highly to slightly weathered; weak; low hardness; (Salina Group - Unit E).	
257.0	HQ	322		DOLOMITE; gray; micritic; highly weathered to fresh; weak to strong; low hardness to hard; (Salina Group - Unit E). shale parting @ 256.2'	
258.0	HQ	321		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E). fractured @ 256.4-257.0'	
259.0	HQ	320		0°, J, VN, shale, Fi, PI, SR @ 256.9'	
260.0	HQ	319		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit E). 30° J, VN, CI, Fi, WA, S @ 257.25-257.35'	
261.0	HQ	318		0°, J, VN, CI, Fi, PI, SR @ 257.4', 257.55', 258.1', 258.2'	
262.0	HQ	317		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'	
263.0	HQ	316		shale parting @ 259.9'	
264.0	HQ	315		gypsum nodules @ 258.9-259.1', 260.8-261.1', 262.85-263.1', 264.0'	
265.0	HQ	314		gypsum partings @ 259.1-259.8'	
266.0	HQ	313		gypsum parting (0.2") @ 260.05'	
267.0	HQ	312		gypsum parting (0.05") @ 260.15'	
268.0	HQ	311		gypsum parting (0.1") @ 260.2'	
269.0	HQ	310		gypsum parting (0.15") @ 260.4'	
270.0	HQ	309		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'	
				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'	
				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'	

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 579.3 ft (NAVD 88)										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>Doebey/Bonnie TB</i>										APPROVED BY <i>Meyer EM</i>																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																						
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	CORING																																																												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																							
										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																																																									
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										280										299																																																									
										281										298																																																									
										282										297																																																									
										283										296																																																									
										284										295																																																									
										285																																																																			

**BLACK & VEATCH****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 580.6 ft (NAVD 88)	
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	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	
								CLASSIFICATION OF MATERIALS	REMARKS
							0		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).
							1		
							2		
							3		
							4		
S	1		3.7			1.3	5		
							6		
							7		
S	2		5.0			NR	8		
							9		
							10		
							11		
							12		
S	3		10.0			3.0	13		
							14		
							15		
							13.5		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 @



BLACK & VEATCH

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' E 4606.0'										GROUND ELEVATION (DATUM) 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																																							
SAMPLING										LOGGED BY Grainger/Bonnie/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																																																														
SPT	4	3	3	5	8	1.3																																																															
CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																															
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SPT	23.3		555		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).	TW-5: bottom 6" of tube bent.																																																															
	29.0		551																																																																		
CA	29.0		551		grades w/gabbro gravel, rounded @ 29.0'	Tricone bit refusal @ 30.0'. Caved to 29.0'																																																															



BLACK & VEATCH

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' E 4606.0'										GROUND ELEVATION (DATUM) 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																																															
SAMPLING										LOGGED BY Grainger/Bonnie/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																																																																						
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																						
S 8										30										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										31										549																																																									
										32										548																																																									
										33										547																																																									
										34										546																																																									
										35										545																																																									
HQ 1										36										544																				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' 80°, J, No, No, Ir, SR @ 36.0-36.7' shale partings - 0°, B, PI, SR @ 36.2', 36.5', 36.8', 37.0', 37.2', 37.5', 38.1' 90°, J, No, No, PI, SR @ 37.0-37.3' 80°, J, No, No, PI, SR @ 37.3-37.8' 10°, J, CI, PI, SR @ 37.3' vuggy @ 37.9-38.1' 90°, J, Ca, Pa, WA, SR @ 38.2-38.8' 80°, J, Ca, Pa, PI, SR @ 38.5-39.0' 80°, J, Ca, Pa, PI, SR @ 39.1-39.4' 90°, J, Ca, Pa, PI, SR @ 39.4-39.6' very closely spaced stylolites @ 39.6-39.7' 90°, J, T, Ca, Pa, PI @ 39.7-40.1'										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. Core box #1 starts @ 35.5'.																											
HQ 2										37										543																																																									
										38										542																																																									
										39										541																																																									
										40										540																																																									
										41										539																																																									
										42										538																																																									
										43										537																																																									
										44										536																																																									
										45																																																																			



BLACK & VEATCH

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 Grainger/Bonnie/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	PERCENT RECOVERY	RQD															
HQ	3	5.2	5.2	2.5	100	48		45		535		20°, J, No, No, Pl, 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'									
			48.7					48		532		shale partings - 0°, B, Pl, St, SR @ 47.2', 47.7', 48.5', 48.9'									
								49		531		70°, J, T, Ir @ 48.2-48.9'									
								50		530		100°, J, anhydrite, Pa, Pl, SR @ 48.7-49.1'									
								51		529		highly fractured @ 49.1-49.4', 50.1-50.6'									
HQ	4	5.3	5.3	3.4	100	64		52		528		40°, J, Ca, Pa, Pl, Slk @ 49.3-49.4'									
								53				30°, J, Cl, Pa, Pl, SR @ 49.9-50.0'									
								54		527		shale; black; platy; very fine grained; fresh; strong; hard @ 50.1-50.2'									
								55		526		brecciated (not healed) @ 50.1-50.9'									
								56		525		0.8" vug @ 51.1-51.2'									
								57		524		0°, J, No, No, Pl, SR @ 51.8-52.7'									
								58		523		few vugs @ 52.0'									
								59		522		20°, J, No, No, Pl, SR @ 53.3', 55.6'									
								60		521		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, Pl, SR @ 54.7', 54.9'									
												highly fractured @ 55.1-55.3', 56.2-56.4'									
												60°, J, No, No, Pl, 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, Pl, SR @ 57.7-57.8'									
												70°, J, No, No, Pl, SR @ 58.0-58.3'									
												0°, B, T, Pl, SR @ 58.2-58.3'									
												highly fractured @ 58.4-58.5', 58.9-59.0'									
												90°, J, No, No, Pl, SR @ 58.5-58.9'									
												80°, J, No, No, Pl, SR @ 58.5-58.9'									
												shale band; very dark gray; platy; very fine grained;									

Core box #2 starts @ 48.5'.



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BORING LOG

BORING NO. RB-C3

SHEET 5 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																															
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 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																																																																					
SAMPLING										LOGGED BY TB for Grainger/Bonnie/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer																																																																					
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RQD																																																																																																			
HQ	6	5.0	5.0	3.6	100	72	60								fresh; strong; hard @ 59.0-59.2' dolomite & shale; dolomitic; white & gray, mottled; micritic to very fine grained; fresh; very strong; very hard @ 59.2-59.4'	Core box #3 starts @ 61.5'.																																																																																			
							61								59.4																																																																																				
							62								519																																																																																				
							63								518																																																																																				
							64								517																																																																																				
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							67								514																																																																																				
							68								513																																																																																				
							69								512																																																																																				
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							71								510																																																																																				
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BORING LOG

BORING NO. RB-C3

SHEET 6 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6273.2' E 4606.0'										GROUND ELEVATION (DATUM) 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																																															
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																															
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																						
HQ 9 5.0 5.0 4.9 100 98										75																																																																			
										76										505																				0°, J, T, No, No, Ir, R @ 75.7'										Core box #4 starts @ 75.7'.																											
										77										504																				0°, J, No, No, Ir, R @ 76.2'										Partial loss of drilling fluid @ 76.5'.																											
										78										503																																																									
										79										502																																																									
										80										501																																																									
HQ 10 5.0 5.0 5.0 100 100										81										500																				closely spaced stylolites @ 80.7'																																					
										82										499																																																									
										83										498																																																									
										84										497																				DOLOMITE; gray & light brownish gray, banded; very fine grained (crystalline); fresh; very strong; hard; w/ stylolites; (Bass Islands Group).																																					
										85										496																				0°, J, Cl, Fi, Pl, SR @ 84.5'																																					
										86										495																				20°, J, Cl, Fi, Pl, SR @ 84.5-84.6'																																					
										87										494																				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										493																				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										492																				DOLOMITE & SHALE; dolomitic; gray, mottled; micritic to very fine grained; fresh; very strong; very hard; (Bass Islands Group).																																					
										90										491																				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																																					

7/17/2008 8:39 AM DTE - Fermi 3 Geotech

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)					274.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot										Plant					06/13/07					08/01/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Bonnie/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	12	5.0	5.0	4.4	100	88		90		490		spaced stylolites (7" apart); (Bass Islands Group). highly fractured @ 87.4-87.9' 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' brecciated (healed) @ 89.8-90.3' highly fractured @ 91.7-92.0' 90°, J, T, PI @ 92.0-92.5' (many)																	
								91		489																			
								92		488																			
								93		487																			
								94		486		30°, J, Cl, Fi, PI, SR @ 93.4-93.5' 0°, J, Cl, Fi, PI, SR @ 93.4' 0° & 30° joints filled w/clay & highly fractured dolomite @ 93.4-93.5'																	
								95		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		96		484		shale parting - 0°, B, WA, SR @ 96.4'																	
								97		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' 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'																	
								98		482																			
								99		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'							
								100		480																			
								101		479	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		478	highly fractured @ 101.6-101.7'																		
								103		477	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		476	grades light brownish gray @ 103.8'																		
								105			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' E 4606.0'										GROUND ELEVATION (DATUM) 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													
SAMPLING										LOGGED BY Grainger/Bonnie/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		15		5.0		5.0		2.8		100		56		105								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																													
														107								90°, J, No, No, PI, SR @ 107.1-107.2' highly fractured @ 107.1-109.0' shale parting - 0°, B, PI, SR @ 107.1' 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)																					
														108																													
														109																													
														110								30°, J, Cl, Pa, PI, SR @ 109.5' 90°, J, Cl, Fi, PI, SR @ 109.9-110.1' 0°, B, Cl, Pa, PI, SR @ 109.9' highly fractured @ 110.1-110.3'																					
														111								DOLOMITE; argillaceous; grayish brown; pitted; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; pits 0.004-0.12"; (Bass Islands Group). 90°, J, No, No, PI, SR @ 110.3-110.8', 110.6-111.1' 20°, J, Cl, Pa, PI, SR @ 110.8' 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'																					
														112																													
														113																													
														114								60°, J, Cl, Pa, PI, SR @ 113.5-113.8' very pale brown @ 114.0-115.0' 50°, J, Ca, Pa, PI, R @ 114.0-114.1'																				Core loss @ 113.8-114.0'	
														115																													
														116								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' very strong; very hard @ 115.8-116.8' 0°, B, Cl, Fi, PI, SR @ 116.1' 40°, J, Ca, Pa, PI, SR @ 116.3' 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' 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 box #7 starts @ 116.1'	
														117																													
														118																													
														119																												Core loss @ 118.7-121.6'	
														120																													



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BORING LOG

BORING NO. RB-C3

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 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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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																						
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																							
HQ 18 5.0 2.4 0.0 48 0										120																																																																			
										121										460																																																									
										122										459																																																									
										123										458																																																									
										124										457																																																									
										125										456																																																									
HQ 19 5.0 1.6 0.0 32 0										126										455																																																									
										127										454																																																									
										128										453																																																									
										129										452																																																									
HQ 20 2.5 1.5 0.0 60 0										130										451																																																									
										131										450																																																									
										132										449																																																									
HQ 21 2.5 1.5 0.0 60 0										133										448																																																									
										134										447																																																									
										135										446																																																									

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6273.2'		E 4606.0'	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/13/07	
LOGGED BY		CHECKED BY		APPROVED BY	
Granger/Bonnie/Mass		Dogbey/Mass		Meyer	
SAMPLING		DEPTH (FEET)		CLASSIFICATION OF MATERIALS	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY
HQ	22	2.0	1.5	0.0	75
HQ	23	3.0	1.1	0.0	37
HQ	24	2.5	1.9	0.4	76
HQ	25	2.5	1.5	0.0	60
HQ	26	2.5	1.0	0.0	40
HQ	27	2.5	1.7	0.0	68
REMARKS		ELEVATION (FEET)		GRAPHIC LOG	
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'		135.0			
argillaceous dolomite fragments ; gray; micritic; fresh; strong; hard @ 137.2-137.3'		136.0			
argillaceous dolomite fragments @ 139.0-139.6'		137.0			
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).		138.0			
DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; highly fractured; (Salina Group - Unit F).		139.0			
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).		140.0			
dolomite fragments; argillaceous; dark bluish gray; very fine grained; fresh; strong; hard @ 145.7-146.7'		141.0			
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'		142.0			
moderately weathered; moderately strong; moderately hard @ 148.3-148.4'		143.0			
highly weathered; weak; low hardness @ 148.7-		144.0			



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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 TB for Grainger/Bonnie/Mass					CHECKED BY TB for Dogbey/Mass					APPROVED BY f 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	PERCENT RECOVERY	RQD															
HQ	28	2.5	2.5	2.0	100	80	150					148.9' 60° J, No, No, PI, SR @ 148.9-149.1'					Discrete sample 8-A collected @ 149.9-151.3'.				
							151					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					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	153					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	154					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	155					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	156					40° J, Cl, Fi, PI, SR @ 160.9-161.0'									
							157					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'					Discrete sample 8-B collected @ 161.9-162.8'.				
							158										Core box #9 starts @ 164.0'. Core loss @				
							159														
							160														
							161														
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							163														
							164														
							165														

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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' E 4606.0'										GROUND ELEVATION (DATUM) 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																																																																					
SAMPLING										LOGGED BY Grainger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																					
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HQ	36	2.5	1.0	0.4	40	16	175									DOLOMITE & CLAYSTONE; dolomitic; light greenish gray to very dark gray; pitted; micritic; slightly weathered; strong; hard; (Salina Group - Unit F).																																																																																			
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HQ	37	2.5	0.5	0.0	20	0	178									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'																																																																																			
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7/17/2008 8:39 AM DTE - Fermi 3 Geotech



BLACK & VEATCH

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' E 4606.0'										GROUND ELEVATION (DATUM) 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																																																	
SAMPLING										LOGGED BY Granger/Bonnie/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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												
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																									
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																															
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CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH	
Detroit Edison		Monroe, MI		N 6273.2'		E 4606.0'		580.6 ft (NAVD 88)	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH		DATE START	
Monroe, MI		N 6273.2'		E 4606.0'		580.6 ft (NAVD 88)		274.0 (feet)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START		DATE FINISHED			
Gravel parking lot		Plant		06/13/07		08/01/07			
SAMPLING		LOGGED BY		CHECKED BY		APPROVED BY			
		Granger/Bonnie/Mass		Dogbey/Mass		Meyer			
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES		2ND 6 INCHES		3RD 6 INCHES	
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD	
CORING		RECOVERY		PERCENT RECOVERY		RQD			
DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS	
								REMARKS	
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,Pl,SR @ 208.5' 0° B,Ca,Fi,Pl,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). 90° J,VN,Ca,Fi,WA @ 210.3-211.7' (many) 0° B,No,No,Pl,SR @ 210.5', 211.6'
							214	366	fossils grade out @ 210.8' limestone partings - 0° B,Pl,SR @ 211.2', 213.0'
HQ	49	5.0	4.8	1.6	96	32	215	365	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'
							216	364	LIMESTONE; dark gray; pitted; micritic to very fine grained; slightly weathered; strong; hard; (Salina Group - Unit F). 90° J,Ca,Pa,Pl,SR @ 214.3-214.6' 80° J,Ca,Fi,Pl,SR @ 214.6-215.2'
							217	363	
							218	362	DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; w/fossils (ostracodes); (Salina Group - Unit F). 0° B,No,No,Pl,SR @ 215.9' limestone parting - 0° B,Pl,SR @ 216.1' highly fractured @ 216.5-216.6'
							219	361	
HQ	50	5.0	4.4	1.0	88	20	220	360	LIMESTONE; grayish brown; vuggy; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). 20° J,Ca,Pa,Pl,SR @ 217.5-217.6' highly fractured @ 218.3-218.4' 50° J,Ca,Fi,Pl,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' 30° J,Ca,Pa,Pl,SR @ 220.4-220.5', 220.6-220.7' 70° J,Ca,Pa,Pl,SR @ 220.8-221.2'
							221	359	dolomite; light brownish gray; micritic; fresh; strong; hard; @ 221.4-221.7' 20° J,No,No,Pl,SR @ 222.8'
							222	358	
							223	357	
							224	356	DOLOMITE; light olive brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 10° J,Ci,Fi,Pl,SR @ 222.9'
							225	356	

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BLACK & VEATCH

BORING LOG

BORING NO. RB-C3

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 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													
SAMPLING										LOGGED BY Grainger/Bonnie/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		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		55		5.0		4.6		1.9		92		38		240								<p>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) -236.7'</p> <p>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). -241.3'</p> <p>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' -242.6'</p> <p>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' -243.7'</p> <p>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' -247.3'</p> <p>DOLOMITE & LIMESTONE; mottled; dolomite grades to limestone; (Salina Group - Unit E). -249.6'</p> <p>LIMESTONE; dark grayish brown; pitted/vuggy; slightly to moderately weathered; strong; hard; highly fractured; dolomite fragments in limestone; (Salina Group - Unit E). -250.2'</p> <p>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' grades pale yellow; pitted; w/fossils that dissolve to</p>																				Core loss @ 249.0-249.4'. Water level @ 24.5' prior to drilling on 08/01/07.	
HQ		56		5.0		5.0		2.1		100		42		244.0																													
HQ		57		5.0		4.6		1.5		92		30		249.0																												Core box #14 starts @ 254.0'.	

7/17/2008 8:39 AM DTE - Fermi 3 Geotech



BLACK & VEATCH

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' E 4606.0'										GROUND ELEVATION (DATUM) 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											
SAMPLING										LOGGED BY Grainger/Bonnie/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		58		5.0		3.6		0.4		72		8		255				325				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' grades light gray & grayish brown, banded @ 257.8' -258.8										Core loss of 1.4' @ 255.7-258.7'	
HQ		59		5.0		5.0		3.2		100		64		259				321				DOLOMITE; argillaceous; gray, banded; micritic; fresh; very strong; hard; w/shale partings; (Salina Group - Unit E). -260.1											
HQ		60		5.0		5.0		4.8		100		96		264				316				DOLOMITE; grayish brown; very fine grained (crystalline); fresh; strong; hard; w/gypsum lenses; (Salina Group - Unit E). -265.4											
HQ		61		0.5		0.5		0.0		100		0		269				311				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). -267.8										Core barrel jammed @	

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6273.2'					E 4606.0'					580.6 ft (NAVD 88)		274.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Gravel parking lot										Plant					06/13/07		08/01/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Granger/Bonnie/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								
CORING																					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD															
HQ	62	1.0	1.0	0.0	100	0	270														
			270.5																		
HQ	63	3.5	3.5	3.5	100	100	272														
							273														
							274														
							275														
							276														
							277														
							278														
							279														
							280														
							281														
							282														
							283														
							284														
							285														



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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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 Dogbey/Mass										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		PERCENT RECOVERY		RQD																																																	
S		1				5.0								0		580				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.																					
S		2				5.0								1		579																																													
S		3				10.0								2		578																																													
S		3				10.0								3		577																								Discrete sample S01 collected from S-1.																					
S		3				10.0								4		576																																													
S		3				10.0								5		575																																													
S		3				10.0								6		574																																													
S		3				10.0								7		573																																													
S		3				10.0								8		572																								Discrete sample S02 collected from S-2.																					
S		3				10.0								9		571																																													
S		3				10.0								10		570																																													
S		3				10.0								11		569																																													
S		3				10.0								12		568				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').																					
S		3				10.0								13		567																																													
S		3				10.0								14		566																																													
S		3				10.0								15		565																																													

**BLACK & VEATCH****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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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																			
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		4				15.0						1.7		15		565		564		<p>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.</p>										<p>Below 15.0', continued w/NWJ rods & 4½" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.</p>																			
SPT		5		3		5		6		11		1.5		16		563		562																															
TW		6										1.0		17		561		560		<p>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).</p>										<p>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'</p>										<p>TW refusal @ 21.2'. Hard drilling @ 21.2'.</p>									
SPT		7		2		6		12		18		1.0		18		559		558																															
TW		8										0.2		19		557		556		<p>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).</p>										<p>TW refusal @ 24.2'. Sample w/pitcher sampler.</p>																			
P		9										1.2		20		555		554																															
														21		553		552		<p>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'</p>										<p>PP > 4.5 TSF @ 26.0'. Drilling indicates gravel & cobbles @ 26.0'.</p>																			
														22		551		550																															

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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				
SAMPLING				LOGGED BY Bonnie/Grainger/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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	10	50/4"	-	-	50+	0.2	30		550			
			31.3				31		549			
S	11					3.4	32		548			
							33		547			
							34		546			
			34.7				35		545			
HQ	1	4.3	4.3	2.1	100	49	36		544			
							37		543			
							38		542			
			39.0				39		541			
							40		540			
							41		539			
HQ	2	5.0	5.0	2.9	100	58	42		538			
							43		537			
							44		536			
			44.0				45		536			

4/25/2008 6:35 PM DTE - Fermi 3 Geotech

DOLOMITE; dark gray; micritic; slightly weathered; very strong; very hard; medium bedded; (Bass Islands Group).

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'

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'

0°, J, CI, FI, PI, SR @ 38.8'

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'

0°, B, No, No, PI, R @ 41.1'

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'

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
 highly fractured @ 44.0-44.5'

DOLOMITE; gray; vuggy; micritic to fine grained

Water level @ 18.2' prior to

**BLACK & VEATCH****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 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 Bonnie/Grainger/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						
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'	
							47		533		110° J,Ca,Pa,PI,R @ 46.0-46.4'	
											0° B,No,No,WA,R @ 46.6'	
							48		532		10° J/B,Ca,Pa,PI,SR @ 48.3'	
							49		531		20° J/B,No,No,PI,SR @ 48.8'	Core box #2 starts @ 49.0'.
			49.0								grades pale brown @ 49.0'	
											0° B,Cl,Pa,PI,R @ 49.0'	
											0° B,UK,Pa,St,SR @ 49.3'	
							50		530		90° J,UK,Pa,PI,SR @ 49.3-49.5'	
											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'	Drill chatter @ 52.4'.
											75° J,Ca,Pa,PI,SR @ 52.3-52.5'	
							53		527		0° B,No,No,PI,SR @ 52.4'	
											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'.
			54.0				54		526			Core barrel jammed @ 54.0'.
											40° J,No,No,PI,SR @ 54.9-55.2'	
							55		525			
							56		524		very closely spaced stylolites @ 56.2-56.8'	
							57		523			
											85° J,Ca,Pa,PI,SR @ 57.3-59.0'	Core loss @ 57.4-58.0'.
											0° B,Ca,Pa,PI,SR @ 57.3', 57.7', 57.8'	
							58		522		highly fractured @ 57.4-58.0'	
											40° J,Ca,Pa,PI,SR @ 58.0'	
							59		521			Drill chatter @ 59.2'.
			59.0								SHALE; black; platy; very fine grained; fresh; moderately strong; moderately hard;	
							60					

**BLACK & VEATCH****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'		580.2 ft (NAVD 88)		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				
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	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		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'	
							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'	
							75				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'	

**BLACK & VEATCH****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'		580.2 ft (NAVD 88)		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				
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
HQ	9	5.0	4.4	0.7	88	14	75		505		60° J, No, No, PI, SR @ 75.3-75.4'	
							76		504		0° B, UK, FI, PI, SR @ 75.5'	
											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'	
							78		502		10° J, No, No, PI, SR @ 77.3'	
											70° J, No, No, PI, SR @ 77.4-77.9'	
							79		501		0° B, CI, FI, PI, SR @ 78.4'	
											90° J, Ca, Pa, PI, SR @ 78.4-78.9'	
											90° J, No, No, PI, SR @ 78.5'	
											50° J, Ca, Pa, PI, SR @ 78.7'	
											highly fractured @ 78.8-79.0'	
							80		500		very closely spaced stylolites @ 79.6-80.0'	
							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		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		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)	
											highly fractured @ 84.9-85.1'	
							85		495			
							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		492		SHALE; very dark gray; platy; very fine grained; slightly weathered; moderately strong; moderately hard; (Bass Islands Group).	
							89		491		DOLOMITE; grayish brown; micritic to very fine grained (crystalline); fresh; strong; hard; (Bass Islands Group).	
											0° B, No, No, PI, SR @ 87.7'	
							90					

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Water level @ 18.0' prior to drilling on 06/28/07.
Core box #4 starts @ 79.0'.
Core loss @ 80.5-80.7'.

Soft material @ 83.5'.
Core loss @ 83.7-84.0'.

Drill chatter @ 88.0'.

**BLACK & VEATCH****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' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				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	
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	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' 0° B,UK,Pa,PI,SR @ 88.1' w/fossils (ostracodes) @ 88.1-88.4' 75° J,VN,UK,PI @ 88.4-88.8' highly fractured @ 88.8-89.5' 90° J,Ca,Pa,PI,SR @ 89.5-89.8' 90° J,VN,UK,Ir @ 90.3-91.0' 80° J,No,Pa,PI,SR @ 91.0-91.3' 30° J,CI,Pa,PI,SR @ 91.8'		
							91		489				
							92		488				
							93		487		30° J,UK,Pa,St,SR @ 92.8' 90° J,VN,No,Pa,PI @ 93.0-93.4' 30° J,CI,Pa,PI,SR @ 93.4-93.5'		
							94		486		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).	No drilling fluid return @ 93.5'. Core box #5 starts @ 94.0'.	
							95		485				
							96		484		claystone lens @ 95.4' 60° J,Ca,Pa,PI,SR @ 95.4-95.5' 0° J,No,Pa,PI,SR @ 95.7', 96.9', 97.9' 10° J/B,CI,Pa,PI,SR @ 96.2' claystone parting; black; fresh; moderately strong; moderately hard @ 96.4-96.5'		
							97		483		DOLOMITE; gray, banded; micritic; fresh; strong; hard; w/gray, wavy, convoluted, very closely spaced claystone partings; (Bass Islands Group).		
							98		482		60° J,No,Pa,PI,SR @ 96.5-96.6' highly fractured @ 96.9'		
							99		481		DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; moderately strong; hard; horizontal bands; w/gray claystone partings; (Bass Islands Group).	Drill chatter @ 98.5'.	
							100		480		80° J,Ca,Pa,PI,SR @ 99.0-100.1' 0° B,CI,FI,PI,SR @ 99.2'		
							101		479		highly fractured @ 101.1-101.2' grades dark gray; w/very closely spaced claystone partings @ 101.3'		
							102		478		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'		
							103		477				
							104		476		10° B,CI,Pa,PI,SR @ 103.6'	Drill chatter @ 103.5'.	
							105		475		0° B,CI,Pa,PI,SR @ 104.3' 80° J,Ca,Pa,PI,SR @ 104.3-104.4'		

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**BLACK & VEATCH****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'		580.2 ft (NAVD 88)		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		
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	2.5	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'.
							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' 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' calcite parting; white; 0.1" thick @ 110.9'	Core box #6 starts @ 109.0'.
HQ	16	5.0	5.0	1.4	100	28	110		470			
							111		469			
							112		468		DOLOMITE; 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		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'	
							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'.
HQ	17	5.0	4.1	1.2	82	24	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		461		highly fractured @ 118.8-119.1' 0° J, UK, Pa, Ir, R @ 119.3'	
							120					

**BLACK & VEATCH****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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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/Granger/Mass										CHECKED BY Dogbey/Mass										APPROVED BY Meyer																																																																															
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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										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'.									
HQ										19										5.0										4.2										0.7										84										14										124.0										456										60° J,No,No,PI,SR @ 124.3-124.5'										Core box #7 starts @ 124.0'.									
HQ										20										5.0										1.8										0.4										36										8										129.0										451										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.									
HQ										21										5.0										1.8										0.4										36										8										134.0										446										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'										Water level @ 22.3' prior to drilling on 06/29/07. Core loss @ 129.4-134.0'.									
HQ										22										5.0										1.8										0.4										36										8										134.0										446										claystone band; gray; highly weathered; very weak; low hardness; w/highly fractured limestone partings @ 132.7-132.9'										Core loss throughout @ 134.0-149.0'.									

**BLACK & VEATCH****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' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				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 Dogbey/Mass		APPROVED BY F 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	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				
			136.5				137		443		DOLOMITE; argillaceous; dark gray; vuggy; very fine grained (crystalline); fresh to slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).		
HQ	22	2.5	1.5	0.0	60	0	138		442		0° B, Cl, Pa, Pl, SR @ 137.2', 137.3', 137.5' 40° J, Ca, Pa, Pl, SR @ 138.3-138.5'		
							139		441		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).		
HQ	23	2.5	0.0	0.0	0	0	140		440				
							141		439				
			141.5				142		438				
HQ	24	2.5	1.0	0.0	40	0	143		437		dolomite fragments; dark grayish brown; very fine grained (crystalline); fresh; strong; hard @ 142.3-143.3'		
							144		436				
			144.0				145		435		DOLOMITE; greenish gray; micritic to very fine grained (crystalline); fresh; strong; hard; (Salina Group - Unit F).		
HQ	25	2.5	0.6	0.0	24	0	146		434		90° J, Cl, Pa, Pl, SR @ 145.1-145.3'		
							147		433		CLAYSTONE; based on televiewer log; (Salina Group - Unit F).		
			146.5				148		432		CLAYSTONE; dolomitic; gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).		
HQ	26	2.5	1.6	0.0	64	0	149		431		dolomite fragments; argillaceous; gray; very fine grained (crystalline); fresh to slightly weathered; strong; moderately hard @ 147.1-148.2'		
							150				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' dolomite; argillaceous; gray; micritic; slightly weathered; moderately strong; moderately hard @		



BLACK & VEATCH

BORING LOG

BORING NO. RB-C4

SHEET 11 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																										
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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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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																				BRECCIA - dolomite clasts in a poorly indurated claystone matrix; claystone matrix; dolomitic; gray; moderately weathered; weak; moderately hard; w/ angular clasts of dolomite; gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). dolomite band; gray; very fine grained; slightly weathered; strong; hard @ 150.5-150.6' dark gray @ 150.6-151.1' dolomite; vuggy @ 151.9-152.2', 152.9-153.2' 70°, J, Cl, Pa, Pl, SR @ 152.0-152.2' dolomite band; argillaceous; dark gray; moderately weathered; moderately strong; moderately hard @ 152.5-152.7' 90°, J, Ca, Pa, Pl, R @ 152.9-153.2' highly fractured @ 154.0-157.3' grades dark gray; weak; low hardness @ 154.0'										Core loss @ 151.1-151.5'.																																		
HQ 28 2.5 1.8 0.0 72 0										152																				428																																																																
										153																				427																																																																
										154																				426																																																																
										155																				425																																																																
HQ 29 5.0 1.1 0.0 22 0										156																				424																																																																
										157																				423																																																																
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										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																				CLAYSTONE; dolomitic; bluish gray; highly weathered; very weak; low hardness; (Salina Group - Unit F).																																												
										165																				415																				CLAYSTONE; brecciated, broken; w/highly fractured dolomite partings; (Salina Group - Unit F).										Core loss @ 164.0-164.4'.																																		

BLACK & VEATCH

BORING LOG

BORING NO. RB-C4

SHEET 12 OF 19

CLIENT						PROJECT						PROJECT NO.		
Detroit Edison						Fermi 3 COL Application						147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH					
Monroe, MI			N 6188.9'			E 4448.8'			580.2 ft (NAVD 88)			271.8 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START		DATE FINISHED			
Gravel parking lot near field						Plant			06/14/07		07/13/07			
SAMPLING						LOGGED BY			CHECKED BY			APPROVED BY		
						Bonnie/Grainger/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		
CORING														
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,C,I,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	170		-410		CLAYSTONE; dolomitic; brecciated, broken; greenish gray; highly weathered; weak; low hardness; w/highly fractured dolomite partings; (Salina Group - Unit F).			
							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			Soft drilling; washout @ < 0.5' intervals @ 174.0-179.0'. Drill chatter @ 174.0'. Drill chatter @ 175.0'.		
HQ	36	2.5	0.0	0.0	0	0	175		-405					
							176		-404					
							177		-403			Soft drilling; washout @ < 0.5' intervals @ 176.5-179.0'.		
HQ	37	2.5	0.0	0.0	0	0	178		-402					
							179		-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'.		
							180		-400					

**BLACK & VEATCH****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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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																																																					
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HQ 38 2.5 1.2 0.0 48 0										180 400																																																	
										181 399																																																	
										182 398																																																	
HQ 39 2.5 0.0 0.0 0 0										183 397																																																	
										184 396																																																	
HQ 40 2.5 0.8 0.0 32 0										185 395																																																	
										186 394																																																	
										187 393																																																	
HQ 41 2.5 1.1 0.5 44 20										188 392																																																	
										189 391																																																	
HQ 42 2.5 1.1 0.0 44 0										190 390																																																	
										191 389																																																	
										192 388																																																	
HQ 43 2.5 2.5 1.0 100 40										193 387																																																	
										194 386																																																	
										195																																																	

4/25/2008 6:35 PM DTE - Fermi 3 Geotech



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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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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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'										<p>LIMESTONE; olive gray; vuggy; fine grained (crystalline); moderately weathered; strong; moderately hard; some shale/claystone partings at top; (Salina Group - Unit F). dolomite; light brownish gray; micritic; fresh; strong; hard; some thin vertical banding @ 196.1-196.5' claystone; gray; moderately weathered; weak; low hardness @ 196.5-196.8' dolomite band; light gray; micritic; fresh; strong; moderately hard @ 197.2-197.3' 30°, J, Ca, Fi, PI, SR @ 197.5' 60°, J, No, No, PI, SR @ 198.0'</p>										Core loss @ 195.2-196.1'.																																													
HQ 45 2.5 2.5 0.5 100 20							196							384														196.5																				Core loss @ 197.0', 197.5'.																																													
HQ 46 5.0 3.1 1.9 62 38							197							383														199.0																				Core loss @ 199.0-200.9'.																																													
HQ 47 5.0 3.1 1.1 62 22							198							382														201.4'										<p>DOLOMITE; argillaceous; gray; micritic; slightly weathered; strong; moderately hard; (Salina Group - Unit F). claystone; dolomitic; gray; highly weathered; very weak; low hardness; convoluted contact w/ surrounding dolomite @ 201.8-202.2'</p>										Core loss @ 204.0-206.0'.																																													
HQ 46 5.0 3.1 1.9 62 38							199							381														202.4'																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							200							380														204.0																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							201							379														207.5'										<p>BRECCIA - dolomite & limestone clasts in a well indurated claystone matrix; claystone matrix; bluish gray; slightly weathered; moderately strong; hard; w/ angular sand- & gravel-sized clasts of dolomite & limestone; (Salina Group - Unit F). 90°, J, Ca, Fi, PI, SR @ 202.5-202.8'</p>										Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							202							378														206.0																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							203							377														207.5																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							204							376														209.5'										<p>LIMESTONE; gray; vuggy; fine grained (crystalline); moderately weathered; strong; hard; (Salina Group - Unit F).</p>										Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							205							375														209.0																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							206							374														209.5																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							207							373														209.5'										<p>50°, J, No, No, PI, R @ 209.3-209.5'</p>										Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							208							372														209.5																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							209							371														209.5																				Core loss @ 204.0-206.0'.																																													
HQ 47 5.0 3.1 1.1 62 22							210							370																																																																															

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C4

SHEET 15 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6188.9' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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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DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																								
HQ										48										5.0										5.0										3.2										100										64										210										370										mottled w/dolomite @ 209.9-210.1'										Core box #10 starts @ 212.2'.									
HQ										49										5.0										5.0										2.6										100										52										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' 0°,B/J,Ca,Fi,PI,SR @ 210.5', 210.6', 210.7', 210.8' mottled w/limestone @ 210.8-210.9' 80°,J,Ca,Fi,WA,SR @ 211.1-211.5' stylolites @ 211.8'																			
HQ										50										5.0										4.8										1.6										96										32										212										368										claystone bands; greenish gray; highly weathered; weak; low hardness @ 212.8-212.9', 213.4-213.6' 90°,J,Ca,Fi,PI,SR @ 212.9-213.4'																			
HQ										51										5.0										5.0										2.6										100										52										213										367										LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F). 50°,J,Ca,Fi,PI,SR @ 214.0-214.1'																			
HQ										52										5.0										5.0										2.6										100										52										214										366										DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F). 30°,J,Ca,Pa,PI,SR @ 214.7-214.9'																			
HQ										53										5.0										5.0										2.6										100										52										215										365										LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F). 20°,J,Ca,Fi,PI,SR @ 216.2' grades light gray @ 216.5' mottled w/limestone @ 217.0-217.1'																			
HQ										54										5.0										5.0										2.6										100										52										216										364										LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F).																			
HQ										55										5.0										5.0										2.6										100										52										217										363										DOLOMITE; grayish brown; micritic; fresh; very strong; moderately hard; w/fossils (ostracodes); (Salina Group - Unit F). 20°,J,Ca,Fi,PI,SR @ 216.2' grades light gray @ 216.5' mottled w/limestone @ 217.0-217.1'																			
HQ										56										5.0										5.0										2.6										100										52										218										362										LIMESTONE; dark olive gray; vuggy; very fine to fine grained (crystalline); moderately weathered; strong; hard; no fossils; (Salina Group - Unit F).																			
HQ										57										5.0										5.0										2.6										100										52										219										361										DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). mottled w/limestone @ 218.3-218.7'																			
HQ										58										5.0										5.0										2.6										100										52										220										360										SHALE; light gray; fine grained; extremely weathered; very weak; friable; some dilatancy; convoluted base contact; (Salina Group - Unit F).																			
HQ										59										5.0										5.0										2.6										100										52										221										359										DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). claystone; dark gray; highly weathered; very weak; low hardness @ 220.1-220.5'																			
HQ										60										5.0										5.0										2.6										100										52										222										358										LIMESTONE; dark gray; vuggy; very fine grained; moderately weathered; strong; hard; (Salina Group - Unit F). 110°,J,Ca,Pa,PI,SR @ 220.8-221.4' 70°,J,Ca,Pa,PI,SR @ 221.4-221.7'																			
HQ										61										5.0										5.0										2.6										100										52										223										357																													
HQ										62										5.0										5.0										2.6										100										52										224										356																													
HQ										63										5.0										5.0										2.6										100										52										225										355																													



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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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									
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										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'.									
HQ										52										5.0										2.4										0.4										48										8										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'.									
HQ										53										5.0										2.1										1.2										42										24										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' 90° J,Ca,Pa,PI,SR @ 227.0-227.4' 130° J,Ci,Pa,PI,SR @ 227.1-227.3' 70° J,Ca,Pa,PI,SR @ 227.5-227.8' grades very dark greenish gray @ 227.6' 30° J,Ci,Pa,PI,SR @ 228.8'										PP = 0.1 TSF TV = 0.5 TSF @ 228.9-232.7'. Water level @ 20.1' prior to drilling on 07/12/07. Discrete sample 11-A collected @ 229.0-232.7'.									
HQ										54										5.0										2.1										1.2										42										24										228										352										DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 20° J,Ci,Fi,PI,SR @ 233.0' 50° J,Ca,Fi,PI,SR @ 233.2-233.4' 45° J,Ci,Fi,PI,SR @ 233.7-233.8' 130° J,Ci,Fi,PI,SR @ 233.7-233.8'; banding radiating outward from joint; banding offset in smaller cracks @ 233.6-233.8'										Discrete sample 11-B collected @ 232.7-233.0' for chemical analysis. Discrete sample 11-C collected @ 234.0-237.7'. PP = 1.3 TSF TV = 1.7 TSF @ 234.0-237.7'. Core loss @ 234.0-236.9'.									
HQ										55										5.0										2.1										1.2										42										24										229										351										CLAYSTONE; brecciated; dark gray; highly weathered; very weak; low hardness; some dilatancy; hydrocarbon odor; (Salina Group - Unit F).										Discrete sample 11-D collected @ 237.7-238.2' for chemical analysis. Core loss @ 239.0-239.6'.									
HQ										56										5.0										2.1										1.2										42										24										230										350										DOLOMITE; light gray; micritic; fresh to slightly																			

**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'		580.2 ft (NAVD 88)		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		
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	54	5.0	4.4	2.6	88	52	240		340		weathered; very strong; moderately hard to hard; (Salina Group - Unit E). 0°,B,UK,Pa,PI,SR @ 239.9'	
							241		339		argillaceous; highly fractured @ 240.1-240.7'	
							242		338		claystone; brecciated; gray; highly weathered; very weak; low hardness @ 240.3-240.5'	
							243		337		30°,J,Ca,Pa,PI,SR @ 240.9-241.0', 241.3-241.4', 242.0-242.1'	
							244		336		0°,B,UK,Pa,PI,SR @ 241.1', 241.6', 241.7', 241.9'	
							245		335		very closely spaced stylolites; highly fractured @ 241.5-241.9'	
							246		334		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'	
							247		333		0°,B,No,No,PI,SR @ 243.2', 244.6'	
							248		332		30°,J,Ca,Pa,PI,SR @ 245.4-245.6', 245.6-245.7'	
							249		331		50°,J,Ca,Pa,PI,SR @ 246.2-246.3'	
							250		330		claystone band; 0.4" thick @ 246.5'	
							251		329		0°,B,No,No,PI,SR @ 247.7'	
							252		328		gypsum parting; white; micritic; fresh; weak; low hardness @ 247.9'	
							253		327		10°,J,Gy,FI,PI,S @ 248.0-248.1'	
							254		326		stylolites @ 248.2'	
							255				highly fractured @ 248.8-249.0'	
											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'	
											20°,J,No,No,PI,S @ 252.2'	
											90°,J,VN,Ca,FI,PI @ 253.6-255.0'	
												Core box #12 starts @ 246.7'. Core barrel jammed @ 246.7'. Drill bit teeth stripped @ 246.7'. Pulled casing & 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'
												Water level @ 20.7' prior to drilling on 07/13/07.
												Core loss @ 254.3-254.4'.


4/25/2008 6:35 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****BORING LOG****BORING NO. RB-C4****SHEET 18 OF 19**

CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483																					
PROJECT LOCATION Monroe, MI				COORDINATES N 6188.9' E 4448.8'				GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)				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													
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		4.9		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'							
														257				323											
														258				322											
														259				321				grades w/interbedded gypsum w/convoluted boundaries @ 259.6'							
														260				320				claystone band; dark gray; highly weathered; very weak; low hardness; hydrocarbon odor @ 260.1-260.2'							
														261				319				brecciated dolomite & claystone @ 261.8-262.0'				Discrete sample 12-A collected @ 261.0-261.2' for chemical analysis.			
														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.			
														263				317				30°,J,CI,Pa,PI,SR @ 262.8-262.9'				Core box #13 starts @ 262.7'.			
														264				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). 0°,B,CI,Pa,PI,SR @ 265.2', 265.5'							
														266				314				grades w/very dark gray; platy; very fine grained; fresh; moderately strong; moderately hard shale bands @ 265.9'							
														267				313				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). thickest gypsum bed @ 268.9-269.3'							
														268				312											
														269				311											
														270															

4/25/2008 6:35 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****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' E 4448.8'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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>Bonnie Grainger/Mass</i>										CHECKED BY <i>Dogbey/Mass</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																																									
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																																											
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**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' E 4445.3'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 ^{TB}										CHECKED BY E. J. for Dogbey/Bonnie ^{TB}										APPROVED BY Em Meyer															
SAMPLE TYPE		SAMPLE NUMBER		SET		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		1				2.0								NR										<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>Below 2.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.</p> <p>@ about 6' unidentified material & 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 & 4.5' south of RB-C4a. Bottom of boring @ 6.0'. Boring dry @ completion. Backfilled with cuttings on 06/14/07.</p>																					
																0				580																									
																1				579																									
																2				578																									
																3				577																									
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																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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer EM																																																												
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																				
							0																														Silty COBBLES with Sand - About 60% angular; elongated; very hard cobbles w/max. size 12"; about 20% fine to coarse, rounded, hard sand; about 20% fines (silt); dark gray; loose; strong reaction w/HCl; homogeneous; (Fill).										Boring advanced w/vacuum excavation.																																											
S 1							3.5										NR																														Discrete sample S1 collected.																																											
S 2							5.0										NR																														Vacuum excavation was down to 5.5'; hole collapsed to 3.5'. Below 3.5' continue w/4" ID continuous sonic sampler w/ nominal 6" temporary steel casing advanced w/sampler.																																											
							10.0																														Discrete sample S2 collected.																																																					
S 3																	NR																														Fat CLAY (CH) - About 95% high plasticity, high toughness, no dilatancy, high dry strength fines; about 5% fine sand; gray; firm; moist; no reaction w/HCl; laminated; (Lacustrine Deposit).																																											
							14.0																																								Below 14.0' continue w/NWJ rods &																																											

**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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																																																																																									
SURFACE CONDITIONS Level, gravel parking area										COORDINATE SYSTEM Plant										DATE START 06/14/07										DATE FINISHED 06/28/07																																																																																																									
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**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer SM									
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S							8							4							<p>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.</p>																		
HQ							1							1.5							34.0							<p>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'</p>											
HQ							2							5.0							35.5							<p>0°,J,VN,UK,Pa,PI,SR @ 36.05',36.3',36.45'</p> <p>70°,J,T,No,No,PI,R @ 36.8'</p> <p>0°,J,VN,UK,Pa,PI,SR @ 37.1',37.6'</p> <p>60°,J,T,No,No,PI,SR @ 37.8-38.1'</p> <p>0°,J,VN,UK,Pa,PI,SR @ 38.2',38.6'</p> <p>90°,J,T,No,No,WA,SR @ 38.6-38.8'</p> <p>0°,J,VN,UK,Pa,PI,SR @ 39.2'</p> <p>90°,J,T,No,No,WA,SR @ 39.9-40.3'</p> <p>0°,J,VN,UK,Pa,PI,SR @ 40.0',40.3'</p>											
HQ							3							5.0							40.5							<p>DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group). 0°,J,VN,UK,Pa,PI,SR @ 41.1'</p> <p>90°,J,T,No,No,WA,SR @ 41.9-42.1', 43.3-43.6'</p> <p>highly fractured @ 43.4-43.9'</p> <p>0°,J,VN,UK,Pa,PI,SR @ 43.5', 43.6'</p>											



BLACK & VEATCH

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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																							
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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	
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																																																														
								45						shale parting @ 44.3'										Core box #2 starts @ 45.5'. Water level @ 16.2' prior to drilling on 06/25/07.																																													
								46						highly fractured @ 44.3-45.0'																																																							
								47						90° J,T,No,No,PI,SR @ 45.5-45.8'																																																							
								48						0° J,VN,No,No,WA,R @ 45.8', 46.2', 46.4'																																																							
HQ		4		5.0		5.0		3.2		100		64		49						DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; 5% vugs; (Bass Islands Group).																																																	
														50						0° J,VN,No,No,WA,R @ 47.0', 47.5', 47.9'																																																	
														51						90° J,T,No,No,PI,SR @ 47.2-47.3'																																																	
														52						0° J,VN,No,No,WA,R @ 49.3', 49.6'																																																	
														53						90° J,T,No,No,PI,SR @ 50.0-50.3'																																																	
														54						DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group).																																																	
														55						90° J,T,No,No,PI,SR @ 50.5-50.6', 50.7-51.1'																																																	
														56						0° J,VN,UK,Pa,WA,R @ 50.7'																																																	
														57						DOLOMITE; argillaceous w/stylolites; (Bass Islands Group).																																																	
														58						0° J,VN,UK,Pa,WA,R @ 51.4', 51.5'																																																	
														59						80° J,T,No,No,PI,SR @ 53.1-53.2'																																																	
														60						DOLOMITE; crystalline; light brownish gray; micritic; fresh; strong; hard; parting w/stylolites; (Bass Islands Group).																																																	
														61						BRECCIA; healed; light gray; coarse to fine grained; fresh; strong; hard; dolomite clasts & matrix; (Bass Islands Group).																																																	
														62						0° J,VN,UK,Pa,WA,R @ 56.0', 56.1'																																																	
														63						50° J,T,No,No,PI,SR @ 56.25-56.35'																																																	
														64						DOLOMITE; gray; micritic; fresh; strong; hard; (Bass Islands Group).																																																	
														65						SHALE; very dark gray; fresh; weak; low hardness; (Bass Islands Group).																																																	
														66						DOLOMITE; oolitic; light brownish gray; fresh; strong; hard; (Bass Islands Group).																																																	
														67						0° J,T,No,No,PI,SR @ 58.9'																																																	
														68																																																							
														69																																																							
														70																																																							

BLACK & VEATCH

BORING LOG

BORING NO. RB-C5

SHEET 5 OF 19

CLIENT						PROJECT NO.						
Detroit Edison						Fermi 3 COL Application						
PROJECT LOCATION						COORDINATES						
Monroe, MI						N 6192.8'						
SURFACE CONDITIONS						GROUND ELEVATION (DATUM)						
Level, gravel parking area						E 4525.7'						
						DATE START						
						06/14/07						
						DATE FINISHED						
						06/28/07						
SAMPLING						LOGGED BY						
						Grainger/Bonnie TB						
						CHECKED BY						
						Dogbey/Bonnie TB						
						APPROVED BY						
						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 RECOVERY	PERCENT RECOVERY	RQD						
HQ	7	5.0	5.0	2.9	100	58	60				20°, J,T,No,No,PI,SR @ 60.5-60.7'	
			60.5				61				DOLOMITE; gray & black; mottled; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
							62				0°, J,VN,UK,Pa,WA,R @ 61.5', 61.8'	
							63				85°, J,VN,No,No,PI,R @ 61.9-63.4'	
							64				SHALE; black; (Bass Islands Group).	
							65				DOLOMITE; light brownish gray; strong; hard; w/stylolites & shale partings; (Bass Islands Group).	
							66				0°, J,VN,UK,Pa,WA,R @ 62.6', 62.9'	
							67				BRECCIA, healed; light gray; coarse to fine grained; fresh; strong; hard; argillaceous dolomite clasts & matrix; (Bass Islands Group).	
							68				0°, J,VN,UK,Pa,WA,R @ 63.5'	
							69				DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/stylolites & shale parting; convoluted bedding; (Bass Islands Group).	
							70				0°, J,N,Ci,Pa,WA,R @ 64.0'	
							71				20°, J,T,No,No,PI,SR @ 64.7-64.8'	
							72				0°, J,T,No,No,PI,SR @ 65.7', 66.1'	
							73				highly fractured @ 66.5-67.0'	
							74				DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/shale partings & stylolites; (Bass Islands Group).	
							75				10°, J,VN,UK,Pa,PI,SR @ 67.3'	
							76				0°, J,T,No,No,PI,SR @ 67.8', 68.1'	
							77				highly fractured @ 68.5-70.0'	
							78					
							79					
							80					
							81					
							82					
							83					
							84					
							85					
							86					
							87					
							88					
							89					
							90					
							91					
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							94					
							95					
							96					
							97					
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**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		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</i> Grainger/Bonnie ^{TB}										CHECKED BY <i>for</i> Dogbey/Bonnie ^{TB}										APPROVED BY <i>for</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																									
							75																								
			75.5				76		505																						
							77		504																						
							78		503		0°, J, VN, UK, Fi, PI, SR @ 76.8', 77.7'																				
							79		502		45°, J, T, No, No, PI, R @ 76.9-77.1'																				
HQ	10	5.0	4.8	3.5	96	70	80		501		10°, J, T, No, No, WA, R @ 79.3'																				
							81		500		BRECCIA; healed; dolomite matrix; gray; fresh; strong; hard; w/clasts of light gray; fresh; strong; hard dolomite; (Bass Islands Group).																				
			80.5				82		499		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/shale partings & stylolites; (Bass Islands Group).																				
							83		498		0°, J, T, No, No, PI, SR @ 82.2', 82.4'																				
HQ	11	5.0	5.0	3.2	100	64	84		497		10°, J, T, UK, Pa, SR @ 82.9'																				
							85		496		0°, J, T, UK, Pa, SR @ 83.7'																				
							86		495		SHALE; black; micritic; moderately strong; moderately hard; (Bass Islands Group).																				
			85.5				87		494		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).																				
							88		493		0°, J, VN, UK, Pa, WA, R @ 85.6', 85.8'																				
							89		492		90°, J, T, No, No, WA, R @ 86.1-86.5'																				
							90		491		0°, J, VN, UK, Pa, WA, R @ 86.1', 86.5'																				
											anhydrite filled vug @ 87.2'																				
HQ	12	5.0	5.0	4.1	100	82					Core box #5 starts @ 86.1'.																				
											0°, J, VN, UK, Pa, WA, R @ 88.9', 89.5'																				

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BORING LOG

BORING NO. RB-C5

SHEET 7 OF 19

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6192.8' E 4525.7'		580.6 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Level, gravel parking area		Plant		06/14/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer EM	
SAMPLING		CHECKED BY		APPROVED BY	
		Dogbey/Bonnie TB			
SAMPLING		LOGGED BY		APPROVED BY	
		Grafinger/Bonnie TB		Meyer	

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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>3/2/08</i> Grainger/Bonnie <i>TB</i>										CHECKED BY <i>12/07</i> Dogbey/Bonnie <i>TB</i>										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																											
HQ	16	5.0	4.8	1.8	96	36	105		475		60°, J, T, No, No, PI, SR @ 105.3-105.5'	Core box #7 starts @ 114.2'.																											
							105.5		475		90°, J, T, No, No, PI, SR @ 105.5-106.0'																												
							106		474		60°, J, T, No, No, PI, S @ 105.8-106.2'																												
							107		473																														
							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		470		0°, J, T, No, No, PI, SR @ 109.2'																												
							110.5		470		90°, J, VN, anhydrite, Pa, WA, R @ 109.5-110.5'																												
							111		469		60°, J, T, No, No, PI, S @ 109.6-109.8'																												
							112		468																														
HQ	17	5.0	5.0	4.0	100	80	113		467																														
							114		466		0°, J, T, No, No, WA, SR @ 114.5'																												
							115		465		90°, J, VN, UK, Pa, WA, SR @ 114.5-115.5'																												
							115.5		465		highly fractured @ 115.5-116.5'																												
							116		464																														
							117		463		90°, J, VN, Ca, Pa, WA, SR @ 117.1-117.6'																												
HQ	18	5.0	3.6	0.7	72	14	118		462		DOLOMITE; dark gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).																												
							119		461		0°, J, T, No, No, PI, SR @ 118.1', 118.2'																												
							120		461		shale band (0.05' thick) @ 118.5'																												
											0°, J, T, No, No, PI, SR @ 118.7', 118.9'																												
											shale band (0.05' thick) @ 119.1'																												
											0°, J, T, No, No, PI, SR @ 119.5', 119.7'																												

BLACK & VEATCH

BORING LOG

BORING NO. RB-C5

SHEET 9 OF 19

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 4525.7'				580.6 ft (NAVD 88)				270.5 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, gravel parking area						Plant				06/14/07		06/28/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Grainger/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	
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
							120				shale band (0.05' thick) @ 119.8'		
			120.5						460		highly fractured @ 120.5-122.5'		
							121		459				
							122		458		DOLOMITE; argillaceous; very dark brown; very fine grained; strong; hard; w/some anhydrite bedding & shale partings; (Salina Group - Unit F).		
HQ	19	5.0	2.5	0.5	50	10	123		457				
							124		456		0°,J,T,No,No,PI,SR @ 124.2', 124.7', 125.2'		
							125		455				
			125.5				126		454		0°,J,VN,No,No,PI,SR @ 126.7', 126.8'		
							127		453		0°,J,VN,No,No,PI,SR @ 127.4'		
HQ	20	5.0	2.8	0.6	56	12	128		452		0°,J,VN,No,No,PI,SR @ 128.2', 128.4'		
							129		451		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'		
							130		450		LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°,J,T,No,No,PI,SR @ 130.0-130.2'		
			130.5				131		449			Water level @ 20.5' prior to drilling on 06/26/07.	
							132		448		CLAYSTONE; bluish gray; weak; low hardness; w/interbedded dolomite; (Salina Group - Unit F).		
HQ	21	5.0	2.2	0.0	44	0	133		447				
							134		446		DOLOMITE; bluish gray; micritic; moderately strong; hard; (Salina Group - Unit F). highly fractured @ 134.5-135.5'		
							135						

**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' E 4525.7'		GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)	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>Bonnie</i> Grainger/Bonnie ^{7B}	CHECKED BY <i>Bonnie</i> Dogbey/Bonnie ^{7B}	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 RECOVER	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						
			135.5				135		445			Core box #8 starts @ 135.5'.
							136		444			
							137		443		CLAYSTONE; bluish gray; weak; low hardness; (Salina Group - Unit F).	
HQ	22	5.0	1.7	0.5	34	10	138		442			
							139		441			
							140		440		LIMESTONE; dark greenish gray; micritic; strong; hard; (Salina Group - Unit F).	
			140.5				141		439		DOLOMITE; bluish gray; micritic; strong hard; (Salina Group - Unit F).	
HQ	23	2.5	1.5	0.0	60	0	142		438			
							143		437		CLAYSTONE; bluish gray; weak; low hardness; w/dolomite layers; (Salina Group - Unit F).	
							144		436			
							145		435			
			145.5				146		434			
HQ	25	2.5	2.0	0.0	80	0	147		433		grades greenish gray @ 147.5'	
							148		432			
							149		431		dark gray @ 149.0-149.2'	
HQ	26	2.5	2.5	0.0	100	0	150					

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BLACK & VEATCH

BORING LOG

BORING NO. RB-C5

SHEET 11 OF 19

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 4525.7'					580.6 ft (NAVD 88)					270.5 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Level, gravel parking area										Plant					06/14/07					06/28/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Bonnie					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																	
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																	
							150				dark gray @ 150.2-150.4'																		
			150.5				151		430																				
							152		429																				
							153		428																				
HQ	27	5.0	3.0	0.0	60	0	154		427		dolomite; gray @ 154.0-154.3'																		
							155		426		dolomite band; gray @ 154.9-155.1'																		
			155.5				156		425			Core box #9 starts @ 155.5'.																	
							157		424																				
							158		423																				
HQ	28	5.0	3.5	0.0	70	0	159		422		dolomite band; dark bluish gray @ 158.5-158.7'																		
							160		421																				
			160.5				161		420																				
							162		419																				
							163		418																				
HQ	29	5.0	3.0	0.0	60	0	164		417		dolomite band; dark bluish gray @ 163.4-163.6'																		
							165		416																				

**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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 Grainger/Bonnie ^{TB}										CHECKED BY Dogbey/Bonnie ^{TB}										APPROVED BY Meyer ^{EM}																																				
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td>CORE SIZE</td> <td>RUN NUMBER</td> <td>RUN LENGTH</td> <td>RUN RECOVERY</td> <td>RQD RECOVERY</td> <td>PERCENT RECOVERY</td> <td>RQD</td> </tr> </table>										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	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										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)																																																																
							165						dolomite; dark bluish gray @ 165.1-165.5'																																																					
							165.5						BRECCIA; poorly indurated claystone matrix; gray; fresh; weak; low hardness; w/fragments of angular, dark bluish gray, strong, hard claystone; (Salina Group - Unit F).																																																					
							166						dolomite @ 167.3-167.6'																																																					
							167																																																											
							168																																																											
							169																																																											
							170																																																											
							171																																																											
							172						0°, J, T, No, No, PI, SR @ 172.3'																																																					
							173						DOLOMITE; (Bass Islands Group). 0°, J, VN, UK, Pa, PI, SR @ 172.8'																																																					
							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). dolomite band @ 174.3-174.5'																																																					
							175						CLAYSTONE; dark bluish gray; weathered; weak; low hardness; (Salina Group - Unit F).																																																					
							176																																																											
							177																																																											
							178																																																											
							179						Core box #10 starts @ 179.0'																																																					
							180						LIMESTONE; crystalline; gray; micritic; fresh; strong; hard; 10% vuggy; (Salina Group - Unit F).																																																					

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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>BoB</i> Grainger/Bonnie ^{TB}										CHECKED BY <i>BoB</i> Dogbey/Bonnie ^{TB}										APPROVED BY <i>EM</i> Meyer																																																																															
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																				180																																																																																									
																				180.5																																																																																									
																				181																																																																																									
																				182																																																																																									
																				183																																																																																									
HQ										35										5.0										3.0										1.3										60										26																																																	
																				184																																																																																									
																				185																																																																																									
																				185.5																																																																																									
																				186																																																																																									
																				187																																																																																									
																				188																																																																																									
HQ										36										5.0										1.8										0.0										36										0																																																	
																				189																																																																																									
																				190																																																																																									
																				190.5																																																																																									
																				191																																																																																									
HQ										37										2.5										0.7										0.0										28										0																																																	
																				192																																																																																									
																				193																																																																																									
																				193.0																																																																																									
																				194																																																																																									
HQ										38										2.5										1.0										0.0										40										0																																																	
																				195																																																																																									

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90°, J, VN, No, No, WA, R @ 181.7-182.0'

0°, J, VN, No, No, PI, SR @ 182.2', 182.4'

grades light brownish gray @ 183.5'

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)

limestone band; greenish gray @ 191.2-191.4'

dolomite; bluish gray @ 192.8-193.1'

dolomite; bluish gray @ 194.3-194.6'

Water level @
23.9' prior to
drilling on
06/27/07.

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 4525.7'			580.6 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Level, gravel parking area						Plant		06/14/07		06/28/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Grainger/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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							195					
			195.5						385			
							196					
HQ	39	2.5	1.3	0.0	52	0			384			
							197					
									383			
							198					
			198.0						382			
							199					
HQ	40	2.5	1.0	0.0	40	0			381			
							200					
									380			
			200.5						379			
							201					
HQ	41	2.5	1.7	0.8	68	32			378			
							202					
							203					
			203.0						377			
							204					
HQ	42	2.5	2.0	0.0	80	0			376			
							205					
									375			
			205.5						374			
							206					
							207					
									373			
HQ	43	5.0	3.0	0.45	60	9			372			
							208					
							209					
									371			
							210					

**BLACK & VEATCH****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 6192.8' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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>										CHECKED BY <i>Dogbey/Bonnie</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																																									
														210																																															
HQ		44		5.0		4.0		2.0		80		40		210.5																																															
														211																																															
														212																																															
														213								0°, J, VN, No, No, WA, R @ 212.1', 212.2'																																							
														214								212.3 DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																							
														215								10°, J, VN, UK, Pa, R @ 212.6'																																							
														216								0°, J, VN, No, No, WA, R @ 212.8', 213.0', 213.9'																																							
														217								60°, J, T, No, No, PI, SR @ 214.6'																																							
														218								60°, J, VN, Ca, Pa, PI, SR @ 215.0-215.5'																																							
														219								215.6 LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																							
														220								217.7 DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																							
														221								218.9 LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).																																							
														222								60°, J, VN, No, No, PI, R @ 219.9'																				Core box #12 starts @ 219.7'.																			
														223								220.5 BRECCIA; healed; grayish brown; fine to coarse grained; (Salina Group - Unit F).																																							
														224								221.0 DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																							
														225								221.5 CLAYSTONE; dark bluish gray; weathered; weak; low hardness; (Salina Group - Unit F).																																							
																						221.9 DOLOMITE; light gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																							
																						222.5 LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).																																							

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		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 Grainger/Bonnie										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																																																																																															
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RQD																																																																																																					
HQ 47 5.0 4.2 1.7 84 34										225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240										355 354 353 352 351 350 349 348 347 346 345 344 343 342 341										DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). breccia band; grayish brown @ 227.3-227.5' 20°, J, T, VN, UK, R @ 227.7-227.9' 30°, J, VN, UK, Pa, PI, SR @ 228.4' 60°, J @ 228.6-228.8' BRECCIA; healed; grayish brown; fine to coarse grained; fresh; moderately strong; hard; (Salina Group - Unit F). DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). BRECCIA; healed; grayish brown; fine to coarse grained; fresh; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). LIMESTONE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; strong; hard; (Salina Group - Unit F). 90°, J, T, No, No, PI, SR @ 236.6-237.2' CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F). LIMESTONE; gray; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). DOLOMITE; shaley; light gray; micritic; fresh; strong; hard; w/ostracodes; (Salina Group - Unit E).																																																																							
HQ 48 5.0 1.0 0.0 20 0																																																																																																					
HQ 49 2.5 1.0 0.0 40 0																																																																																																					
HQ 50 2.5 2.3 0.0 92 0																																																																																																					

**BLACK & VEATCH****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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										TOTAL DEPTH 270.5 (feet)																																																																																																																																
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HQ	51	5.0	4.8	3.4	96	68																																																																																																																																																								
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**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' E 4525.7'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)																																																																																																																																												
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BLACK & VEATCH

BORING LOG

BORING NO. RB-C5

SHEET 19 OF 19

CLIENT				PROJECT				PROJECT NO.			
Detroit Edison				Fermi 3 COL Application				147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)			
Monroe, MI				N 6192.8'				E 4525.7'			
580.6 ft (NAVD 88)				TOTAL DEPTH				270.5 (feet)			
SURFACE CONDITIONS				COORDINATE SYSTEM				DATE START			
Level, gravel parking area				Plant				06/14/07			
DATE FINISHED				06/28/07							
SAMPLING				LOGGED BY				CHECKED BY			
GRAINGER/BONNIE				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			
CORING				ELEVATION (FEET)				GRAPHIC LOG			
CORE SIZE				RUN NUMBER				RUN LENGTH			
RUN RECOVERY				RQD				PERCENT RECOVERY			
RQD											
270				310				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/anhydrite banding; (Salina Group - Unit E).			
271				309				DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E).			
272				308							
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											
								Bottom of boring @ 270.5'. Water level @ 23.5' @ completion of drilling. Boring caved @ 158.4'. Cleared caving. 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.			

**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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										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 Grainger/Mass/Ohlmacher										CHECKED BY Dogbey/Ohlmacher										APPROVED BY Meyer																																																					
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 2 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6192.8' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																																																															
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SPT										4										3										4										4										8										0.2										15										565										<p>Below 14.0' continued w/4½" tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.</p> <p>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).</p> <p>0.1' fine sand seam @ 22' (bottom of tube)</p>										PP > 4.5 TSF									
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																																								24										556																																																											
SPT										6										13										16										19										35										1.3										25										555										<p>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).</p> <p>DOLOMITE; crystalline; dark gray; micritic; fresh; very</p>										Tricone refusal @ 29.5'									
																																																		26										554																																																	
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BLACK & VEATCH

BORING LOG

BORING NO. RB-C6

SHEET 3 OF 17

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6192.8' E 4606.0'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/14/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
SAMPLING		APPROVED BY			
		Meyer			
SAMPLING		LOGGED BY			

BLACK & VEATCH

BORING LOG

BORING NO. RB-C6

SHEET 4 OF 17

CLIENT										PROJECT										SHEET NO. 1									
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 TB for Grainger/Mass/Ohlmacher					GEO. For Dogbey/Ohlmacher					GEO. For Meyer									
CORING										CLASSIFICATION OF MATERIALS										REMARKS									
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																		
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'																	
			45.5					46		535																			
								47		534																			
								48		533																			
								49		532																			
								50		531		DOLOMITE; light gray; micritic; fresh; very strong; very hard; w/zones of very closely spaced stylolites; moderately wide spaced stylolites throughout; (Bass Islands Group).																	
			50.5					51		530																			
								52		529																			
PQ	5	5.0	5.0	4.9	100	98		53		528		0° B, No, No, WA, SR @ 52.3' 50° J, No, No, PI, SR @ 53.2-53.5'																	
								54		527		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'																	
								55		526		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'																	
			55.5					56		525																			
								57		524		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'																	
PQ	6	5.0	5.0	4.4	100	88		58		523																			
								59		522		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'																	
								60		521																			



BORING LOG

BORING NO. RB-C6

SHEET 5 OF 17

CLIENT										PROJECT										SHEET NO. 1									
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 82 for 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																
CORING																													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																							
PQ	7	5.0	5.0	2.4	100	48	60					80° J, No, No, PI, SR @ 60.2-60.4'	Core box #4 starts @ 59.9'.																
			60.5				61					thin dolomite bed; argillaceous; gray; very fine grained (crystalline); fresh; very strong; hard; banded @ 60.2-60.5'																	
							62					shale band; very dark gray; micritic; highly weathered; weak; low hardness @ 60.5-60.7'																	
							63					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					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					80° J, No, No, PI, SR @ 61.4-62.7' brecciated; healed; w/wavy convoluted shaley partings @ 61.6-62.9'																	
			65.5				66					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'																	
PQ	8	2.5	2.5	0.3	100	12	67					80° J, No, No, PI, SR @ 64.2-64.7' 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'																	
							68					30° J, CI, FI, PI, SR @ 65.8-65.9' 0° B, UK, FI, PI, SR @ 66.1'	Core box #5 starts @ 68.0'. Core barrel blocked @ 68.0'.																
							69					DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 90° J, CI, Pa, WA, SR @ 66.5-67.3' 0° B, UK, FI, PI, SR @ 66.5', 66.8'																	
PQ	9	2.5	2.5	1.7	100	68	70					highly fractured @ 67.3-67.5' 70° J, No, No, PI, SR @ 67.5-67.7'																	
							71					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'																	
							72					highly fractured @ 67.8-68.0' 90° J, CI, FI, PI, SR @ 68.1-68.3' (2 parallel joints) pitted @ 68.3-68.6'																	
			70.5				73					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'																	
PQ	10	5.0	5.0	5.0	100	100	74					highly fractured @ 69.9-70.1' 0° B, No, No, PI, SR @ 71.6'																	
							75					very closely spaced stylolites @ 74.7-74.8'																	

CLIENT										PROJECT										SHEET NO. OF TOTAL SHEETS									
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI					COORDINATES N 6192.8'					E 4606.0'					GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)					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 MS for</i> Grainger/Mass/Ohlmacher					CHECKED BY <i>GEO</i> Dogbey/Ohlmacher					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																							
			75.5					75				10°,B,No,No,WA,SR @ 75.0' shale partings @ 75.2-75.3'										Core box #6 starts @ 75.5'.							
								76				very closely spaced stylolites @ 76.0-76.3'																	
PQ	11	3.0	3.0	1.9	100	63		77				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				silt band; about 100% low plasticity, low toughness, slow dilatancy fines; gray; firm; moist; slight hydrocarbon odor; strong reaction w/HCl; homogeneous @ 77.9-78.0'											Core barrel jammed @ 78.5'.						
PQ	12	2.0	2.0	0.4	100	20		79				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'																	
			80.5					80				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'																	
								81				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'																	
PQ	13	2.5	2.5	1.3	100	52		82				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'.							
			83.0					83																					
PQ	14	2.5	2.5	1.5	100	60		84				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'																	
			85.5					85				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																					
								87																					
PQ	15	5.0	5.0	0.7	100	14		88				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-																	
								89																					
								90																					

**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		
SAMPLING					LOGGED BY Grainger/Mass/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						
PQ	16	5.0	5.0	1.9	100	38	90				90.0' 20°, J, Cl, Pa, Pl, SR @ 89.9-90.0'	Core box #8 starts @ 90.5'.
			90.5				91	490			fractured @ 90.8-91.3' DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; hard; (Bass Islands Group). 85-90°, J, T, No, No, Ir, R @ 90.8-92.9'	
							92	489				
							93	488			DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; banded; w/shale partings; (Bass Islands Group). closely spaced black shale partings @ 93.1-93.4' anhydrite band w/shale partings @ 93.4-93.5' 90°, J, T, No, No, Ir, R @ 93.5-94.0', 95.7-96.0' convoluted bedding @ 93.8-94.4'	
							94	487				
							95	486				
PQ	17	5.0	4.6	2.7	92	54	96	485			60°, J, N, Ca, Sp, Ir, R @ 95.5' fractured, some clay @ 95.6-95.8' 0°, B, T, Ca, Sp, Pl, SR @ 96.1'	Core box #9 starts @ 99.2'.
			95.5				97	484			0°, B, T, Ca, Sp, Pl, SR @ 97.1', 97.2'	
							98	483			0°, B, T, Ca, Sp, Pl, SR @ 97.6', 97.7' 90°, J, T, No, No, Ir, R @ 97.6-97.9'	
							99	482			DOLOMITE; crystalline; gray; micritic; fresh; very strong; hard; massive; w/stylolites; (Bass Islands Group). 0°, B, T, Ca, Sp, Pl, SR @ 98.3', 98.5', 99.0', 99.1', 99.5'	
							100	481				
							101	480			85-90°, J, T, No, No, Ir, VR @ 100.1-100.8'	
							102	479			0°, B, N, UK, Sp, WA, SR @ 100.8', 101.3', 101.4'	
							103	478			0°, B, N, UK, Sp, WA, SR @ 102.5', 103.2'	
							104	477			70°, J, T, No, No, Ir, R @ 103.2-104.0'	
PQ	18	5.0	5.0	3.2	100	64	105	476			0°, B, N, UK, Sp, WA, SR @ 104.0' 0°, B, T, Ca, Fi @ 104.4', 104.5'	



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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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		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 Grainger/Mass/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 RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS										REMARKS	
														105								pyrite & argillaceous fracture filling @ 105.2-105.3'											
														105.5																			
														106								0°,B,N,UK,Su,PI,SR @ 106.0',106.6',106.9'											
														106																			
														107								85-90°,J,T,Ca,Pa,Ir,VR @ 106.6-108.9'											
														107																			
														107								DOLOMITE; argillaceous; grayish brown; fresh; strong; hard; w/stylolites; (Bass Islands Group). 0°,B,N,UK,Su,PI,SR @ 107.1',107.6'											
														108																			
PQ		19		5.0		4.5		2.8		90		56		108							fractured @ 108.2-108.8'												
														109																			
														109							0°,B,MW,Ca,Fi,PI @ 108.9'												
														110							60°,J,T,No,No,Ir,R @ 109.0-109.6'												
														110																			
														111																			
														111							60°,J,MW,solutioned @ 111.1-111.3'												
														112																			
														112																			
PQ		20		5.0		3.8		3.7		76		74		113																			
														113																			
														114																			
														114							SHALE; very dark gray; fissile; slightly weathered; weak; low hardness; (Salina Group - Unit F). 10°,B,T,UK,Su,Ir,R @ 113.8'												
														115																			
														115							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'												
														116																			
PQ		21		2.5		2.5		0.4		100		16		117							fractured @ 116.7'												
														117																			
														118																			
														118																			
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PQ		22		2.5		2.3		0.4		92		16		119																			
														120																			

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 9 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																															
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CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6192.8' E 4606.0'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/14/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Grainger/Mass/Ohlmacher		Dogbey/Ohlmacher	
APPROVED BY					
Meyer					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
135		445		SHALE; w/siltstone interbeds; bluish gray; fresh; very weak; low hardness; banded; (Salina Group - Unit G).	
136	PQ	444			
137		443		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.
138		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	NQ	441		SHALE; calcareous; bluish gray; fissile; fresh; strong; moderately hard; (Salina Group - Unit F).	
140		440			
141		439		claystone band interbedded w/shale @ 142.0'	
142		438			
143	PQ	437		dolomite band; highly fractured @ 143.1-143.2', 143.5-143.7'	144.0-145.0 sample wrapped in plastic
144		436			
145		435			Core box #13 starts @ 145.5'.
146		434			
147		433		thin limestone bed; greenish gray; vuggy; highly fractured @ 147.8-148.1'	
148	PQ	432		dolomite band; highly fractured @ 148.5-148.7'	
149		431		highly fractured @ 149.0-149.2'	
150					



BLACK & VEATCH

BORING LOG

BORING NO. RB-C6

SHEET 11 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
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BLACK & VEATCH

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BORING NO. RB-C6

SHEET 12 OF 17

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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C6

SHEET 13 OF 17

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																													
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Interval reamed w/PQ core barrel after test.</td> </tr> <tr> <td>181</td> <td></td> <td>400</td> <td></td> <td>CLAYSTONE & BRECCIA; dark bluish gray; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>182</td> <td></td> <td>399</td> <td></td> <td>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).</td> <td></td> </tr> <tr> <td>183</td> <td></td> <td>398</td> <td></td> <td></td> <td></td> </tr> <tr> <td>184</td> <td></td> <td>397</td> <td></td> <td>grades clasts; dark brown; fresh; 15% vugs @ 184.0'.</td> <td></td> </tr> <tr> <td>185</td> <td></td> <td>396</td> <td></td> <td>grades shale clasts; gray; white calcite matrix; limestone clasts & clay matrix grade out @ 185.5'</td> <td></td> </tr> <tr> <td>186</td> <td></td> <td>395</td> <td></td> <td>CLAYSTONE; dark bluish gray to light greenish gray; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>187</td> <td></td> <td>394</td> <td></td> <td>0°, J, T, No, No, PI, S @ 186.6', 189.3' highly fractured @ 187.1-187.5'</td> <td>Core box #16 starts @ 187.0'.</td> </tr> <tr> <td>188</td> <td></td> <td>393</td> <td></td> <td>SHALE; greenish gray; fresh; moderately strong; low hardness; banded; (Salina Group - Unit F).</td> <td></td> </tr> <tr> <td>189</td> <td></td> <td>392</td> <td></td> <td>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).</td> <td></td> </tr> <tr> <td>190</td> <td></td> <td>391</td> <td></td> <td>0°, J, VN, No, No, PI, SR @ 188.8', 189.1' highly fractured @ 189.1-189.3'</td> <td></td> </tr> <tr> <td>191</td> <td></td> <td>390</td> <td></td> <td>LIMESTONE; brown; micritic; fresh; top of limestone moderately weathered; strong; hard; 10% vugs; (Salina Group - Unit F).</td> <td>NQ core barrel used @ 191.0-197.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.</td> </tr> <tr> <td>192</td> <td></td> <td>389</td> <td></td> <td>0°, J, VN, No, No, PI, SR @ 189.9', 190.1'</td> <td></td> </tr> <tr> <td>193</td> <td></td> <td>388</td> <td></td> <td></td> <td></td> </tr> <tr> <td>194</td> <td></td> <td>387</td> <td></td> <td></td> <td>Core barrel blocked</td> </tr> <tr> <td>195</td> <td></td> <td>386</td> <td></td> <td></td> <td></td> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS	180					NQ core barrel used @ 180.0-185.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.	181		400		CLAYSTONE & BRECCIA; dark bluish gray; (Salina Group - Unit F).		182		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).		183		398				184		397		grades clasts; dark brown; fresh; 15% vugs @ 184.0'.		185		396		grades shale clasts; gray; white calcite matrix; limestone clasts & clay matrix grade out @ 185.5'		186		395		CLAYSTONE; dark bluish gray to light greenish gray; fresh; moderately strong; low hardness; massive; (Salina Group - Unit F).		187		394		0°, J, T, No, No, PI, S @ 186.6', 189.3' highly fractured @ 187.1-187.5'	Core box #16 starts @ 187.0'.	188		393		SHALE; greenish gray; fresh; moderately strong; low hardness; banded; (Salina Group - Unit F).		189		392		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).		190		391		0°, J, VN, No, No, PI, SR @ 188.8', 189.1' highly fractured @ 189.1-189.3'		191		390		LIMESTONE; brown; micritic; fresh; top of limestone moderately weathered; strong; hard; 10% vugs; (Salina Group - Unit F).	NQ core barrel used @ 191.0-197.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.	192		389		0°, J, VN, No, No, PI, SR @ 189.9', 190.1'		193		388				194		387			Core barrel blocked	195		386			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																																																											
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BLACK & VEATCH

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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										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 GTO for Grainger/Mass/Ohlmacher										CHECKED BY GCO 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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS																				REMARKS																			
							195		385																																									
NQ	43	1.0	0.4	0.0	40	0	196		384																																									
PQ	44	1.0	0.8	0.4	80	40	197		383		LIMESTONE; dark bluish gray; micritic; fresh; strong; hard; w/calcite nodules; (Salina Group - Unit F).																																							
							198		382																						NQ core barrel used @ 198.0-203.0' for pressuremeter test. Interval reamed w/PQ core barrel after test.																			
							199		381		grades 5% vugs @ 199.0'																																							
NQ	45	5.0	0.9	0.0	18	0	200		380																						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'.																			
							201		379																																									
							202		378																																									
PQ	46	1.0	0.7	0.7	70	70	203		377		grades brown & bluish gray; 15% vugs; some brachiopod fossils @ 203.1'																																							
							204		376																																									
							205		375		grades no vugs @ 205.5'																																							
NQ	47	5.0	1.4	0.0	28	0	206		374		LIMESTONE; oolitic; grayish brown; (Salina Group - Unit F). 90°, V, VN, Ca, Fi, PI, S @ 206.3-206.5'																																							
							207		373		LIMESTONE; brown & bluish gray; micritic; fresh; strong; hard; w/calcite nodules; some brachiopod fossils; (Salina Group - Unit F).																																							
							208		372																																									
PQ	48	1.0	1.0	0.0	100	0	209		371		DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).																				Core box #17 starts @ 209.0'.																			
							210		371																																									

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

**BLACK & VEATCH****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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)		TOTAL DEPTH 240.0 (feet)	
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant										DATE START 06/14/07		DATE FINISHED 09/19/07	
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>for TB for</i> Grainger/Mass/Ohlmacher										CHECKED BY <i>for TB for</i> Dogbey/Ohlmacher		APPROVED BY <i>for TB for</i> Meyer	
CORING										CLASSIFICATION OF MATERIALS										REMARKS			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG													
NQ	49	5.0	2.1	0.0	42	0	210		370		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' -----211.0 LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; (Salina Group - Unit F). -----212.2 DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°, J, VN, Ca, Pa, PI, S @ 212.3-213.0' -----213.5 LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; fossils; oolites; (Salina Group - Unit F). 90°, J, VN, Ca, Pa, PI, S @ 213.5-213.7'										NQ core barrel used @ 210.0- 215.0' for pressuremeter test. Interval reamed w/PQ core barrel after test. During reaming, drill locked in boring & freed @ 210.5'. Plugged w/clay/ gravel from reamed interval.		
PQ	50	5.5	4.9	2.8	89	51	215		365		highly fractured @ 215.1-215.3' highly fractured @ 215.8-215.9' 0°, J, N, No, No, PI, R @ 216.3' grades interbedded limestone & pale brown dolomite @ 216.3' 1.5" chert nodule @ 216.4' 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' -----217.4 DOLOMITE; argillaceous; pale brown; micritic; fresh; strong; hard; few fossils (ostracodes); (Salina Group - Unit F). 90°, J, N, Ca, Pa, WA, SR @ 217.4-218.2', 218.2-218.9' highly fractured @ 218.2-218.5' -----219.1 SHALE; bluish gray to dark bluish gray; fresh; moderately strong to very weak; friable; (Salina Group - Unit F). -----220.7 LIMESTONE; dark bluish gray; micritic; fresh; strong; moderately hard; banded; w/shale bands; (Salina Group - Unit F). -----221.7 CLAYSTONE; dark bluish gray; fresh; weak; low hardness; interbedded w/dolomite & limestone; (Salina Group - Unit F).										Water level @ 23.41' prior to drilling on 09/18/07.		
PQ	51	4.5	1.3	0.0	29	0	220.5		360		Core box #18 starts @ 220.5'.												
							221		359														
							222		358														
							223		357														
							224		356														
							225		355														

**BLACK & VEATCH****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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										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 Grainger/Mass/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 RECOVERY		PERCENT RECOVERY		RQD																																																	
NQ		52		4.0		4.0		0.0		100		0		225				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.																			
														226				354				dolomite parting @ 227.5'																																							
														227				353				silty sandy clay @ 227.8-228.2'																																							
														228				352																																											
														229				351																																											
PQ		53		1.5		1.5		0.0		100		0		230				350				SANDSTONE; dark grayish brown; fresh; strong; moderately hard; calcite cement; (Salina Group - Unit F).																																							
														231				349				CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).																																							
														232				348				SAND, SILT & CLAY; (Salina Group - Unit F).																																							
														233				347				CLAYSTONE; dark bluish gray; fresh; weak; low hardness; (Salina Group - Unit F). thin dolomite bed @ 232.5-232.8'																																							
														234				346																																											
														235				345																																											
PQ		55		1.0		0.8		0.0		80		0		236				344				LIMESTONE; bluish gray & brown; micritic; fresh; strong; hard; w/white calcite filled vugs; (Salina Group - Unit F).																				Water level @ 24.81' prior to start of drilling on 09/19/07. Core box #19 starts @ 235.5'.																			
														237				343																																											
														238				342				DOLOMITE; grayish brown; micritic; fresh; strong; hard; fossils (ostracodes); (Salina Group - Unit E).																																							
														239				341																																											
														240																												Diamonds stripped from NQ bit @ 240.0'.																			

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

**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' E 4606.0'										GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)										TOTAL DEPTH 240.0 (feet)																																														
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD																																																																					
241										339																																																																		
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254										326																																																																		
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' E 4450.0'										GROUND ELEVATION (DATUM) 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																																																																													
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																					
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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' E 4450.0'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)			
SURFACE CONDITIONS Level, gravel parking area				COORDINATE SYSTEM Plant				DATE START 06/14/07			
DATE FINISHED 06/26/07				LOGGED BY TB for Grainger/Bonnie/Mass				CHECKED BY TB for Dogbey/Bonnie			
APPROVED BY TB for 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	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				DOLOMITE; dark gray; micritic; slightly weathered;	Auger refusal @ 29.5'.

CLIENT						PROJECT						PROJECT NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH	
Monroe, MI				N 6117.0' E 4450.0'				580.5 ft (NAVD 88)				272.0 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Level, gravel parking area						Plant				06/14/07		06/26/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Grainger/Bonnie/Mass				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	
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/4½" 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 4½" 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'.	
			30.5				31		549				
							32		548				
HQ	2	1.5	1.0	0.8	67	53	33		547		90°, J,T,No,No,PI,R @ 33.5-34.3', 38.1-38.3'		
			33.0				34						
HQ	3	1.0	0.8	0.6	80	60	35		546		DOLOMITE; gray; micritic; fresh; strong; hard; banded; w/argillaceous dolomite; (Bass Islands Group). 34.5-		
			34.5				36		545				
			35.5				37		544				
HQ	4	2.5	2.5	1.7	100	68	38		543		0°, J,T,CI,Pa,PI,SR @ 37.5' 70°, J,T,No,No,PI,SR @ 37.5-38.0'		
			36.5				39		542				
			39.0				40		541		90°, J,T,No,No,WA,R @ 38.7-39.0' highly fractured @ 39.0-41.1'		
							41		540				
HQ	5	5.0	4.3	0.5	86	10	42		539		DOLOMITE; light gray; micritic; fresh; strong; hard; mottled; (Bass Islands Group). 41.5-		
							43		538				
							44		537		60°, J,T,No,No,PI,SR @ 42.5-42.7' 0°, J,T,No,No,WA,SR @ 42.7', 41.1' 30°, J,T,No,No,PI,SR @ 43.0-43.3' highly fractured @ 43.5-44.0'		
			44.0				45		536		BRECCIA; cemented; brown; medium to coarse 44.5-		



BLACK & VEATCH

BORING LOG

BORING NO. RB-C7

SHEET 4 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																															
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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6117.0'					E 4450.0'					580.5 ft (NAVD 88)		272.0 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Level, gravel parking area										Plant					06/14/07		06/26/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Bonnie/Mass					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					
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	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' fractured zone 90°,J,R @ 64.0-65.2'									
HQ	10	5.0	4.6	1.6	92	32		65		515		bedding changes to 25° @ 65.3-67.5' 40°,J,VN,No,No,PI,R @ 65.5'									
								66		514											
								67		513		80°,J,T,No,No,St,VR @ 67.5-69.0'									
								68		512											
								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' 70°,J,T,No,No,PI,R										
HQ	11	5.0	4.6	3.7	92	74		71		509											
								72		508											
								73		507											
								74		506											
								75													

**BLACK & VEATCH****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' E 4450.0'										GROUND ELEVATION (DATUM) 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 Granger/TB Bonnie/Mass										CHECKED BY Dogbey/TB Bonnie										APPROVED BY Meyer																																																												
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HQ 12 5.0 5.0 2.4 100 48							75																														Partial drilling fluid return @ 75.0'. Core box #4 starts @ 75.5'.																																																					
							76																																																																																			
HQ 13 5.0 4.9 1.8 98 36							77																														DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; thin bedded; w/argillaceous bands & stylolites; (Bass Islands Group).																																																					
							78																																																																																			
HQ 14 5.0 5.0 4.5 100 90							79																														No drilling fluid return @ 78.5'.																																																					
							80																																																																																			
							81																														0°, B, T, UK, Sp, PI @ 79.4', 79.7', 80.0'; white clay in fracture @ 80.0'																																																					
							82																																																																																			
							83																														80°, J, T, No, No, Ir, VR @ 80.2-81.9'																																																					
							84																																																																																			
							85																														0°, B, T, UK, Sp, PI @ 81.0'																																																					
							86																																																																																			
							87																														0°, B, T, UK, Sp, PI @ 81.8'																																																					
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							90																																																																																			
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							99																														0°, B, T, UK, Pa, PI @ 84.2'																																																					
							100																																																																																			
							101																														anhydrite filled veins @ 84.8-85.2', 87.5-88.3'																																																					
							102																																																																																			
							103																														0°, B, T, UK, Pa, PI @ 85.1'																																																					
							104																																																																																			
							105																														0°, B, MW, No, No @ 85.5'; slightly weathered																																																					
							106																																																																																			
							107																														55°, J, T, UK, Sp, PI @ 87.3'																																																					
							108																																																																																			
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							110																																																																																			
							111																														0°, B, T, UK, Pa, PI @ 88.3', 88.5'																																																					
							112																																																																																			
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							114																																																																																			
							115																														DOLOMITE; crystalline; gray; micritic; very strong;																																																					
							116																																																																																			

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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' E 4450.0'					GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)				
SURFACE CONDITIONS Level, gravel parking area					COORDINATE SYSTEM Plant					DATE START 06/14/07				
										DATE FINISHED 06/26/07				
SAMPLING					LOGGED BY G. G. For TB Grainger/Bonnie/Mass					CHECKED BY S. M. TB Dogbey/Bonnie				
										APPROVED BY 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								
HQ	15	5.0	5.0	4.1	100	82		90		490		hard; massive; (Bass Islands Group).	starts @ 89.8'.	
								91		489		breccia @ 91.4-91.7'		
								92		488		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' 80°, J, T, No, No, PI, R @ 92.5-93.0'	Water level @ 16.5' prior to drilling on 06/20/07.	
								93		487				
			94.0					94		486		0°, B, T, No, No, PI, SR-R @ 94.0', 94.3'		
								95		485		0°, B, T, No, No, PI, SR-R @ 94.9'		
HQ	16	5.0	4.9	2.4	98	48		96		484		0°, B, T, No, No, PI, SR-R @ 95.7', 96.0' 80°, J, T, No, No, PI, R @ 95.7-96.3'		
								97		483		DOLOMITE; crystalline; dark gray; micritic; fresh; very strong; hard; medium bedded w/stylolites; (Bass Islands Group). wavy bedding @ 96.0-97.0' 70°, J, VN, UK, Sp, PI, R @ 97.0-97.3' 0°, B, T, No, No, PI, SR-R @ 97.5', 97.9'		
								98		482				
			99.0					99		481		90°, J, T, No, No, PI, R @ 98.5' 0°, B, T, No, No, PI, SR-R @ 98.5', 98.7' 0°, B, T, No, No, PI, SR-R @ 99.1', 99.5'		
								100		480		80°, J, T, No, No, PI, R @ 99.6-100.7' 0°, B, T, No, No, PI, SR-R @ 100.0', 100.1'		
HQ	17	5.0	4.9	4.0	98	80		101		479		0°, B, T, No, No, PI, SR-R @ 101.2', 101.7'		
								102		478				
								103		477		0°, B, T, No, No, PI, SR-R 102.6', 102.9', 103.1'		
			104.0					104		476			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' 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					
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	18	5.0	4.8	3.1	96	62	105		475		0-5°, B,N,UK,Sp,PI @ 104.9',105.5'									
							106		474		B,MW,R (slightly weathered) @ 106.5',106.7'									
							107		473		70°, J,N,No,No,PI,VR @ 106.8-107.5', 107.9-108.8'									
							108		472		B,N,UK,Sp,PI @ 107.2'									
							109		471		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'									
							110		470		80°, J,T,No,No,PI,R @ 109.2-110.2'									
HQ	19	5.0	5.0	3.5	100	70	111		469											
							112		468		DOLOMITE; dark gray; crystalline; micritic; fresh; very strong; very hard; thick bedded; (Bass Islands Group).									
							113		467		B,VN,UK,Su,PI @ 112.1', 112.8'									
							114		466		fractures in rock filled w/anhydrite @ 112.8-114.5'									
							115		465		B,T,No,No,PI @ 114.6',115.0'									
							116		464		DOLOMITE; argillaceous; gray; very fine grained; fresh; very strong; hard; thin bedded w/thin shale seams; (Salina Group - Unit F).									
HQ	20	5.0	4.8	2.3	96	46	117		463		B,T,No,No,PI @ 115.3',115.6',115.8',116.4', soft clay seam @ 115.6'									
							118		462		B,T,No,No,PI @ 116.7'									
							119		461		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'									
											fractured; slightly weathered @ 119.5-122.0'					Core box #7 starts @ 119.0'.				

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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' E 4450.0'										GROUND ELEVATION (DATUM) 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 800 for TB Grainger/Bonnie/Mass										CHECKED BY m for TB Dogbey/Bonnie										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																																	
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'																											
								124		456		bedding; weathered @ 124.0', 124.3'																											
								125		455		grading shaley w/depth @ 125.0'																											
HQ	22	5.0	2.8	NR	56	NR		126		454				Core barrel trying to block @ 124.5-126.9'.																									
								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'																											
								129		451																													
								130		450																													
								131		449																													
HQ	23	5.0	1.4	0.0	28	0		132		448																													
								133		447																													
								134		446																													
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BLACK & VEATCH

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' 580.5 ft (NAVD 88)					TOTAL DEPTH 272.0 (feet)																																																																																																																																																																							
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HQ	25	2.5	0.5	0.0	20	0																																																																																																																																																																																
HQ	26	2.5	0.0	0.0	0	0																																																																																																																																																																																
HQ	27	3.0	0.7	0.0	23	0																																																																																																																																																																																
HQ	28	2.5	2.1	1.1	84	44																																																																																																																																																																																
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8/22/2008 10:20 AM DTE - Fermi 3 Geotech



BLACK & VEATCH

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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HQ 30 5.0 2.2 0.0 44 0										150															Water trying to block off @ 150.0-154.0'.																																						
										151					CLAY; soft; weathered					151.0					Hard and soft drilling @ 150.0-154.0'.																																						
										152					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).					152.0																																											
										153																																																					
										154																																																					
HQ 31 2.5 1.0 0.0 40 0										154.5					CLAY; gray; very soft					154.5					Water level @ 23.1' prior to drilling on 06/21/07.																																						
										155					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).					155.5																																											
										156																																																					
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HQ 32 2.5 2.4 1.0 96 40										157.0															Hard and soft drilling @ 157.0-158.0'.																																						
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HQ 33 2.5 0.8 0.0 32 0										159.5					CLAY; very soft					159.5					Soft drilling.																																						
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										162					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).					161.5																																											
HQ 34 2.5 0.7 0.0 28 0										162.0																																																					
										163																																																					
										164																																																					
										165																																																					

BLACK & VEATCH

BORING LOG

BORING NO. RB-C7

SHEET 12 OF 19

CLIENT										PROJECT										PROJECT NO.											
Detroit Edison										Fermi 3 COL Application										147483											
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																
Monroe, MI					N 6117.0'					E 4450.0'					580.5 ft (NAVD 88)					272.0 (feet)											
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED											
Level, gravel parking area										Plant					06/14/07					06/26/07											
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY											
										Granger/Bonnie/Mass					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									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																									
HQ	35	2.5	1.0	0.0	40	0		165		415																					
								166		414																					
								167		413																					
HQ	36	2.5	0.4	0.0	16	0		168		412																					
								169		411																					
HQ	37	2.5	0.0	0.0	0	0		170		410																					
								171		409																					
HQ	38	2.5	1.1	0.0	44	0		172		408																					
								173		407																					
								174		406																					
HQ	39	2.5	2.0	0.0	80	0		175		405																					
								176		404																					
								177		403																					
HQ	40	2.5	0.0	0.0	0	0		178		402																					
								179		401																					
								180																							



BLACK & VEATCH

BORING LOG

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SHEET 13 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																														
PROJECT LOCATION Monroe, MI										COORDINATES N 6117.0' E 4450.0'										GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)										TOTAL DEPTH 272.0 (feet)																																																																																																																																																																				
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	193		387																																																																																																																																																																																															
	194		386																																																																																																																																																																																															
	195																																																																																																																																																																																																	

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' 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				
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	47	2.5	1.7	0.6	68	24		195		385		0°, J, No, No, PI, SR @ 196.0', 196.3', 196.8'							
								196		384									
								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		381									
								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		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									
								204		376		LIMESTONE; vuggy; gray; micritic; fresh; very strong; hard; (Salina Group - Unit F). 95°, J, No, No, PI, R @ 204.2-204.4'							
								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'.						
								210				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' 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 Granger/TB Bonnie/Mass										CHECKED BY Dogbey/TB Bonnie										APPROVED BY Meyer																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th>RQD</th> </tr> </table>										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	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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	RQD																																																																																						
HQ 52 5.0 4.8 2.8 96 56								210																														40° J, Ca, Fi, PI, SR @ 209.8'																																																							
								211																														limestone band; vuggy; medium dark gray; micritic; slightly weathered; strong; moderately hard @ 211.2-211.4'																																																							
								212																														0° J, Ca, Fi, PI, SR @ 211.5', 211.7', 211.8'																																																							
								213																														70° J, Ca, Fi, PI, SR @ 211.5-211.9'																																																							
								214																														30° J, Ca, Fi, PI, SR @ 212.2-212.4'																																																							
								215																														stylolites increase @ 213.0-214.0'																																																							
								216																														50° J, Ca, Fi, PI, SR @ 214.0'																																																							
								217																														40° J, Ca, Pa, PI, SR @ 214.0'																																																							
								218																														brecciated band; light brownish gray dolomite @ 215.0-215.1'																																																							
								219																														LIMESTONE; vuggy; light gray; slightly weathered; strong; hard; (Salina Group - Unit F).																																																							
								220																														brecciated @ ~216.5'																																																							
								221																														DOLOMITE; gray; micritic; fresh; strong; hard; w/ ostracodes; (Salina Group - Unit F).																																																							
								222																														90° J, Ca, Pa, PI, SR @ 219.1-219.5'																																																							
								223																														75° J, Ca, Fi, PI, SR @ 219.1-219.5'																																																							
								224																														LIMESTONE; gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F).																																																							
								225																														DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																																							
								226																														50° J, Ca, Fi, PI, SR @ 222.5', 223.1'																																																							
								227																														closely spaced stylolites @ 223.1-223.4'																																																							
								228																														60° J, Ca, Pa, PI, SR @ 223.5'																																																							
								229																														90° J, Ca, Pa, PI, SR @ 223.5-223.7'																																																							
								230																																																																																					
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Core box #11 starts @ 219.5'.

Core barrel blocked @ 223.5'.
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' E 4450.0'										GROUND ELEVATION (DATUM) 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 Granger/TB Bonnie/Mass										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		DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																										
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'.																										
								226		354																													
								227		353																													
								228		352																													
								229		351		DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; w/limey partings; (Salina Group - Unit F).	Core barrel blocking off @ 229.5'.																										
HQ	57	2.5	0.4	0.0	16	0		230		350		CLAYSTONE; dark gray; highly weathered; extremely weak; low hardness (Salina Group - Unit F)																											
								231		349																													
								232		348		DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; w/limey partings; (Salina Group - Unit F).																											
HQ	58	2.5	0.9	0.0	36	0		233		347		60°, J, CI, Pa, PI, SR @ 233.0'																											
								234		346																													
								235		345		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.																										
HQ	59	2.5	1.0	0.0	40	0		236		344			Core loss @ 234.5-236.6'.																										
								237		343		gray dolomite; moderately hard @ 236.6-236.9' 30°, J, CI, FI, PI, SR @ 236.7'																											
								238		342		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'	Core loss @ 237.0-237.2' along stylolites.																										
								239		341																													
								240				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' 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				
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	5.0	4.6	3.7	92	74		240				40°, J, No, No, PI, SR @ 241.1-241.2'		
								241				60°, J, No, No, PI, SR @ 241.1-241.2'		
								242				10°, J, No, No, PI, SR @ 241.1-241.2'		
								243				80°, J, T, UK, FI, PI @ 241.2-241.6'		
								244				0°, J, CI, FI, PI, SR @ 243.5'		
								245				0°, J, No, No, PI, SR @ 243.8', 244.2'		
HQ	62	5.0	5.0	4.5	100	90		246				anhydrite; amorphous; aphanitic; fresh; very weak; low hardness; parting @ 245.4', 245.9'		
								247				0°, J, No, No, PI, SR @ 246.3' (fossil bed), 247.7'		
								248				50°, J, No, No, PI, SR @ 246.7-247.0', 247.5'		
								249				claystone band; very light gray; highly weathered; extremely weak; low hardness; @ 247.5-247.7'	Core box #12 starts @ 247.6'.	
								250				brecciated; closely spaced stylolites; fossil beds; @ 248.0-248.2'		
HQ	63	5.0	4.4	3.5	88	70		251						
								252				0°, J, Ca, Pa, PI, SR @ 252.4'		
								253				30°, J, Ca, Pa, PI, SR @ 252.4'		
								254				90°, J, Ca, Pa, PI, SR @ 252.6-252.9'		
								255				gypsum; amorphous; micritic; fresh; very weak; low hardness; parting or band @ 252.9', 253.2-253.4', 253.5-253.7'		
												DOLOMITE; argillaceous; gray; fissile; platy; micritic to very fine grained; fresh; strong; hard; w/closely spaced anhydrite & gypsum partings, beds, & lenses;	Core loss @ 252.4-252.6'.	

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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' E 4450.0'				GROUND ELEVATION (DATUM) 580.5 ft (NAVD 88)					
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 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
CORING													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD							
HQ	64	5.0	5.0	4.7	100	94		255		325		amorphous; white; few gray; fresh; weak; moderately hard; largest bed 0.4' thick; beds w/convoluted boundaries; (Salina Group - Unit E).	
								256		324			
								257		323		angular fragments @ 257.2-259.3' 0°, J, CI, Fi, PI, S @ 257.2-257.3'	
								258		322			
								259		321		gypsum bed @ 258.9-259.1'	
			259.5					260		320			
								261		319			
HQ	65	5.0	5.0	4.7	100	94		262		318		claystone band; light gray; highly weathered; extremely weak; low hardness @ 261.8-261.9' grades w/no anhydrite & gypsum beds/partings/lenses @ 261.9	Core box #13 starts @ 262.0'.
								263		317		0°, J, Gy, Fi, PI, SR @ 262.8-263.8'	
								264		316		grades w/anhydrite & gypsum beds/partings/lenses @ 264.0'	
			264.5					265		315		0°, J, CI, Pa, PI, SR @ 264.0'	
								266		314		0°, J, Gy, Fi, PI, S @ 265.8'	
								267		313		90°, J, No, No, PI, S @ 265.8-265.9'	
HQ	66	5.0	5.0	4.7	100	94		268		312		GYPSUM/ANHYDRITE; bands & thin beds; white; amorphous; micritic; fresh; weak, hard; convoluted boundaries; soft sediment deformation; (Salina Group - Unit E).	
								269		311		DOLOMITE; argillaceous; gray; fissile; platy; micritic to very fine grained; fresh; strong; hard; w/moderately wide gypsum partings; amorphous; white; few gray; fresh; weak; (Salina Group - Unit E).	
			269.5					270					

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BORING LOG

BORING NO. RB-C7

SHEET 19 OF 19

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6117.0'					E 4450.0'					580.5 ft (NAVD 88)					272.0 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Level, gravel parking area										Plant					06/14/07					06/26/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Granger/TB Bonnie/Mass					Dogbey/TB 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	PERCENT RECOVERY	RQD	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																
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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**BLACK & VEATCH****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' E 4534.4'										GROUND ELEVATION (DATUM) 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 Dodgey/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 RECOVERY		PERCENT RECOVERY		RQD																																					
S		4				15.0						5.0		15				565				<p>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).</p>																				PP = 1.1 TSF							
														16				564																												PP = 2.3 TSF			
														17				563																															
														18				562																															
S		5				20.0						5.0		20				560				<p>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).</p>																				PP = 3.3 TSF							
														21				559																															
														22				558																															
														23				557																															
S		6				25.0						NR		25				555				<p>DOLOMITE; gray; crystalline; micritic; slightly weathered; strong; moderately hard; (Bass Islands Group).</p>																				PP > 4.5 TSF							
														26				554																															
														27				553																															
														28				552																															
						29.5								29				551						<p>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.</p>																									
														30																																			
																								<p>Core box #1 starts @ 29.5'.</p>																									

**BLACK & VEATCH****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' E 4534.4'										GROUND ELEVATION (DATUM) 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													
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		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' 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' 90°, J, T, No, No, PI, SR @ 34.1-36.6' 0°, J, VN, No, No, PI, SR @ 34.4', 34.7', 35.2' grades no shale partings @ 35.5' 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' 90°, J, T, No, No, PI, SR @ 38.0-38.3' 0°, J, VN, No, No, PI, SR @ 38.1', 38.5', 38.8' black shale parting @ 38.1' 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', 39.6-40.2' highly fractured @ 40.2-40.5' 0°, J, VN, No, No, PI, SR @ 40.5', 40.7', 40.8', 41.0' grades 15% vugs @ 40.5' grades mottled gray & dark gray, no vugs @ 40.7' black shale parting @ 41.0' 0°, J, VN, No, No, PI, SR @ 41.9', 42.3' 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' 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'																				Core box #2 starts @ 39.7'. No drilling fluid return @ 40.5'	
												31				549																											
														32				548																									
														33				547																									
PQ		2		5.0		5.0		4.4		100		88		34				546																									
														35				545																									
														36				544																									
														37				543																									
PQ		3		5.0		5.0		1.8		100		36		38				542																									
														39				541																									
														40				540																									
														41				539																									
														42				538																									
														43				537																									
PQ		4		5.0		5.0		1.7		100		34		44				536																									
														45																													

**BLACK & VEATCH****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' E 4534.4'										GROUND ELEVATION (DATUM) 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																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	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																																											
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																														
																				<p>highly fractured; partially cemented @ 44.8-45.5'</p> <p>5°, J, VN, CI, Pa, PI, SR @ 45.7', 46.0'</p> <p>75°, J, T, No, No, PI, SR @ 45.7-46.0'</p> <p>breccia zone, cemented @ 46.5-46.8'</p> <p>calcite vein (0.05' thick) @ 46.5'</p> <p>grades gray, no vugs @ 46.8'</p> <p>highly fractured @ 46.9-47.0'</p> <p>grades 20% vugs @ 47.3'</p> <p>14°, J, VN, No, No, WA, SR @ 47.5', 48.2'</p> <p>90°, J, T, No, No, PI, SR @ 48.2-49.2', 50.4-50.9'</p> <p><u>DOLOMITE</u>; gray; slightly weathered; strong; moderately hard; banded; (Bass Islands Group).</p> <p>highly fractured @ 48.4-48.5'</p> <p>30°, J, T, No, No, PI, SR @ 48.9-49.2'</p> <p>0°, J, VN, No, No, PI, SR @ 49.8', 50.2', 50.9'</p> <p>90°, J, T, No, No, PI, SR @ 51.4-51.7'</p> <p>65°, J, T, No, No, PI, SR @ 52.3-52.6', 52.8-53.3'</p> <p>25°, J, T, No, No, PI, SR @ 52.5'</p> <p>90°, J, T, No, No, PI, SR @ 52.9-54.0'</p> <p>40°, J, T, No, No, PI, SR @ 54.1-54.3'</p> <p>20°, J, T, No, No, PI, SR @ 54.3'</p> <p>0°, J, VN, No, No, PI, SR @ 54.4', 54.6'</p> <p>90°, J, T, No, No, PI, SR @ 54.4-54.7'</p> <p><u>DOLOMITE</u>; argillaceous; dark gray; micritic; fresh; weak; low hardness; bedding < 1/4"; (Bass Islands Group).</p> <p><u>DOLOMITE</u>; mottled dark gray & gray; micritic; strong; moderately hard; (Bass Islands Group).</p> <p><u>DOLOMITE</u>; oolitic; brownish gray; very fine grained; strong; moderately hard; banded; (Bass Islands Group).</p> <p>0°, J, VN, No, No, PI, SR @ 54.9', 57.7', 57.8'</p> <p>90°, J, T, No, No, PI, SR @ 54.9-55.2', 55.4-55.6', 55.6-56.4', 56.4-56.9'</p> <p>80°, J, VN, No, No, PI, SR @ 57.0-58.0'</p> <p><u>DOLOMITE</u>; brecciated; indurated; gray; very fine grained; fresh; strong; moderately hard; banded; (Bass Islands Group).</p>										<p>Core box #3 starts @ 48.7'. Vibrations in drill stem @ 49.0'.</p> <p>Water level @ 8.4' prior to drilling on 06/15/07.</p> <p>Loosing drilling fluid @ 55.5'.</p> <p>Core box #4 starts @ 57.8'.</p>																					
PQ 5 5.0 4.8 4.2 96 84										45 535																																									
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CLIENT										PROJECT										SHEET # OF 3																			
Detroit Edison										Fermi 3 COL Application										PROJECT NO. 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					Dogbey/Ohlmacher					Meyer																			
CORING										DEPTH (FEET)					SAMPLE TYPE					ELEVATION (FEET)					GRAPHIC LOG					CLASSIFICATION OF MATERIALS					REMARKS				
SAMPLE TYPE		SAMPLE NUMBER		SET INCHES		2ND INCHES		3RD INCHES		N VALUE		SAMPLE RECOVERY		CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD		PERCENT RECOVERY		RQD													
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**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C8

SHEET 7 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6110.9' E 4534.4'										GROUND ELEVATION (DATUM) 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																																																											
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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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5/28/2008 9:44 AM DTE - Fermi 3 Geotech

**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' E 4534.4'					GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)				
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				
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								
							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'			
PQ	17	5.0	5.0	4.2	100	84	107		473		grades 5% vugs @ 107.3'			
							108		472		50° J,T,No,No,PI,SR @ 107.3-107.5', 107.4-107.6',			
							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'			
							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'			
PQ	18	5.0	4.0	0.0	80	0	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).			
							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'			
							117		463		highly fractured @ 116.7-118.2'			
											DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; moderately hard; banded; (Salina Group - Unit F).			
							118		462		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				SHALE; dolomitic; interbedded w/DOLOMITE;			

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		TOTAL DEPTH	
Monroe, MI		N 6110.9' E 4534.4'		471.5 (feet)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE FINISHED	
Gravel parking lot near field		Plant		06/28/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Ohlmacher		Meyer	
SAMPLING		CHECKED BY			
		Dogbey/Ohlmacher			
CORING		CLASSIFICATION OF MATERIALS		REMARKS	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		
120		460			
121		459			
122		458			
123		457			
124	PQ	456			
125		455			
126		454			
127		453			
128		452			
129	PQ	451			
130		450			
131		449			
132		448			
133		447			
134	PQ	446			
135					

**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>GO</i>		CHECKED BY Dogbey/Ohlmacher <i>GO</i>		APPROVED BY Meyer <i>EM</i>				
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							135		445		DOLOMITE; argillaceous; gray; micritic; fresh (upper 0.2' moderately weathered); strong; moderately hard; banded; (Salina Group - Unit F). highly fractured @ 135.3-135.6'	
							136		444		0°, J, VN, No, No, PI, SR @ 135.6', 135.7', 136.0'	
							137		443		90°, J, T, No, No, PI, SR @ 135.8-136.4', 137.1-137.4' highly fractured @ 136.7-138.1'	
							138		442		SHALE; dolomitic; greenish gray; fresh; weak; friable; crumbly; (Salina Group - Unit F).	Core loss possibly due to washout.
PQ	23	5.0	3.0	0.0	60	0	139		441			
							140		440			
							141		439			
							142		438		highly fractured @ 141.7-142.0'	
							143		437		90°, J, VN, No, No, PI, SR @ 142.0-142.4'	
							144		436		0°, J, VN, No, No, PI, SR @ 142.0'	
PQ	24	5.0	4.5	1.7	90	34	145		435		highly fractured shale, VC @ 143.0-144.5'	
							146		434		0°, J, VN, No, No, PI, SR @ 144.7', 145.1', 145.4', 145.7', 145.9'	Core box #13 starts @ 144.4'.
							147		433		70°, J, VN, No, No, PI, SR @ 145.4-145.6'	
							148		432		thin parting; anhydrite w/shale @ 145.4-145.6'	
							149		431		highly fractured shale @ 145.7-145.9'	
PQ	25	5.0	3.5	1.3	70	26	150				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'	

**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' E 4534.4'										GROUND ELEVATION (DATUM) 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 GLO										CHECKED BY Dogbey/Ohlmacher GLO										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		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS							
PQ		26		5.0		3.3		0.9		66		18		150				430				highly fractured @ 148.6-149.4'																				Water level @ 14.9' prior to drilling on 06/17/07.							
														151				429				argillaceous dolomite band @ 151.0-151.1' highly fractured @ 151.1-151.7'																											
														152				428				bluish gray dolomite band; highly fractured @ 152.0-152.2'																											
																								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'																				Core box #14 starts @ 156.7'.					
																								40°, J, VN, No, No, PI, SR @ 155.1-155.3' 90°, J, VN, No, No, PI, SR @ 155.7-156.0',																									
																								dark bluish gray; argillaceous dolomite band @ 157.1-157.2'																									
																										dark bluish gray; thin argillaceous dolomite bed @ 157.8-158.2' 90°, J, VN, No, No, PI, SR @ 157.8-158.2'																							
																										dark bluish gray; argillaceous dolomite band @ 159.1-159.2'																							
																										dark bluish gray; argillaceous dolomite band @ 160.0-160.2' highly fractured @ 160.0-161.2'																							
																												argillaceous dolomite band @ 161.0-161.2'																					
																												dark bluish gray dolomite band @ 161.7-161.8'																					
																												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'																					
																												SHALE; dolomitic; greenish gray; fresh; weak; friable;																					

CLIENT										PROJECT										PROJECT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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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		PERCENT RECOVERY		RQD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

**BLACK & VEATCH****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' E 4534.4'					GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)				
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				
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								
							180		400		fractured @ 179.5-179.7'	Driller reported a water level drop.		
							181		399					
			181.7				182		398		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		397		<u>BRECCIA</u> ; 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		396		0° J,VN,No,No,PI,SR @ 183.6', 183.7', 185.7'			
							185		395		highly fractured @ 184.2-185.2'			
							186		394		20° J,VN,No,No,PI,SR @ 185.3-185.4'			
							187		393		65° J,VN,No,No,PI,SR @ 185.5-186.2'			
			186.7				188		392		brown; thin argillaceous limestone bed; vuggy @ 186.3-186.7'			
							189		391		30° J,VN,No,No,PI,SR @ 186.3-186.5'			
PQ	33	5.0	4.0	1.0	80	20	190		390		90° J,VN,No,No,PI,SR @ 186.5-186.7'			
							191		389		0° J,VN,No,No,PI,SR @ 186.5', 187.1'			
							192		388		30° J,VN,No,No,PI,SR @ 187.2-187.4'			
							193		387		highly fractured @ 187.3-188.1'			
							194		386		40° J,VN,No,No,PI,R @ 187.8-188.1'			
							195				0° J,VN,No,No,PI,SR @ 188.3'			
											20° J,VN,No,No,PI,SR @ 188.7-188.5', 189.7-189.9'			
											0° J,VN,No,No,PI,SR @ 189.0'			
											20° J,VN,No,No,PI,SR @ 189.7-189.9'			
											70° J,VN,No,No,PI,R @ 189.7-190.1'			
											highly fractured @ 190.0-190.2'			
											0° J,VN,No,No,PI,SR @ 190.3'			
											clay filled void @ 190.3-190.6'			
											30° J,VN,No,No,PI,SR @ 190.4-190.5'	Core box #16 starts @ 191.1'.		
			191.7				192		388		<u>DOLOMITE</u> ; argillaceous; brown; banded; 5% vugs; (Salina Group - Unit F).			
							193		387		0° J,T,No,No,PI,S @ 190.9'			
							194		386		0° J,VN,No,No,PI,SR @ 191.1'			
PQ	34	5.0	3.2	0.0	64	0					<u>BRECCIA</u> ; 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).			
											LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).			

**BLACK & VEATCH****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 GCO		CHECKED BY Dogbey/Ohlmacher GCO		APPROVED BY Meyer EM	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
							195		bluish gray; thin argillaceous dolomite bed; micritic @ 193.5-193.8'
							196		90°, J, VN, No, No, PI, SR @ 193.5-193.8'
									highly fractured @ 193.8-196.0'
			196.7				197		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'
							198		LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).
									DOLOMITE; argillaceous; dark bluish gray; banded; (Salina Group - Unit F).
							199		90°, J, T, No, No, PI, SR @ 197.1-197.6'
PQ	35	5.0	2.7	0.6	54	12	200		highly fractured @ 197.1-197.6'
									LIMESTONE; brown; vuggy; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).
							201		SHALE; dark bluish gray; fresh; very weak; friable; banded w/dolomite beds; (Salina Group - Unit F).
									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).
			201.7				202		60°, VN, No, No, PI, R @ 199.3-199.7'
									SHALE; limey; dark bluish gray; fresh; very weak; friable; (Salina Group - Unit F).
							203		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		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'
							205		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'
							206		90°, J, N, Ca, Pa, WA, R @ 205.3-206.2'
			206.7				207		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'
							208		0°, J, VN, No, No, PI, R @ 207.2', 207.4', 208.1', 208.9', 209.2', 209.5'
									20°, J, VN, No, No, PI, R @ 207.4'
							209		90°, J, VN, No, No, PI, R @ 207.5-207.9', 209.0-209.1'
PQ	37	5.0	4.2	0.85	84	17			15°, J, VN, No, No, PI, R @ 207.7'
									LIMESTONE; dark greenish gray; vuggy; banded; (Salina Group - Unit F).
							210		

Water level @ 22.5' prior to drilling on 06/18/07.

Core box #17 starts @ 204.2'.

**BLACK & VEATCH****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)		DATE FINISHED 06/28/07	
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			
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	REMARKS
							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).
							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		
							219		361		LIMESTONE; gray; vuggy; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F). highly fractured @ 215.3-215.8'
							220		360		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'
							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		
							223		357		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'
PQ	40	5.0	1.5	0.0	30	0	224		356		60° J,T,No,No,PI,SR @ 224.1-224.6'
							225				

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

Core box #18 starts @ 214.8'.

Core loss @ 222.0'.



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

**BLACK & VEATCH****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' 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 GEO Ohlmacher		CHECKED BY GEO 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	ROD RECOVERY	PERCENT RECOVERY	RQD							
							255		325		interbedded bluish gray shale & argillaceous dolomite; shale layers up to 0.05' thick (banded) @ 254.9-255.2' 0°,B,VN,No,No,PI,SR @ 255.2',257.0' 0°,V,VN,anhydrite,Fi,PI,SR @ 255.3', 255.4', 255.9', 256.0' anhydrite veins increasing w/depth; dolomite grades banded @ 255.4' 0°,B,N,anhydrite,Fi,PI,SR @ 255.5', 256.1', 256.2' 0°,V,N,anhydrite,Fi,PI,SR @ 256.15' highly fractured, VC, veins; anhydrite; over 50% veins; up to narrow aperture @ 256.3-257.0' anhydrite vein spacing decreasing @ 257.0' thin anhydrite bed @ 257.8-258.2' 0°,J,VN,No,No,PI,R @ 257.8',259.0' grades light brown @ 258.2' band of anhydrite @ 258.3-258.4' grades 20% anhydrite nodules; moderately wide spaced anhydrite-filled veins; VN @ 258.5' grades no anhydrite nodules; no anhydrite veins @ 259.6' 0°,J,VN,No,No,PI,R @ 260.0',260.7' grades grayish brown; massive @ 260.0' 0°,J,VN,anhydrite,Pa,PI,R @ 260.3', 260.8' grades very dark bluish gray @ 260.9' 0°,B,VN,No,No,PI,SR @ 261.1',261.4'		
PQ	47	5.0	4.9	3.8	98	76	256		324				
			256.7				257		323				
							258		322				
							259		321			Core box #22 starts @ 258.9'.	
							260		320				
							261		319				
			261.7				262		318				
							263		317				
PQ	48	5.0	5.0	5.0	100	100	264		316		grades alternating light brown; banded w/anhydrite bands up to 1/2" thick & anhydrite veins @ 262.5' 0°,B,VN,anhydrite,Pa,PI,SR @ 262.6' grades no anhydrite @ 263.1' 0°,B,T,No,No,PI,S @ 263.2', 264.6' anhydrite veins, VN,PI,SR @ 263.4' thin anhydrite bed w/argillaceous dolomite @ 263.8-264.1' 0°,J,VN,No,No,PI,R @ 264.0', 265.7'		
							265		315				
							266		314		ANHYDRITE; white to light gray; micritic; fresh; strong; low hardness; banded; w/argillaceous dolomite beds; (Salina Group - Unit E).	Water level @ 22.6' prior to drilling on 06/20/07.	
			266.7				267		313		0°,J,N,No,No,PI,R @ 267.1'		
							268		312		DOLOMITE; argillaceous; banded light brownish gray & gray; micritic; fresh; strong; hard; massive; fossils (<1%); (Salina Group - Unit E). 20°,V,N,anhydrite,Fi,WA,S @ 267.3' 0°,V,N,anhydrite,Fi,PI,SR @ 268.0' grades banded light brownish gray & brown @ 268.1' 0°,B,T,No,No,PI,S @ 268.8' grades gray & black; w/black shale partings every 0.1-0.2' @ 268.8'		
PQ	49	5.0	5.0	4.7	100	94	269		311			Core box #23 starts @ 268.8'.	
							270						



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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	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
									REMARKS
							270		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		
									0° V,N,anhydrite,Fi,PI,S @ 271.6'
			271.7				272		light brownish gray; w/anhydrite veins @ 272.0-272.2'
									25° J,T,anhydrite,Sp,St,SR @ 272.2-272.3'
							273		
									0° V,N,anhydrite,Fi,PI,S @ 273.1', 274.4'
									10° V,MW,anhydrite,Fi,PI,SR @ 273.3'
PQ	50	5.0	5.0	4.5	100	90	274		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		
									10° V,N,anhydrite,Fi,PI,SR @ 275.4'
									light brownish gray; w/anhydrite beds; nodules; veins @ 275.6-278.2'
							276		0° J,VN,No,No,WA,R @ 275.8', 276.4'
			276.7				277		0° J,N,anhydrite,Sp,PI,R @ 277.1'
							278		0° V,N,anhydrite,Fi,PI,S @ 278.1'
PQ	51	5.0	5.0	5.0	100	100	279		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'
							280		0° V,VN,anhydrite,Fi,WA,S @ 279.5'
							281		black dolomitic shale band @ 281.0-281.2'
									0° V,MW,anhydrite,Fi,PI,S @ 281.1'
							282		light brownish gray; w/anhydrite nodules @ 281.2-285.0'
			281.7						0° V,VN,anhydrite,Fi,PI,SR @ 281.7', 282.3'
							283		0° J,VN,anhydrite,Sp,PI,R @ 282.8'
									thin anhydrite bed @ 283.1-283.5'
							284		
PQ	52	5.0	5.0	4.6	100	92			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		



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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		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
								GRAPHIC LOG	CLASSIFICATION OF MATERIALS
							285		grades light gray @ 285.0'
									0° B,T,No,No,PI,SR @ 285.0'
									0° J,T,No,No,PI,SR @ 285.2'
							286		grades no fossils @ 285.6'
									0° B,T,No,No,PI,R @ 285.7'
			286.7						DOLOMITE; crystalline; light gray; micritic; fresh;
							287		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		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'
PQ	53	5.0	4.9	4.9	98	98	289		0° J,T,No,No,St,SR @ 288.6'
									0° J,T,No,No,St,SR @ 289.3',289.8'
							290		
									0° B,VN,No,No,PI,SR @ 290.7'
							291		65° J,VN,anhydrite,Sp,PI,SR; healed @ 290.7-291.3'
			291.7				292		0° B,VN,No,No,PI,SR @ 292.3'
							293		0° J,VN,No,No,WA,SR @ 292.9', 297.1', 298.7'
									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		90° J,T,No,No,PI,SR @ 294.0-294.1'
									80° J,T,UK, Sp,PI,SR; healed @ 294.3-295.0'
							295		
									10° J,N,No,No,PI,SR @ 295.4', 295.6'
							296		
			296.7				297		
							298		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-
PQ	55	5.0	5.0	4.8	100	96	299		299.8'
									15° J,VN,No,No,PI,SR @ 298.6'
							300		

Core box #25 starts @ 286.7'.

Core box #26 starts @ 296.7'.

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					Dogbey/Ohlmacher					Meyer									

CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH	
Detroit Edison		Monroe, MI		N 6110.9'		E 4534.4'		580.4 ft (NAVD 88)	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH		DATE FINISHED	
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		Dogbey/Ohlmacher		Meyer			
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	
PERCENT RECOVERY		RQD							
DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS	
REMARKS									
315				265				0°,J,VN,No,No,WA,SR @ 315.1'	
								0°,B,VN,No,No,PI,SR @ 315.2',315.8'	
316				264					
317				263				Water level @ 21.8' prior to drilling on 06/21/07.	
								DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit E).	
318				262				black shale partings @ 318.1-318.3'	
								0°,B,VN,No,No,PI,SR @ 318.2'	
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).	
								5°,J,VN,No,No,PI,SR @ 318.5'	
320				260				thin dolomite bed @ 319.5-319.8'	
								highly fractured @ 319.7-319.8'	
321				259				dolomite band @ 320.4-320.6'	
								10°,J,VN,No,No,St,SR @ 320.7'	
322				258				0°,J,VN,anhydrite,Pa,WA,SR @ 320.9'	
								DOLOMITE; gray; (Salina Group - Unit E).	
323				257				highly fractured @ 321.8-321.9'	
								0°,B,VN,No,No,PI,SR @ 322.1'	
324				256				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).	
								10°,J,T,No,No,PI,SR @ 323.0'	
325				255				0°,J,VN,No,No,PI,SR @ 323.8', 324.6', 329.2', 329.7', 329.8'	
								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'	
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).	
								grading dark gray @ 327.0'	
329				251				0°,B,VN,No,No,PI,SR @ 327.0',328.4'	
								intermingled w/anhydrite bands @ 328.9-329.1'	
330								ANHYDRITE; white to light bluish gray; crystalline;	

[illegible]

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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	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	CLASSIFICATION OF MATERIALS		REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	GRAPHIC LOG		
CORING							DEPTH (FEET)		
							SAMPLE TYPE		
							ELEVATION (FEET)		
							GRAPHIC LOG		
PQ	65	5.0	5.0	4.7	100	94	<p>345.0 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'</p> <p>348.9 anhydrite band; white to weak red @ 348.7-348.8' 0°, J, N, No, No, PI, R @ 348.7'</p> <p>349.5 ANHYDRITE; white to weak red; intermingled w/ dolomite</p> <p>350.0 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'</p> <p>352.0 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'</p> <p>352.0 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'</p> <p>354.5 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'</p> <p>356.7 DOLOMITE; gray; crystalline; micritic; fresh; strong; hard; banded w/very dark gray argillaceous dolomite; (Salina Group - Unit C).</p> <p>357.6 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'</p>		<p>Core box #32 starts @ 351.1'.</p>
PQ	66	5.0	5.0	5.0	100	100			
PQ	67	5.0	5.0	4.9	100	98			

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BORING LOG

BORING NO. RB-C8

SHEET 25 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					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	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).																	
								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' 10°, V, MW, anhydrite, Fi, PI, SR; healed @ 360.3-360.4'																	
PQ	68	5.0	5.0	4.9	100	98		364		216		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C). 0°, J, VN, No, No, St, SR @ 362.5-362.6'																	
								365		215		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; w/anhydrite bands; (Salina Group - Unit C). 10°, J, VN, No, No, PI, SR @ 363.3', 364.8' anhydrite nodules @ 363.6-363.7', 363.8-364.4'																	
								367		213		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; very dark greenish gray; (Salina Group - Unit C). 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'																	
PQ	69	5.0	5.0	5.0	100	100		369		211		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C). thin reddish gray dolomite bed @ 365.5-365.8' reddish gray dolomite band @ 366.0-366.2'																	
								370		210		40°, V, N, anhydrite, Fi, PI, SR; healed @ 366.3-366.4' ANHYDRITE; intermingled w/dolomite; (Salina Group - Unit C). 0°, J, VN, No, No, PI, SR @ 366.8'	Core box #34 starts @ 369.8'.																
								371		209		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C). 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'																	
								372		208		DOLOMITE; reddish gray; crystalline; micritic; fresh; strong; hard; banded w/argillaceous dolomite; dark greenish gray & anhydrite beds; (Salina Group - Unit C).																	
								373		207																			
PQ	70	5.0	5.0	4.8	100	96		374		206		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; massive; (Salina Group - Unit C).																	
								375				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		CHECKED BY Dogbey/Ohlmacher		APPROVED BY Meyer		
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
PQ	71	5.0	5.0	5.0	100	100	375		205		crystalline; dark greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit C). 10° J,N,anhydrite,Fi,PI,R @ 369.7' 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'	Core box #35 starts @ 378.6'.
							376		204		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'	
							377		203		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'	
							378		202		DOLOMITE; grayish brown; crystalline; micritic; fresh; strong; hard; banded w/anhydrite; white to weak red; (Salina Group - Unit C).	
							379		201		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'	Water level @ 22.1' prior to drilling on 06/26/07.
							380		200		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'	
							381		199		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'	
							382		198		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'	
							383		197		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'	Core box #36 starts @ 388.0'.
							384		196		anhydrite band @ 386.9-387.1' 90° J,T,No,No,PI,SR @ 387.1-387.5', 389.1-389.7'	
							385		195		DOLOMITE; pale brown; crystalline; micritic; fresh; strong; moderately hard; banded w/anhydrite; white to very dark gray; (Salina Group - Unit C).	
							386		194			
							387		193			
							388		192			
							389		191			
							390					

CLIENT		PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Detroit Edison		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		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	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'	
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'	Core box #37 starts @ 397.8'.
							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					

**BLACK & VEATCH****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> Dogbey/Ohlmacher		APPROVED BY <i>Em</i> Meyer	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
							GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
							405		
							175		
							406		
							174		
			406.7				407		
							173		
							408		
							172		
PQ	77	5.0	5.0	4.9	100	98	409		
							171		
							410		
							170		
							411		
							169		
			411.7				412		
							168		
							413		
							167		
PQ	78	5.0	5.0	5.0	100	100	414		
							166		
							415		
							165		
							416		
							164		
			416.7				417		
							163		
							418		
							162		
PQ	79	5.0	5.0	5.0	100	100	419		
							161		
							420		

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

Core box #38 starts @ 406.4'.

Core box #39 starts @ 415.2'.

CLIENT										PROJECT										SHEET 29 OF 30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	



BLACK & VEATCH

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>GOO</i>		CHECKED BY <i>GOO</i> Dogbey/Ohlmacher		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
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).	
							436		144		0°, J, VN, No, No, PI, SR @ 435.5', 436.3'	
			436.7				437		143		DOLOMITE; dark greenish gray to very dark gray mottled; crystalline; micritic; fresh; strong; hard; (Salina Group - Unit B). anhydrite nodules @ 437.2-437.8'	
							438		142		DOLOMITE; banded dark greenish gray to very dark gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B).	
							439		141		0°, V, MW, anhydrite, Fi, PI, SR; healed @ 438.0' anhydrite nodules @ 438.3-438.5'	
							440		140		0°, V, N, anhydrite, Fi, WA, SR; healed @ 438.4', 438.6', 439.3'	
							441		139		anhydrite band @ 438.9-439.1' contorted bedding @ 439.1-439.5' anhydrite nodules @ 439.2-439.5' anhydrite band @ 439.5-439.6'	
							442		138		0°, J, VN, No, No, PI, SR @ 439.7' anhydrite nodules @ 439.9-440.3'	
			441.7				443		137		15°, J, VN, No, No, PI, SR @ 440.2'	
							444		136		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'.
							445		135		DOLOMITE; dark greenish gray; crystalline; micritic; fresh; strong; hard; banded; w/greenish gray shale partings; (Salina Group - Unit B).	
							446		134		contorted bedding @ 442.0-442.6' anhydrite nodule; 3" in length @ 442.2-442.4'	
							447		133		0°, J, VN, No, No, PI, SR @ 443.1' anhydrite band @ 443.2-443.3'	
							448		132		DOLOMITE; banded brown to light brownish gray; crystalline; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit B).	
			446.7				449		131		0°, J, VN, No, No, PI, SR @ 444.1', 446.2' anhydrite nodules @ 444.6-444.8' intermingled anhydrite & dolomite @ 444.9-445.2'	
							450				bands up to 3.5" thick; anhydrite; brown; & crystalline dolomite; brown @ 446.5-447.2'	
											grades light brownish gray @ 447.2'	
											0°, B, VN, No, No, PI, S @ 447.6', 448.4', 449.0', 449.9'	
											stylolites @ 449.5-449.6'	

**BLACK & VEATCH****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' E 4534.4'										GROUND ELEVATION (DATUM) 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> Dogbey/Ohlmacher										APPROVED BY <i>Geo</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																																
PQ	86	5.0	5.0	4.7	100	94		450		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		129																													
								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'																											
								453		127																													
								454		126																													
								455		125		0°, B, VN, No, No, PI, SR @ 454.8'																											
								456		124		0°, B, VN, No, No, PI, SR @ 455.6'																											
								457		123		anhydrite bands 0.3" thick interbedded w/brown dolomite @ 456.3-456.8' 10°, J, VN, No, No, WA, SR @ 456.6'																											
								458		122		0°, B, VN, No, No, PI, SR @ 457.7'																											
PQ	87	5.0	5.0	4.5	100	90		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'																											
								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). anhydrite; intermingled w/brown dolomite @ 462.4-462.6' 0°, J, VN, No, No, PI, SR @ 462.7'																											
PQ	88	5.0	5.0	4.6	100	92		464		116																													
								465				DOLOMITE; banded dark brown, brown & gray;																											

**BLACK & VEATCH****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									
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	89	5.0	4.8	4.8	96	96	465		115		crystalline; micritic; fresh; strong; hard; w/anhydrite bands; (Salina Group - Unit B). 0°, J, VN, anhydrite, Pa, PI, 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, PI, 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, PI, SR @ 466.3'																												
							469		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																														
							473		107																														
							474		106																														
							475		105																														
							476		104																														
							477		103																														
							478		102																														
							479		101																														
							480																																



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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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>CCB</i> Grainger/Bonnie ^{TB}										CHECKED BY <i>MB</i> Dogbey/Bonnie ^{TB}										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	
S		1		3.0								1.5		0								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).																				Boring advanced w/vacuum excavation.	
S		1A		5.0								0		5																												Below 3.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler. Discrete sample collected from S1.	
S		2		10.0								2.0		10																												Discrete sample collected from S2 @ 14.7-15.0'.	
														15																													



BLACK & VEATCH

BORING LOG

BORING NO. RB-C9

SHEET 2 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)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										APPROVED BY Meyer																																																																																																																			
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<p>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).</p>										<p>Set nominal 6" temporary steel casing to 15.5'. Hole opened to 16.0'. Below 16.0' continued w/NWJ rods & tricone bit using bentonite mud as drilling fluid. SPT performed w/D-50 automatic hammer.</p>																																																																																																																																							
<p>Lean CLAY (CL) - About 96% LL=47, PL=20, no dilatancy, high dry strength fines; about 4% fine to medium sand; trace fine, rounded to subangular, hard gravel w/max. size 1/2"; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</p>										<p>Lean CLAY (CL) - About 96% LL=47, PL=20, no dilatancy, high dry strength fines; about 4% fine to medium sand; trace fine, rounded to subangular, hard gravel w/max. size 1/2"; dark grayish brown; hard; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</p>																																																																																																																																							
<p>Clayey GRAVEL with Sand (GC) - About 42% LL=42, PL=20, slow dilatancy, high dry strength fines; About 32% fine, subangular, hard gravel w/max. size about 26% fine to coarse, subrounded to angular, hard sand; dark gray; medium dense; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</p>										<p>Clayey GRAVEL with Sand (GC) - About 42% LL=42, PL=20, slow dilatancy, high dry strength fines; About 32% fine, subangular, hard gravel w/max. size about 26% fine to coarse, subrounded to angular, hard sand; dark gray; medium dense; moist; strong reaction w/HCl; homogeneous; (Glacial Till).</p>																																																																																																																																							
<p>grading w/gabbro cobbles</p>										<p>Gabbro cobble recovered as sluff & stored in S-6.</p>																																																																																																																																							
<p>DOLOMITE; crystalline; micritic; slightly weathered; very strong; very hard; (Bass Islands Group).</p>										<p>Top of rock @ 28.0'. Below 28.0' continued w/4" ID sonic continuous sampler w/ nominal 6"</p>																																																																																																																																							

**BLACK & VEATCH****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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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 Grainger/Bonnie TB										CHECKED BY Dogbey/Bonnie TB										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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
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																									
						33.5								34				547				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'																				Set nominal 6" temporary steel casing @ 33.6'. Water level @ 22.6' prior to drilling on 07/11/07. Core box #1 starts @ 33.6'.	
HQ		2		5.0		5.0		1.5		100		30		35				546																									
						35.5								36				545																									
														37				544																									
HQ		3		5.0		5.0		3.0		100		60		38				543				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'																					
														39				542				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'																					
														40				541																									
						40.5								41				540				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'																					
HQ		3		5.0		5.0		3.0		100		60		42				539																									
														43				538																									
														44				537																									
														45				536																									

BLACK & VEATCH

BORING LOG

BORING NO. RB-C9

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 6112.4'			E 4616.0'			580.9 ft (NAVD 88) 270.5 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED	
Gravel parking lot near laydown area						Plant		06/14/07		07/15/07	
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY	
						Grainger/Bonnie TB		Dogbey/Bonnie TB		Meyer EM	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG
HQ	4	5.0	5.0	4.25	100	85		45			
			45.5					46	535		
								47	534		
								48	533		
								49	532		
								50	531		
			50.5					51	530		
								52	529		
HQ	5	5.0	5.0	3.3	100	66		53	528		
								54	527		
								55	526		
			55.5					56	525		
								57	524		
HQ	6	5.0	5.0	2.35	100	47		58	523		
								59	522		
								60	521		
							10°, J,T,No,No,PI,R @ 45.5', 45.6' 0°, J,T,No,No,PI,SR @ 46.0'				
							DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°, J,T,No,No,PI,SR @ 47.0' 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'				
							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'				
							0°, J,T,No,No,PI,SR @ 50.1', 50.2', 50.4'				
							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'				
							DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Island Group). 30°, J,T,No,No,WA,R @ 52.9'				
							DOLOMITE; gray & dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group). shale; thin bedded @ 53.2'				
							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'				
							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' 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'				
							0°, J,T,No,No,PI,SR @ 58.9', 59.7', 59.9'				
							0.02' thick black shale parting @ 59.4'				

BLACK & VEATCH

BORING LOG

BORING NO. RB-C9

SHEET 5 OF 19

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH			
Monroe, MI			N 6112.4'			E 4616.0'			580.9 ft (NAVD 88) 270.5 (feet)			
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Gravel parking lot near laydown area						Plant		06/14/07		07/15/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Grainger/Bonnie TB		Dodbey/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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
							60				DOLOMITE; dark gray; micritic; fresh; strong; hard; w/shale partings & stylolites; (Bass Islands Group).	Core box #3 starts @ 60.3'.
HQ	7	0.3	60.5 0.3 60.8	0.0	100	0						
							61		520		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'	No drilling fluid return @ 63.0'.
							62		519			
HQ	8	4.7	4.7	2.4	100	51	63		518		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'	
							64		517		0°, J, VN, No, No, PI, SR @ 64.1', 64.5', 64.6', 65.1'	
							65		516			Water level @ 20.3' prior to drilling on 07/12/07.
			65.5				66		515		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' 0°, J, VN, No, No, PI, SR @ 67.0', 67.3' 60°, J, VN, No, No, WA, SR @ 67.15-67.25'	
							67		514			
HQ	9	5.0	5.0	4.3	100	86	68		513		0°, J, VN, No, No, WA, SR @ 68.4'	
							69		512			
							70		511		0°, J, N, UK, Pa, R @ 69.6'	
							71		510			
			70.5				72		509		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		508			Core box #4 starts @ 73.7'.
							74		507		0°, J, VN, No, No, PI, SR @ 73.7'	
							75		506			



BLACK & VEATCH

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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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 Grainger/Bonnie ^{TB}										CHECKED BY Dogbey/Bonnie ^{TB}										APPROVED BY Meyer ^{EM}																																																																																																			
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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										ROD RECOVERY										PERCENT RECOVERY										ROD																																																											
HQ										11										5.0										5.0										4.6										100										92										75										505										0°, J, VN, No, No, PI, SR @ 75.2', 75.4'										90°, J, T, No, No, PI, SR @ 75.2-75.4'																													
HQ										12										5.0										5.0										2.0										100										40										76										504										0°, J, VN, No, No, PI, SR @ 76.5', 77.8', 78.2'																																							
HQ										13										5.0										5.0										2.9										100										58										77										503										0°, J, T, No, No, WA, SR @ 78.7'										20°, J, T, No, No, PI, SR (weathered) @ 79.15-79.2'																													
																																																																						78										502										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'																																							
																																																																																79										501										SHALE; dark gray; micritic; fresh; moderately hard; weak; (Bass Islands Group).																													
																																																																																										80										500										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'																			
																																																																																										81										499										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' highly fractured @ 85.5-86.1'																			
																																																																																										82										498										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'																			
																																																																																										83										497										30°, J, T, No, No, WA, SR @ 87.45-87.55', 89.4-89.6'																			
																																																																																										84										496																													
																																																																																										85										495																													
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																																																																																										89										491																													
																																																																																										90										89.9																													

Core box #5 starts @ 86.6'.

**BLACK & VEATCH****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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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 Grainger/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																															
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BLACK & VEATCH

BORING LOG

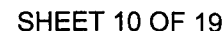
BORING NO. RB-C9

SHEET 8 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																					
PROJECT LOCATION Monroe, MI										COORDINATES N 6112.4' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)		TOTAL DEPTH 270.5 (feet)																																																																																																																			
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																			
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Core box #7 starts @ 115.5'

CLIENT				PROJECT				PROJECT NO.	
Detroit Edison				Fermi 3 COL Application				147483	
PROJECT LOCATION			COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH		
Monroe, MI			N 6112.4'		E 4616.0'		580.9 ft (NAVD 88)		
SURFACE CONDITIONS				COORDINATE SYSTEM		DATE START		DATE FINISHED	
Gravel parking lot near laydown area				Plant		06/14/07		07/15/07	
SAMPLING				LOGGED BY		CHECKED BY		APPROVED BY	
				Grainger/Bonnie		Dogbey/Bonnie		Meyer	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)
HQ	20	0.4	120.1	0.4	0.33	100	83		
			120.5						
HQ	21	5.0	3.0	0.6	60	12			
			</						



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BORING LOG

BORING NO. RB-C9

SHEET 11 OF 19

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6112.4'					E 4616.0'					580.9 ft (NAVD 88)					270.5 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot near laydown area										Plant					06/14/07					07/15/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Bonnie TB					Dogbey/Bonnie TB					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																							
							150																						
HQ	27	0.7	150.5	0.1	0.0	14	0		151	430																			
			151.2						152	429	clay; medium plasticity, high toughness; soft; moist; strong reaction w/HCl @ 151.7-152.1' grades moderately hard @ 152.1'										PP = 0.4 TSF @ 151.7-152.1'. Core box #9 starts @ 152.1'.								
HQ	28	4.3	4.0	1.9	93	44			153	428	0°, J, VN, CI, Pa, PI, SR @ 153.5'																		
									154	427	DOLOMITE; dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, J, VN, No, No, Ir, R @ 154.4'																		
									155	426	50°, J, VN, No, No, PI, SR @ 154.9'																		
			155.5						156	425	CLAYSTONE; calcareous; bluish gray; fresh; weak; moderately hard; w/interbedded dolomite dolomite @ 156.0-156.3'																		
HQ	29	5.0	4.9	1.7	98	34			157	424																			
									158	423	argillaceous dolomite band @ 157.85-158.0'																		
									159	422	highly fractured @ 158.9-159.2', 160.2-160.5'																		
									160	421	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'																		
			160.5						161	420	CLAYSTONE; non-calcareous; bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).																		
HQ	30	5.0	2.1	0.0	42	0			162	419	clay; soft @ 162.2-162.5'																		
									163	418																			
									164	417																			
									165	416	DOLOMITE; (Salina Group - Unit F).																		
											CLAYSTONE; non-calcareous; bluish gray; fresh;																		

**BLACK & VEATCH****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'		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>for TB</i> Grainger/Bonnie		CHECKED BY <i>for TB</i> Dogbey/Bonnie		APPROVED BY <i>for</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
							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		411			
			170.5				171		410		CLAYSTONE; bluish gray; fresh; weak; low hardness; (Salina Group - Unit F).	
HQ	32	2.5	1.25	0.0	50	0	172		409		clay; soft @ 171.5-171.8'	
							173		408			
			173.0				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'	
							177		404		90°, J, T, No, No, PI, SR @ 175.6-176.0'	
HQ	34	2.5	2.1	0.0	84	0	178		403		limestone; greenish gray @ 176.0-176.3'	
							179		402		60°, J, VN, No, No, PI, SR @ 176.1-176.3'	
			178.0				180		401		0°, V, MW, Ca, Fi, PI, R @ 178.2'	
HQ	35	2.5	1.2	0.0	48	0					limestone band @ 179.1-179.3'	
											claystone band @ 179.3-179.4'	

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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' E 4616.0'				GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)				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 Grainger/Bonnie ⁷⁷³		CHECKED BY Dogbey/Bonnie ⁷⁸		APPROVED BY Meyer SM			
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							
							180				LIMESTONE; (Salina Group - Unit F).		
HQ	36	2.5	0.5	0.0	20	0	181				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'		
							182				limestone band @ 182.4-182.5'		
HQ	37	2.5	2.3	0.0	92	0	183						
							184				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'.	
							185				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'		
HQ	38	2.5	1.5	0.0	60	0	186						
							187					Discrete sample 10B taken from HQ-38 @ 186.7-187.3'.	
							188						
HQ	39	2.5	1.2	0.0	48	0	189						
							190				LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		
HQ	40	2.5	0.5	0.0	20	0	191						
							192						
							193				grades grayish brown @ 193.0'	Core box #11 starts @ 193.0'.	
HQ	41	2.5	2.0	0.0	80	0	194				DOLOMITE; (Salina Group - Unit F).		
							195				CLAY; (Salina Group - Unit F).		

**BLACK & VEATCH****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 Grainger/Bonnie		CHECKED BY Doggby/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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
HQ	42	2.0	2.0	0.0	100	0	195		195.0		LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).	
			195.5				196		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					
			197.5				198				clay bands @ 197.5-197.7', 197.9-198.1'	
HQ	43	3.0	3.0	1.0	100	33	199				brecciated dolomite band @ 198.4'	Discrete sample 11A taken from HQ-43 @ 198.5-199.0'.
							200				highly fractured @ 199.5-200.0'	
			200.5				201					
							202				LIMESTONE; greenish gray; micritic; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F).	
HQ	44	5.0	2.5	0.8	50	16	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'	
HQ	45	5.0	4.1	0.0	82	0	208				60°, J, T, No, No, PI, SR @ 207.4-207.5' 20°, J, T, No, No, PI, SR @ 207.5-207.6'	
							209				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'	
							210				LIMESTONE; greenish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). clay; white @ 209.25-209.35'	

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C9

SHEET 15 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)										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 Grainger/Bonnie										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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS	
HQ		46		5.0		3.2		1.9		64		38		210								20°J,T,No,No,PI,SR @ 209.3' 90°J,T,No,No,PI,SR @ 209.65-209.8', 210.0-210.3'																				Core box #12 starts @ 210.5'.	
						210.5								211				370				DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; w/fossil layers; (Salina Group - Unit F).																					
														212				369				0°J,VN,Ca,Sp,PI,SR @ 210.7', 210.8', 210.9' 0°J,VN,No,No,Ir,SR @ 211.1', 211.5'																					
														213				368				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/dolomite clasts; (Salina Group - Unit F).																					
														214				367				DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°J,VN,No,No,Ir,SR @ 211.8', 212.3'																					
														215				366				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).																				Driller reported about 1.0' drop of drill rod @ 213.0-214.0'.	
						215.5								216				365				LIMESTONE; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F). 0°J,T,No,No,PI,SR @ 214.4' 60°J,T,No,No,PI,SR @ 215.2-215.5'; pale brown																					
														217				364				0°J,VN,No,No,WA,SR @ 216.7'																					
														218				363				DOLOMITE; shaley; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 90°J,VN,Ca,Pa,WA,SR @ 217.5-219.3' 0°J,VN,No,No,PI,SR @ 217.6', 217.8', 218.6', 219.3', 219.5', 220.0'																					
														219				362																									
														220				361																								Water level @ 25.6' prior to drilling on 07/15/07.	
						220.5								221				360				BRECCIA; healed; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/shaley dolomite clasts; (Salina Group - Unit F).																					
														222				359				90°J,T,No,No,PI,S; joint has dolomite on one side & limestone on other @ 222.0-223.5'																					
														223				358																									
														224				357																									
HQ		48		5.0		1.5		0.0		30		0		225				356				CLAYSTONE; weak to very weak; w/dolomite partings																				Driller reported rapid advancement of drill stem from 223.5-228.5'.	

**BLACK & VEATCH****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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>GEO Rev</i> Grainger/Bonnie ^{7B}										CHECKED BY <i>8/27</i> Dogbey/Bonnie ^{7B}										APPROVED BY <i>EM</i> Meyer																																																	
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																			
HQ 49 5.0 2.0 0.0 40 0										225																																																																					
										225.5																																																																					
										226																																																																					
										227																																																																					
										228																																																																					
										229																																																																					
										230																																																																					
										231																																																																					
										232																																																																					
HQ 50 5.0 2.0 0.0 40 0										233																																																																					
										234																																																																					
										235																																																																					
										236																																																																					
HQ 51 2.5 1.9 0.3 76 12										237																																																																					
										238																																																																					
										239																																																																					
HQ 52 2.5 1.5 0.4 60 16										240																																																																					

228.5
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)

229.5
DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).
90°, J, N, Cl, Pa, Pl, 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'

234.7
BRECCIA; poorly indurated to indurated; limestone matrix; greenish gray; micritic; fresh; strong; hard; w/ shaley dolomite clasts; (Salina Group - Unit F).

236.1
DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit F).
0°, J, VN, Cl, Pa, Pl, SR @ 236.7', 236.9', 237.2', 237.3', 237.4', 237.5', 237.9'

237.3
DOLOMITE; gray; micritic; fresh; strong; moderately hard; (Salina Group - Unit F).

237.7
DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/fossil zones; (Salina Group - Unit E).
0°, J, T, No, No, Pl, SR @ 238.8', 239.4', 239.6'
30°, J, T, No, No, Pl, SR @ 238.8-239.0'
90°, J, T, No, No, Pl, SR @ 239.4-239.6'
60°, J, T, No, No, Pl, SR @ 239.6-239.9'

Core box #13 starts @ 235.5'.

**BLACK & VEATCH****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' E 4616.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)		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 for</i> Grainger/Bonnie					CHECKED BY <i>EM for</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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS											
							240				90°, J, T, No, No, PI, SR @ 239.8-240.0', 240.0-240.3'												
			240.5				241		340		0°, J, VN, No, No, PI, SR @ 241.5'												
							242		339														
HQ	53	5.0	3.8	1.9	76	38	243		338		60°, J, T, No, No, PI, SR @ 242.3-242.7' 90°, J, VN, No, No, Ir, SR @ 242.5-242.7' 0°, J, VN, No, No, PI, SR @ 242.55', 242.65' 65°, J, T, No, No, PI, SR @ 243.1-243.4' 0°, J, VN, No, No, PI, SR @ 243.4', 243.8' 90°, J, VN, No, No, PI, SR @ 243.8-244.1'												
							244		337		0°, J, VN, No, No, PI, SR @ 244.3'												
							245		336														
			245.5				246		335		0°, J, VN, No, No, PI, SR @ 246.4', 246.65'												
							247		334														
HQ	54	5.0	5.0	4.0	100	80	248		333		0°, J, VN, No, No, PI, SR @ 247.4' 90°, J, T, No, No, PI, SR @ 247.4-247.75' 0°, J, VN, No, No, PI, SR @ 247.65', 250.05' 30°, J, T, No, No, PI, SR @ 247.8-248.0', 248.7-248.85'												
							249		332														
							250		331														
			250.5				251		330														
							252		329		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'												
HQ	55	5.0	1.5	0.0	30	0	253		328		90°, J, T, No, No, PI, SR @ 252.4-252.5'	Driller reported rapid advancement @ 252.5-255.3'.											
							254		327														
							255		326														

CLIENT										PROJECT										PROJECT NO.																																							
Detroit Edison										Fermi 3 COL Application										147483																																							
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																												
Monroe, MI					N 6112.4'					E 4616.0'					580.9 ft (NAVD 88)					270.5 (feet)																																							
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																							
Gravel parking lot near laydown area										Plant					06/14/07					07/15/07																																							
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																							
										Grainiger/Bonnie					Dogbey/Bonnie					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										56					5.0					4.5					2.2					90					44																								
HQ										57					5.0					5.0					3.6					100					72																								
HQ										58					5.0					5.0					4.5					100					90																								

BLACK & VEATCH

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' 580.9 ft (NAVD 88)				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>EJG/TB</i> Grainger/Bonnie				CHECKED BY <i>EJG/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		
CORING								DEPTH (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					



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' E 4451.3'										GROUND ELEVATION (DATUM) 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 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 RECOVERY		PERCENT RECOVERY		RQD																																																	
SPT	1	50/5	-	-	50+	0.3							0		581							SILT (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).																				Boring advanced w/4 1/4" ID; 8" OD hollow stem augers. SPT performed w/ BK81 automatic hammer.																			
SPT	2	3	4	3	7	0.4							1		580							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).																																							
SPT	3	1	7	8	15	0.4							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							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																				Change in drill reaction @ 13.8'.																			
													15																																																



BLACK & VEATCH

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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)			
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											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (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							
SPT	4	4	6	9	15	1.2		15		566			
								16		565			PP = 1.5 STF @ 16.0'.
								17		564			
								18		563			
TW	5					2.0		19		562			
								20		561			PP = 1.8 TSF @ 19.5'.
SPT	6	2	2	6	8	1.5		21		560			
								22		559			
								23		558			
								24		557			
TW	7					1.1		25		556			
								26		555			
SPT	8	44	40	30	70	1.5		27		554			
								28		553			
								29		552			
								30					

21.0	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'	
25.0	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.	TV = 1.3 TSF @ 25.0'. PP = 4.0 TSF @ 25.0'.
27.4	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'	Auger refusal @ 27.4'. Set nominal 6" temporary steel casing to 28.0'. Below 27.4' continued w/ triple tube wire line core barrel
28.6	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' E 4451.3'										GROUND ELEVATION (DATUM) 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 Meyer																																																												
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="7">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										GRAPHIC LOG										CLASSIFICATION OF MATERIALS										REMARKS									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																				
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD																																																																																				
HQ 2 5.0 5.0 2.9 100 58							30 551																														90°, J, T, No, No, PI, SR @ 31.25-31.55', 31.5-31.55', 32.5-34.0'										w/diamond bit using water as drilling fluid. Core box #1 starts @ 27.4'.																																											
							31 550																														0°, B, VN, UK, Sp, PI, SR @ 31.3', 31.55', 31.6'																																																					
							32 549																														0°, B, VN, UK, Sp, PI, SR @ 32.5', 32.8', 33.0', 33.2', 33.3'																																																					
							33 548																																																																																			
							34 547																														DOLOMITE; dark grayish brown & grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).																																																					
HQ 3 5.0 5.0 3.75 100 75							35 546																														0°, B, VN, No, No, PI, SR @ 34.8', 35.2'																																																					
							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'																																																					
							39 542																														90°, J, T, No, No, PI, SR @ 37.5-37.9'																																																					
							40 541																														grades light gray @ 37.8'																																																					
							41 540																														0°, B, VN, UK, Sp, PI, SR @ 37.9'																																																					
							42 539																														70°, J, T, No, No, PI, SR @ 38.1-34.4'																																																					
							43 538																														0°, B, VN, No, No, PI, SR @ 38.3', 38.5'										Water level @ 8.3' prior to drilling on 08/16/07. Core box #2 starts @ 39.0'.																																											
HQ 4 5.0 4.6 3.5 92 70							44 537																														DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).																																																					
							45 537																														80°, J, T, No, No, PI, SR @ 39.3-39.9'																																																					
																																					0°, B, VN, No, No, PI, SR @ 40.7', 41.1'																																																					
																																					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'																																																					
																																					0°, B, VN, No, No, PI, SR @ 43.3'																																																					
																																					shale parting @ 43.5'																																																					
																																					0°, B, VN, No, No, PI, SR @ 44.2'																																																					
																																					70°, J, T, No, No, PI, SR @ 44.7-45.6'																																																					



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' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TS}										CHECKED BY Dogbey/Bonnie ^{TS}										APPROVED BY Meyer																																																																																												
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																				
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<table border="1"> <tr> <td>HQ</td> <td>5</td> <td>5.0</td> <td>4.6</td> <td>0.3</td> <td>92</td> <td>6</td> </tr> </table>										HQ	5	5.0	4.6	0.3	92	6	<table border="1"> <tr> <td>45</td> <td></td> <td>536</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 45.0', 45.2'</td> <td></td> </tr> <tr> <td>46</td> <td></td> <td>535</td> <td></td> <td>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'</td> <td></td> </tr> <tr> <td>47</td> <td></td> <td>534</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 47.0', 47.1', 47.4', 47.7'</td> <td></td> </tr> <tr> <td>48</td> <td></td> <td>533</td> <td></td> <td>50°,J,T,No,No,PI,SR @ 47.7-48.0' fractured @ 48.0-48.3'</td> <td></td> </tr> <tr> <td>49</td> <td></td> <td>532</td> <td></td> <td>0°,B,VN,No,No,PI,SR @ 48.5'</td> <td></td> </tr> <tr> <td>50</td> <td></td> <td>531</td> <td></td> <td>anhydrite @ 49.2' shale parting @ 49.5' 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'</td> <td></td> </tr> <tr> <td>51</td> <td></td> <td>530</td> <td></td> <td></td> <td></td> </tr> <tr> <td>52</td> <td></td> <td>529</td> <td></td> <td>shale partings - 0°,B,T,SR @ 51.9' 70°,J,T,No,No,PI,R @ 52.0-53.1', 52.1-52.3' 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'</td> <td></td> </tr> <tr> <td>53</td> <td></td> <td>528</td> <td></td> <td>70°,J,T,No,No,PI,R @ 53.3-53.5'</td> <td></td> </tr> <tr> <td>54</td> <td></td> <td>527</td> <td></td> <td>DOLOMITE; oolitic; grayish brown; very fine grained; fresh; strong; hard; (Bass Islands Group). 60°,J,T,No,No,PI,SR @ 53.8-54.0'</td> <td>Core box #3 starts @ 54.0'.</td> </tr> <tr> <td>55</td> <td></td> <td>526</td> <td></td> <td></td> <td></td> </tr> <tr> <td>56</td> <td></td> <td>525</td> <td></td> <td>30°,J,T,No,No,PI,SR @ 55.3-55.5', 55.5-55.65', 55.7-55.85'</td> <td></td> </tr> <tr> <td>57</td> <td></td> <td>524</td> <td></td> <td>DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'</td> <td></td> </tr> <tr> <td>58</td> <td></td> <td>523</td> <td></td> <td>very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'</td> <td></td> </tr> <tr> <td>59</td> <td></td> <td>522</td> <td></td> <td>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'</td> <td></td> </tr> <tr> <td>60</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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'		50		531		anhydrite @ 49.2' shale parting @ 49.5' 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' 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'		53		528		70°,J,T,No,No,PI,R @ 53.3-53.5'		54		527		DOLOMITE; 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'		57		524		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'		58		523		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'		59		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'		60					
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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'					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 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															
CORING																					
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		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		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'									
								75			0° B, T, No, No, PI, SR @ 73.1'										

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**BLACK & VEATCH****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	
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	11	5.0	5.0	3.7	100	74	75		506		60°, J, T, Ca, Fi, PI, SR @ 75.7-75.9'										
							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'										
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										
							79		502		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'										
							80		501		shale parting - 10°, B, N, PI, SR @ 80.1'										
											SHALE; black; fresh; weak; low hardness; (Bass Islands Group).										
HQ	12	5.0	5.0	3.4	100	68	81		500		interbedded w/dolomite @ 80.55-80.65'										
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										
							82		499		0°, J, VN, CI, Sp, PI, SR @ 81.95'										
											90° J, T, No, No, WA, R @ 81.95-82.9'										
							83		498												
							84		497												
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group).										
							85		496		brecciated, healed @ 85.2-85.5'										
							86		495		70°, J, T, No, No, Ir, SR @ 85.9-86.3', 88.1-88.4'										
HQ	13	5.0	5.0	3.3	100	66	87		494		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'										
							88		493		10°, J, T, CI, Sp, PI, SR @ 87.5'										
											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				90°, J, T, No, No, PI, SR @ 89.7-89.8'										

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Water level @ 16.1' prior to drilling on 08/21/07.

Core box #5 starts @ 81.3'.



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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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)					
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07					
								DATE FINISHED 08/25/07					
SAMPLING				LOGGED BY Bonnie ^{TB}				CHECKED BY Dobbey/Bonnie ^{TB}					
								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							
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'	
								91		490			
								92		489		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). cross-bedding @ 40° @ 91.65-91.9' 0°, J, T, Cl, Sp, PI, SR @ 92.0', 92.3', 93.0', 93.3' 90°, J, T, No, No, PI, SR @ 92.05-92.3'	
								93		488			
								94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'.
								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'	
HQ	15	5.0	4.9	2.7	98	54		96		485		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'	
								97		484		grades grayish brown @ 97.1' 10°, J, VN, No, No, PI, SR @ 97.4'	
								98		483			
								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'	
								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'	
HQ	16	5.0	4.8	3.1	96	62		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		477		shale parting - 0°, B, T, PI, SR @ 103.7'	
								105				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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie ^{TP}				CHECKED BY Dogbey/Bonnie ^{TP}				
								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	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' 20° J, VN, Cl, Sp, PI, SR @ 105.9' 30° J, VN, No, No, PI, SR @ 107.0'	
							107		474			
							108		473		50° J, VN, No, No, PI, SR @ 107.9-108.1'	
							109		472			Core box #7 starts @ 109.0'.
							110		471			
HQ	18	5.0	4.1	1.7	82	34	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' 0° J, VN, No, No, PI, SR @ 111.6' 30° J, VN, No, No, PI, SR @ 111.7-112.0' 0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'	
							113		468		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'	
							114		467			
							115		466		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'	
							116		465		shale parting @ 116.0'	
HQ	19	5.0	2.9	0.4	58	8	117		464		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'	
							118		463		50° J, T, No, No, PI, SR @ 118.1-118.3' shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'	
							119		462			
							120					

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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)				
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				
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	20	5.0	1.0	0.0	20	0	120		461			
							121		460			
							122		459		anhydrite @ 122.2-122.5'	
							123		458			
							124		457		DOLOMITE; argillaceous; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F).	
HQ	21	2.5	1.5	0.4	60	16	125		456			
							126		455			
							127		454		CLAYSTONE; dark gray to grayish brown; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). dolomite @ 125.5-125.8'	
HQ	22	2.5	1.6	0.4	64	16	128		453		0° J,VN,No,No,PI,SR @ 127.9'	
							129		452		dolomite; gray; micritic; fresh; strong; hard @ 128.2-128.6'	
							130		451		10° J,VN,No,No,WA,SR @ 128.2'	
HQ	23	2.5	2.0	0.0	80	0	131		450		0° J,VN,No,No,PI,SR @ 128.6'	
							132		449		DOLOMITE; gray; (Salina Group - Unit F)	
							133		448		0° J,VN,No,No,PI,SR @ 130.0', 130.4', 130.5'	
							134		447		50° J,VN,No,No,PI,SR @ 130.15-130.4'	
							135				CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).	
											dolomite; gray @ 132.4-132.8'	
											90° J,T,No,No,PI,SR @ 132.4-132.7'	
											0° J,T,No,No,PI,SR @ 132.65', 132.7', 132.45'	
											calcite filled vug in dolomite @ 132.75'	

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Core box #8
starts @ 129.0'



BLACK & VEATCH

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' 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 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	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 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' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TS}										CHECKED BY Dogbey/Bonnie ^{TS}										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	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			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																																									
							160		421																																									
HQ	35	2.5	0.5	0.35	20	14	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		418																																									
							164		417		DOLOMITE; gray; (Salina Group - Unit F)																																							
				164.0			164		417		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																																											

5/22/2008 9:25 AM DTE - Fermi 3 Geotech



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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' E 4451.3'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)					TOTAL DEPTH 271.3 (feet)																																																																																																																																																																												
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SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																																																																																																																					
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5/22/2008 9:25 AM DTE - Fermi 3 Geotech



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																																																																	
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HQ 43 2.5 0.2 0.0 8 0										180																				401																				grayish brown; strong; hard; (Salina Group - Unit F).																																													
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HQ 44 2.5 0.0 0.0 0 0										182																				399																																																																	
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HQ 45 2.5 0.0 0.0 0 0										185																				396																																																																	
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HQ 46 2.5 0.2 0.0 8 0										187																				394																																																																	
										188																				393																																																																	
										189																				392																																																																	
HQ 47 2.5 0.6 0.0 24 0										190																				391																																																																	
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HQ 48 2.5 1.5 0.0 60 0										192																				389																																																																	
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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie TP					Dobbey/Bonnie TP					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	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											
								201		380											
HQ	51	5.0	2.45	1.4	49	28		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				90°, J, VN, No, No, PI, SR @ 208.2-209.0'				Rough drilling @ 209.0-212.0'.					
												0°, B, VN, No, No, PI, SR @ 208.7'									

CLIENT						PROJECT				PROJECT NO.	
Detroit Edison						Fermi 3 COL Application				147483	
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH		
Monroe, MI			N 6050.7'			E 4451.3'			581.1 ft (NAVD 88)		
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED	
Earth berm						Plant		08/14/07		08/25/07	
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY	
						Bonnie TB		Dogbey/Bonnie TB		Meyer EM	
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS
											REMARKS
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'
							212		369		0°, B,VN,No,No,PI,SR @ 211.4', 212.1', 212.5', 212.8', 213.1'
							213		368		65°, J,VN,No,No,PI,SR @ 211.75-211.5' limestone; brownish gray/gray @ 212.5-212.8'
							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'
HQ	54	5.0	2.9	0.95	58	19	216		365		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'
							217		364		0°, B,VN,No,No,PI,SR @ 216.0', 216.1', 216.2', 216.3'
							218		363		LIMESTONE; very dark grayish brown; micritic; fresh; strong; hard (Salina Group - Unit F). fractured @ 216.5-217.5'
							219		362		60°, J,VN,No,No,PI,SR @ 217.8-218.2' 0°, B,VN,UK,Sp,PI,SR @ 218.1'
							220		361		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'
							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				

CLIENT							PROJECT							PROJECT NO.	
Detroit Edison							Fermi 3 COL Application							147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6050.7'				E 4451.3'				581.1 ft (NAVD 88)		271.3 (feet)	
SURFACE CONDITIONS							COORDINATE SYSTEM			DATE START		DATE FINISHED			
Earth berm							Plant			08/14/07		08/25/07			
SAMPLING							LOGGED BY			CHECKED BY			APPROVED BY		
							Bonnie ^{TB}			Dogbey/Bonnie ^{TB}			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	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						
			226.5				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'				
HQ	57	2.5	0.3	0.0	12	0	228		353						
							229		352						
			229.0				230		351		dolomite band; gray @ 230.0-230.4'	Core box #11 starts @ 229.0'			
HQ	58	2.5	0.4	0.0	16	0	231		350						
							232		349						
			231.5				233		348		<u>DOLOMITE</u> ; gray; (Salina Group - Unit F) fractured @ 232.4-232.8' 0°, B, VN, CI, Sp, PI, SR @ 232.8'				
HQ	59	2.5	0.7	0.0	28	0	234		347		<u>BRECCIA</u> ; 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		<u>LIMESTONE</u> ; 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		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Salina Group - Unit F). 70°, J, VN, No, No, PI, SR @ 235.8-236.0'				
			236.5				238		343		<u>BRECCIA</u> ; poorly indurated claystone matrix; w/clasts of dolomite & limestone; (Salina Group - Unit F). dolomite band; light grayish brown; 5% vuggy @ 237.1-237.2'				
HQ	61	2.5	1.9	1.0	76	40	239		342		<u>DOLOMITE</u> ; 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'				
			239.0				240				<u>DOLOMITE</u> ; 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' 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 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 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' 0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'		
							251		330		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							252		329		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							253		328		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							254		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		
							255						

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BORING NO. RB-C10

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TP}										CHECKED BY Dogbey/Bonnie ^{TP}										APPROVED BY Meyer																																																																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	<table border="1"> <tr> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																		
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GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																											
HQ										65										5.0										4.8										4.1										96										82										255										326										<p>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'</p>																			
HQ										66										1.1										1.1										0.65										100										59										256										325										<p>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'</p>																			
HQ										67										3.9										3.9										3.7										100										95										257										324										<p>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'</p>																			
HQ										68										5.0										5.0										4.7										100										94										258										323										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale parting; (Salina Group - Unit E). 0° J,VN,No,No,PI,S @ 261.3', 262.1'</p>																			
HQ										69										5.0										5.0										4.7										100										94										259										322										<p>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'</p>																			
HQ										70										5.0										5.0										4.7										100										94										260										321										<p>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'</p>																			
HQ										71										5.0										5.0										4.7										100										94										261										320										<p>DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0° J,VN,Gy,Sp,PI,SR @ 267.5'</p>																			
HQ										72										5.0										5.0										4.7										100										94										262										319										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										73										5.0										5.0										4.7										100										94										263										318										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										74										5.0										5.0										4.7										100										94										264										317										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										75										5.0										5.0										4.7										100										94										265										316										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										76										5.0										5.0										4.7										100										94										266										315										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										77										5.0										5.0										4.7										100										94										267										314										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										78										5.0										5.0										4.7										100										94										268										313										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										79										5.0										5.0										4.7										100										94										269										312										<p>DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).</p>																			
HQ										80										5.0										5.0										4.7										100										94										270										311																													

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																																																																																																																																																																																																																																																																																		
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CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie TB					Dogbey/Bonnie TB					Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	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	1	50/5	-	-	50+	0.3	0		581			<p><u>SILT</u> (MH) - About 100% low plasticity, low toughness, no dilatancy, low dry strength fines; dark grayish brown; very soft; dry; (Fill).</p> <p>Well graded <u>GRAVEL</u> (GW) - About 90% fine to coarse, subangular to angular, hard gravel w/max. size 2"; about 5% sand; about 5% fines; (Fill).</p>	Boring advanced w/4¼" ID; 8" OD hollow stem augers. SPT performed w/ BK81 automatic hammer.								
SPT	2	3	4	3	7	0.4	6		575												
							7		574												
							8		573												
							9		572												
							10		571												
SPT	3	1	7	8	15	0.4	11		570												
							12		569												
							13		568												
							14		567												
							15														
												<p>Fat <u>CLAY</u> (CH) - About 90% high plasticity, high toughness, no dilatancy fines; trace fine to coarse sand; trace angular gravel w/max. size ½"; gray; hard; moist; firm; homogeneous; slight reaction w/HCl</p>		Change in drill reaction @ 13.8'							



BLACK & VEATCH

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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)			
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											

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (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							
SPT	4	4	6	9	15	1.2		15		566			
								16		565			PP = 1.5 STF @ 16.0'.
								17		564			
								18		563			
TW	5					2.0		19		562			
								20		561			PP = 1.8 TSF @ 19.5'.
SPT	6	2	2	6	8	1.5		21		560			
								22		559			
								23		558			
								24		557			
TW	7					1.1		25		556			
								26		555			
SPT	8	44	40	30	70	1.5		27		554			
								28		553			
								29		552			
								30					

21.0	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'	
25.0	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.	TV = 1.3 TSF @ 25.0'. PP = 4.0 TSF @ 25.0'.
27.4	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'	Auger refusal @ 27.4'. Set nominal 6" temporary steel casing to 28.0'. Below 27.4' continued w/ triple tube wire line core barrel
28.6	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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
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		
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	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		547		DOLOMITE; dark grayish brown & grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
			34.0				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'	
							39		542		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'	
											70° J,T,No,No,PI,SR @ 38.1-34.4'	
											0° B,VN,No,No,PI,SR @ 38.3', 38.5'	Water level @ 8.3' prior to drilling on 08/16/07. Core box #2 starts @ 39.0'.
							40		541		DOLOMITE; light gray & very dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group).	
							41		540		80° J,T,No,No,PI,SR @ 39.3-39.9'	
							42		539		0° B,VN,No,No,PI,SR @ 40.7', 41.1'	
HQ	4	5.0	4.6	3.5	92	70	43		538		DOLOMITE; dark grayish brown; micritic; fresh; strong; hard; w/pitted zones, stylolites & shale partings; (Bass Islands Group).	
							44		537		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'	
											0° B,VN,No,No,PI,SR @ 43.3'	
											shale parting @ 43.5'	
											0° B,VN,No,No,PI,SR @ 44.2'	
											70° J,T,No,No,PI,SR @ 44.7-45.6'	



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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07		DATE FINISHED 08/25/07		
SAMPLING				LOGGED BY Bonnie ^{TS}				CHECKED BY Dogbey/Bonnie ^{TS}		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	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'	
			49.0				50		531		anhydrite @ 49.2' shale parting @ 49.5' 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'	
HQ	6	5.0	5.0	1.0	100	20	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' 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'	
							53		528		70°,J,T,No,No,PI,R @ 53.3-53.5'	
							54		527		DOLOMITE; 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'.
			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	57		524		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,B,VN,No,No,PI,SR @ 56.5', 58.5', 58.9' 30°,J,T,No,No,PI,SR @ 56.6-56.7', 57.2-57.3' fractured @ 56.8-57.1'	
							58		523		very fine grained @ 57.3-57.4' 10°,J,T,No,No,PI,SR @ 57.5', 57.7' mottled dolomite @ 57.7-58.0' shale parting @ 58.0-58.05'	
							59		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'	
			59.0				60					

**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'					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 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															
CORING																					
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		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		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		20° J, T, No, No, PI, SR @ 73.1-73.3'									
								74		507		0° B, T, No, No, PI, SR @ 73.1'									
								75													

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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}	
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	11	5.0	5.0	3.7	100	74	75		506		60°, J, T, Ca, Fi, PI, SR @ 75.7-75.9'										
							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'										
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										
							79		502		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'					Water level @ 16.1' prior to drilling on 08/21/07.					
							80		501		shale parting - 10°, B, N, PI, SR @ 80.1'										
							81		500		SHALE; black; fresh; weak; low hardness; (Bass Islands Group).										
HQ	12	5.0	5.0	3.4	100	68					interbedded w/dolomite @ 80.55-80.65'										
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).										
							82		499		0°, J, VN, CI, Sp, PI, SR @ 81.95'										
											90° J, T, No, No, WA, R @ 81.95-82.9'					Core box #5 starts @ 81.3'.					
							83		498												
							84		497												
											DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/brecciated zones & stylolites; (Bass Islands Group).										
							85		496		brecciated, healed @ 85.2-85.5'										
							86		495		70°, J, T, No, No, Ir, SR @ 85.9-86.3', 88.1-88.4'										
HQ	13	5.0	5.0	3.3	100	66					0°, J, VN, Ca, Sp, PI, S @ 86.5'										
							87		494		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'										
							88		493		10°, J, T, CI, Sp, PI, SR @ 87.5'										
											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				90°, J, T, No, No, PI, SR @ 89.7-89.8'										



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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' E 4451.3'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm					COORDINATE SYSTEM Plant					DATE START 08/14/07				
					DATE FINISHED 08/25/07									
SAMPLING					LOGGED BY Bonnie ^{TB}					CHECKED BY Dobbey/Bonnie ^{TB}				
					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								
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'		
								91		490				
								92		489		DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; w/stylolites; (Bass Islands Group). cross-bedding @ 40° @ 91.65-91.9' 0°, J, T, Cl, Sp, PI, SR @ 92.0', 92.3', 93.0', 93.3' 90°, J, T, No, No, PI, SR @ 92.05-92.3'		
								93		488				
								94		487		0°, B, VN, No, No, PI, SR @ 94.2', 94.5', 94.9'	Core box #6 starts @ 94.0'.	
								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'		
HQ	15	5.0	4.9	2.7	98	54		96		485				
								97		484		grades grayish brown @ 97.1' 10°, J, VN, No, No, PI, SR @ 97.4'		
								98		483				
								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'		
								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'		
HQ	16	5.0	4.8	3.1	96	62		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		477		shale parting - 0°, B, T, PI, SR @ 103.7'		
								105				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' E 4451.3'				GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)				
SURFACE CONDITIONS Earth berm				COORDINATE SYSTEM Plant				DATE START 08/14/07				
								DATE FINISHED 08/25/07				
SAMPLING				LOGGED BY Bonnie ^{TP}				CHECKED BY Dogbey/Bonnie ^{TP}				
								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	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' 20° J, VN, Cl, Sp, PI, SR @ 105.9' 30° J, VN, No, No, PI, SR @ 107.0'	
							107		474			
							108		473		50° J, VN, No, No, PI, SR @ 107.9-108.1'	
			109.0				109		472			Core box #7 starts @ 109.0'.
							110		471			
HQ	18	5.0	4.1	1.7	82	34	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' 0° J, VN, No, No, PI, SR @ 111.6' 30° J, VN, No, No, PI, SR @ 111.7-112.0' 0° J, VN, Ca, Sp, PI, SR @ 112.1', 112.3', 112.6' fractured @ 112.3-112.7'	
							113		468		0° J, VN, No, No, PI, SR @ 112.9', 113.0', 113.1'	
			114.0				114		467			
							115		466		DOLOMITE; argillaceous; dark gray & grayish brown, banded; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit F). shale parting @ 115.2'	
							116		465		shale parting @ 116.0'	
HQ	19	5.0	2.9	0.4	58	8	117		464		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'	
							118		463		50° J, T, No, No, PI, SR @ 118.1-118.3' shale partings - 0° B, VN, PI, SR @ 118.3', 118.7'	
			119.0				119		462			
							120					



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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)				
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				
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	20	5.0	1.0	0.0	20	0	120		461			
							121		460			
							122		459		anhydrite @ 122.2-122.5'	
							123		458			
							124		457		DOLOMITE; argillaceous; micritic; pale brown; fresh; strong; hard; (Salina Group - Unit F).	
HQ	21	2.5	1.5	0.4	60	16	125		456			
							126		455			
							127		454		CLAYSTONE; dark gray to grayish brown; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F). dolomite @ 125.5-125.8'	
HQ	22	2.5	1.6	0.4	64	16	128		453		0° J,VN,No,No,PI,SR @ 127.9'	
							129		452		dolomite; gray; micritic; fresh; strong; hard @ 128.2-128.6'	
							130		451		10° J,VN,No,No,WA,SR @ 128.2'	
HQ	23	2.5	2.0	0.0	80	0	131		450		0° J,VN,No,No,PI,SR @ 128.6'	
							132		449		DOLOMITE; gray; (Salina Group - Unit F)	
							133		448		0° J,VN,No,No,PI,SR @ 130.0', 130.4', 130.5'	
							134		447		50° J,VN,No,No,PI,SR @ 130.15-130.4'	
							135				CLAYSTONE; gray; fresh to slightly weathered; weak to moderately strong; low hardness to moderately hard; w/dolomite layers/seams; (Salina Group - Unit F).	
											dolomite; gray @ 132.4-132.8'	
											90° J,T,No,No,PI,SR @ 132.4-132.7'	
											0° J,T,No,No,PI,SR @ 132.65', 132.7', 132.45'	
											calcite filled vug in dolomite @ 132.75'	

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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' 581.1 ft (NAVD 88)				
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		
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	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 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' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TS}										CHECKED BY Dogbey/Bonnie ^{TS}										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	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				156		425																														
			157				157		424																														
HQ	34	2.5	1.2	0.35	48	14	158		423		dolomite; gray @ 158.0-158.2'																												
			159.0				159		422																														
			160				160		421																														
HQ	35	2.5	0.5	0.35	20	14	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				163		418		DOLOMITE; gray; (Salina Group - Unit F)																												
			163.8				164		417		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).																												
			164.0				164		417																														
							165																																

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Core box #9 @ 159.0'.



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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' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TP}										CHECKED BY Dogbey/Bonnie ^{TP}										APPROVED BY Meyer ^{EM}																																																																		
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD	GRAPHIC LOG										CLASSIFICATION OF MATERIALS																				REMARKS																			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																																										
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)																																																																																														
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																																																																								
																		167						414																																																																								
HQ							38			2.5		0.15		0.0		6		0		168						413																																																																						
																		169						412																																																																								
HQ							39			2.5		0.0		0.0		0		0		170						411																																																																						
																		171						410																																																																								
HQ							40			2.5		0.0		0.0		0		0		172						409																																																																						
																		173						408																																																																								
																		174						407																																																																								
HQ							41			2.5		0.8		0.0		32		0		175						406			<p>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).</p> <p>0°,B,VN,No,No,PI,SR @ 177.1'</p> <p>LIMESTONE; grayish brown; fresh; strong; hard; 5% vuggy; (Salina Group - Unit F). 0°,B,VN,No,No,PI,SR @ 177.7', 178.2'</p> <p>BRECCIA; limestone clasts in a poorly indurated claystone matrix; gray; fresh; moderately strong; moderately hard; w/clasts of limestone; gray &</p>																																																																			
																		176						405																																																																								
																		177						404																																																																								
HQ							42			2.5		1.9		1.1		76		44		178						403																																																																						
																		179						402																																																																								
																				180																																																																												

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

Water level @ 22.3' prior to drilling on 08/23/07.



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' E 4451.3'										GROUND ELEVATION (DATUM) 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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HQ 43 2.5 0.2 0.0 8 0										180																				401																				grayish brown; strong; hard; (Salina Group - Unit F).																																													
										181																				400																																																																	
										181.5																																																																																					
HQ 44 2.5 0.0 0.0 0 0										182																				399																																																																	
										183																				398																																																																	
										184																				397																																																																	
HQ 45 2.5 0.0 0.0 0 0										185																				396																																																																	
										186																				395																																																																	
										186.5																																																																																					
HQ 46 2.5 0.2 0.0 8 0										187																				394																																																																	
										188																				393																																																																	
										189																				392																																																																	
HQ 47 2.5 0.6 0.0 24 0										190																				391																																																																	
										191																				390																																																																	
										191.5																																																																																					
HQ 48 2.5 1.5 0.0 60 0										192																				389																																																																	
										193																				388																																																																	
										194																				387																																																																	
										195																																																																																					

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

**BLACK & VEATCH****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' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TP}										CHECKED BY Dodgey/Bonnie ^{TP}										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																																																																																													
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'										<p>80°, J, VN, No, No, PI, SR @ 195.5-195.7'</p> <p><u>BRECCIA</u>; 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'</p> <p>Core box #10 starts @ 199.0'.</p>																																			
HQ 50 2.5 1.0 0.0 40 0								196										385										196.4																																																																	
HQ 51 5.0 2.45 1.4 49 28								197										384										203.5																																																																	
HQ 52 5.0 2.7 0.9 54 18								198										383										207.7																																																																	
								199										382																				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'																																																							
								200										381																																																																											
								201										380																																																																											
								202										379																																																																											
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								206										375																																																																											
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								208										373																																																																											
								209										372																																																																											
								210																																																																																					

**BLACK & VEATCH****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' E 4451.3'										GROUND ELEVATION (DATUM) 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 Meyer En																							
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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	53	5.0	2.9	0.0	58	0	210		371																																												
							211		370																																												
							212		369																																												
							213		368																																												
							214		367																																												
HQ	54	5.0	2.9	0.95	58	19	215		366																																												
							216		365																																												
							217		364																																												
							218		363																																												
							219		362																																												
HQ	55	5.0	1.2	0.0	24	0	220		361																																												
							221		360																																												
							222		359																																												
							223		358																																												
							224		357																																												
							225																																														

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

Water level @ 23.3' prior to drilling on 08/24/07.

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6050.7'					E 4451.3'					581.1 ft (NAVD 88)		271.3 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Earth berm										Plant					08/14/07		08/25/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie ^{TB}					Dogbey/Bonnie ^{TB}					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															
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												
			226.5				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'									
HQ	57	2.5	0.3	0.0	12	0	228		353												
			229.0				229		352												
HQ	58	2.5	0.4	0.0	16	0	230		351			dolomite band; gray @ 230.0-230.4'									
							231		350												
			231.5				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).									
			234.0				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'									
			239.0				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					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' 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 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	
CORING													
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' 0°, J, VN, CI, Sp, PI, SR @ 250.85', 250.95'		
							251		330		DOLOMITE; gray; micritic; fresh; strong; hard; w/ shale partings; (Salina Group - Unit E). 0°, J, VN, CI, Sp, PI, SR @ 251.3'		
							252		329		DOLOMITE; grayish brown; micritic; fresh; strong; hard; w/anhydrite nodules & veins; (Salina Group - Unit E).		
							253		328		DOLOMITE; gray; micritic; fresh; strong; hard; 5% vugs; anhydrite filled; (Salina Group - Unit E). shale parting - 10°, V, PI, S @ 253.15'		
							254		327		0°, J, VN, No, No, PI, SR @ 254.1', 254.2', 254.3' shale band; very dark gray @ 254.3-254.5'		
							255						

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C10

SHEET 18 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6050.7' E 4451.3'										GROUND ELEVATION (DATUM) 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 ^{TP}										CHECKED BY Dogbey/Bonnie ^{TP}										APPROVED BY Meyer																																																																															
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GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																											
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'										255.8									
HQ										66										1.1										1.1										0.65										100										59										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'										257.9									
HQ										67										3.9										3.9										3.7										100										95										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'										259.0									
HQ										68										5.0										5.0										4.7										100										94										258										323										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale parting; (Salina Group - Unit E). 0° J,VN,No,No,PI,S @ 261.3', 262.1'										259.0									
HQ										69										5.0										5.0										4.7										100										94										259										322										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'										260.1									
HQ										70										5.0										5.0										4.7										100										94										260										321										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'										261.2									
HQ										71										5.0										5.0										4.7										100										94										261										320										DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Salina Group - Unit E). 0° J,VN,Gy,Sp,PI,SR @ 267.5'										262.2									
HQ										72										5.0										5.0										4.7										100										94										262										319										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										263.3									
HQ										73										5.0										5.0										4.7										100										94										263										318										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										264.0									
HQ										74										5.0										5.0										4.7										100										94										264										317										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										265.3									
HQ										75										5.0										5.0										4.7										100										94										265										316										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										266.5									
HQ										76										5.0										5.0										4.7										100										94										266										315										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										267.4									
HQ										77										5.0										5.0										4.7										100										94										267										314										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										268.5									
HQ										78										5.0										5.0										4.7										100										94										268										313										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										269.0									
HQ										79										5.0										5.0										4.7										100										94										269										312										DOLOMITE; gray; micritic; fresh; strong; hard; w/shale partings; (Salina Group - Unit E).										270									

5/22/2008 9:25 AM DTE - Fermi 3 Geotech

CLIENT						PROJECT				SHEET NO. OF TOTAL SHEETS		
Detroit Edison						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>[Signature]</i> Dogbey/Bonnie TB	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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
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

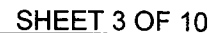
CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6051.8'		GROUND ELEVATION (DATUM) E 4534.6'		TOTAL DEPTH 580.0 ft (NAVD 88)				
SURFACE CONDITIONS Gravel Parking Area				COORDINATE SYSTEM Plant		DATE START 08/23/07		DATE FINISHED 08/28/07				
SAMPLING				LOGGED BY Grainger/Mass/Bonnie		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						
S	1	3.5				2.5	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			
							4		576			
							5		575			
							6		574			
							7		573			
							8		572			
							9		571			
S	2	10.0				3.5	10		570		<u>PEAT</u> (PT) - About 100% plant tissue; black; moist; fibrous.	Discrete sample SC1 collected from S1.
							11		569			
							12		568			
							13		567			
							14		566			
							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' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										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 Grainger/Mass/Bonnie										CHECKED BY Dobbey/Bonnie										APPROVED BY Meyer																																																																																																																			
<table border="1"> <thead> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </thead> <tbody> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> <th></th> </tr> </tbody> </table>										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		<table border="1"> <thead> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td>15</td> <td></td> <td>565</td> <td></td> <td></td> <td>Set nominal 6" temporary steel casing to 15.5'.</td> </tr> <tr> <td>16</td> <td>TW</td> <td>564</td> <td></td> <td>Lean CLAY (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).</td> <td>Below 15.5' continued w/4 1/2" tricone bit using water as drilling fluid. SPT performed w/D-50 automatic hammer.</td> </tr> <tr> <td>17</td> <td></td> <td>563</td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td>562</td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>SPT</td> <td>561</td> <td></td> <td>Lean CLAY 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).</td> <td>Water level @ 15.0' prior to drilling on 08/24/07. PP = 2.5 TSF @ 17.5'. TV = 0.6 TSF @ 17.5'.</td> </tr> <tr> <td>20</td> <td></td> <td>560</td> <td></td> <td></td> <td></td> </tr> <tr> <td>21</td> <td>TW</td> <td>559</td> <td></td> <td></td> <td></td> </tr> <tr> <td>22</td> <td></td> <td>558</td> <td></td> <td></td> <td></td> </tr> <tr> <td>23</td> <td></td> <td>557</td> <td></td> <td></td> <td>PP = 4.5 TSF @ 22.5'. 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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				19	SPT	561		Lean CLAY 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	TW	559				22		558				23		557			PP = 4.5 TSF @ 22.5'. T = 0.71 TSF @ 22.5'.	24	SPT	556		Sandy Lean CLAY (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).		25		555				26		554				27	SPT	553		Clayey SAND (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'.	28		552			Below 27.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced	29	S	551		DOLOMITE; crystalline; gray; micritic; slightly weathered; strong; hard; highly fractured; (Bass Islands Group).		30		550			
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																																																																																																																																										
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5/8/2008 10:14 AM DTE - Fermi 3 Geotech

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					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					
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	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).									
								47		533		20°,J,VN,No,No,PI,SR @ 46.5-46.7', 46.3-46.4'									
								48		532		no stylolites or banding @ 47.9-48.5'									
								49		531		grades dark grayish brown @ 48.75' 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).									
								51		529		90°,J,VN,No,No,Ir,R @ 50.4-51.2' 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' 0°,J,VN,Ci,Sp,PI,SR @ 51.35' grades very fine grained @ 51.5' pyrite (0.01") @ 51.5'									
								53		527		DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group). 0°,J,VN,Ci,Sp,PI,SR @ 51.75' 0°,J,VN,No,No,PI,SR @ 52.4'									
								54		526		0°,J,T,Ci,Fi,Ir,SR (slightly weathered) @ 54.5'									
			54.5					55		525		DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).									
								56		524		DOLOMITE; brecciated, healed; grayish brown; fresh; strong; hard; (Bass Islands Group). shale parting @ 55.5' 90°,J,VN,No,No,PI,SR @ 55.6-57.1'									
HQ	6	5.0	4.8	3.4	96	68		57		523		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'.					
								58		522											
								59		521		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'									
			59.5					60		520											



BLACK & VEATCH

BORING LOG

BORING NO. RB-C11

SHEET 5 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																									
PROJECT LOCATION Monroe, MI										COORDINATES N 6051.8' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										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 Grainger/Mass/Bonnie										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		PERCENT RECOVERY		RQD																																	
HQ		7		5.0		5.0		2.6		100		52		60		520								<p>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'</p> <p>fractured @ 63.0-63.1'</p> <p>DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 30°, J, T, No, No, PI, SR @ 64.3-64.5'</p> <p>DOLOMITE; brecciated, healed; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group).</p> <p>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'</p> <p>DOLOMITE; light grayish brown; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). 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'</p>																					
HQ		8		5.0		5.0		3.7		100		74		61		519																													
HQ		9		5.0		4.8		4.2		96		84		62		518																													
														63		517																													
														64		516																													
														65		515																													
														66		514																													
														67		513																													
														68		512																													
														69		511																													
														70		510																												Core box #4 starts @ 69.5'.	
														71		509																													
														72		508																												No drilling fluid return @ 72.0'.	
														73		507																													
														74		506																													
														75		505																													

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									
										Granger/Mass/Bonnie					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								
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'																		
							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, Cl, Sp, WA, R @ 80.9' calcite filled fractures @ 81.3-81.5' brecciated, healed @ 81.6-81.8'																		
							82		498		brecciated, healed @ 83.2-83.4'																		
							83		497																				
							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'																		
							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, Cl, Sp, PI, SR @ 86.2-86.3' shale parting - 0° B, VN, Fi, PI, SR @ 86.4'																		
HQ	12	5.0	4.8	3.6	96	72	87		493		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'																		
							88		492																				
							89		491		DOLOMITE; light grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 10° J, VN, Cl, Sp, PI, SR @ 88.8', 89.1' brecciated, healed @ 89.2-89.4'																		
							90		490																				

**BLACK & VEATCH****BORING LOG**

BORING NO. RB-C11

SHEET 7 OF 10

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6051.8' E 4534.6'										GROUND ELEVATION (DATUM) 580.0 ft (NAVD 88)										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 Grainger/Mass/Bonnie										CHECKED BY Dogbey/Bonnie										APPROVED BY Meyer																																																																																																													
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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																																																							
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										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' 50°, J, T, No, No, PI, SR @ 91.0' 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' shale partings - 0°, B, VN, Sp, PI, SR @ 92.85', 93.3' shale partings - 0°, B, VN, Sp, PI, SR @ 94.3', 94.05' DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group). fractured @ 95.0-95.1' shale partings - 0°, B, T, Sp, PI, SR @ 95.0', 95.1', 95.6', 96.5', 96.55', 96.65', 96.75', 97.1' 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' shale partings - 0°, B, T, Sp, PI, SR @ 98.1', 98.3', 98.5' shale partings - 0°, B, VN, Sp, PI, SR @ 99.8', 102.1' 60°, J, VN, No, No, PI, SR @ 100.2-100.5' 30°, J, VN, No, No, PI, SR @ 102.0-102.1' 60°, J, VN, CI, Sp, PI, SR @ 102.35-102.65' 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' fractured @ 104.5-104.6'										91										489										91.3										Core box #6 starts @ 98.5'.									
HQ										14										5.0										5.0										3.8										100										76										92										488																																																											
HQ										15										5.0										4.3										3.0										86										60										93										487																																																											
HQ										16										5.0										4.3										3.0										86										60										94										486																																																											
HQ										17										5.0										4.3										3.0										86										60										95										485																																																											
HQ										18										5.0										4.3										3.0										86										60										96										484																																																											
HQ										19										5.0										4.3										3.0										86										60										97										483																																																											
HQ										20										5.0										4.3										3.0										86										60										98										482																																																											
HQ										21										5.0										4.3										3.0										86										60										99										481																																																											
HQ										22										5.0										4.3										3.0										86										60										100										480																																																											
HQ										23										5.0										4.3										3.0										86										60										101										479																																																											
HQ										24										5.0										4.3										3.0										86										60										102										478																																																											
HQ										25										5.0										4.3										3.0										86										60										103										477																																																											
HQ										26										5.0										4.3										3.0										86										60										104										476																																																											
HQ										27										5.0										4.3										3.0										86										60										105										475																																																											



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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'					580.0 ft (NAVD 88)					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 Grainger/Mass/Bonnie					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	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											
								109.5				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'				
HQ	17	5.0	4.5	1.8	90	36		110		470											
								111		469		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' 90°, J, T, No, No, PI, SR @ 112.0-113.0' (two orthogonal joints)									
								112		468		fractured @ 112.7-113.0' 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'									
								113		467											
								114		466											
								115		465		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'									
								116		464											
HQ	18	5.0	4.6	2.8	92	56		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' anhydrite vein @ 115.6-115.8' anhydrite beds @ 116.1-116.6' 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' gray @ 117.7-118.0'									
								118		462											
								119		461											
								119.5									Run 14 core loss @ 119.5-121.6'				
								120		460											



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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													
SAMPLING										LOGGED BY G.D. Lee TB for Grainger/Mass/Bonnie TB										CHECKED BY TB Dogbey/Bonnie TB										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		PERCENT RECOVERY		RQD																															
HQ		19		6.0		3.4		0.0		57		0		120				460				anhydrite vein @ 118.0-118.3' anhydrite vein @ 119.3' dolomite & dolomitic shale bed; gray & brown; very fine grained; slightly weathered; strong; hard @ 121.6-122.0' 50°, J, Ca, Pa, PI, SR @ 121.6'																					
														121				459				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). DOLOMITE; light brownish gray; micritic; fresh; strong; hard; banded; w/anhydrite veins & interbedding; (Salina Group - Unit F). 80°, J, Cl, Pa, PI, SR @ 123.0-123.6' dolomite beds; gray; micritic; fresh; strong; hard @ 123.4-123.5', 124.3-124.6'																					
														122				458				DOLOMITE; argillaceous; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 0°, B, J, Ca, Pa, PI, SR @ 124.5' limestone bed; pitted; argillaceous; very dark gray; very fine grained; slightly weathered; strong; hard @ 124.6-125.0'																					
														123				457				DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F). limestone; argillaceous; gray; micritic; fresh; strong; hard @ 126.5-126.8' 0°, B, VN, No, No, PI, SR @ 126.8', 127.7', 128.8' dolomite @ 126.8-127.1' claystone; highly weathered @ 127.1-127.5'																					
														124				456				DOLOMITE; (Salina Group - Unit F) 70°, J, T, No, No, PI, SR @ 127.6-127.8'																					
														125				455				CLAYSTONE; highly fractured; (Salina Group - Unit F)																					
														126				454				DOLOMITE & CLAYSTONE; argillaceous; dark gray to gray; micritic; fresh to slightly weathered; strong to weak; hard to low hardness; (Salina Group - Unit F). dolomite band @ 128.6-128.8' claystone band @ 128.8-129.0 dolomite @ 129.0-129.3' 60°, J, T, No, No, PI, SR @ 130.8-130.9'																				Core box #8 starts @ 125.5'.	
														127				453				CLAYSTONE; (Salina Group - Unit F) limestone band @ 131.9-132.0'																					
														128				452				DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). 60°, J, VN, No, No, PI, SR @ 132.1-133.3' 0°, B, VN, No, No, PI, SR @ 132.1', 132.7', 132.8', 133.0', 133.4' 134.4'																					
														129				451				slightly weathered @ 132.3-132.6'																					
														130				450																									
														131				449																									
														132				448																									
														133				447																									
														134				446																									
														135				445																									



BORING LOG

SHEET 10 OF 10

5/8/2008 10:14 AM DTE - Fermi 3 Geotech

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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'		581.1 ft (NAVD 88)		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>TB for</i> Grainger/Mass		CHECKED BY <i>TB for</i> Dogbey/Mass		APPROVED BY <i>EM</i> Meyer			
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					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG		CLASSIFICATION OF MATERIALS			REMARKS			
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		577	4.0					Below 4.0' continued w/4" ID sonic continuous sampler w/ nominal 6" temporary steel casing advanced w/sampler.			
5		576									
6		575									
7	S	574			2.0						
8		573						Discrete sample SC-1 collected @ 7.8-8.2'.			
9		572									
10		571	10.0								
11		570									
12		569									
13	S	568			3.0						
14		567						Discrete sample SC-2 collected @ 13.9-14.2.			
15											

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BORING LOG

BORING NO. RB-C12

SHEET 2 OF 13

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6043.5'				E 4606.5' 581.1 ft (NAVD 88)				178.1 (feet)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Paved parking lot						Plant				08/24/07		08/28/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Grainger/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 RECOVERY	PERCENT RECOVERY	RQD									
							15		566		HCI; 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 & 4½" 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			
			27.0				28		553						
S	8					3.0	29		552		DOLOMITE; gray; micritic (crystalline); slightly weathered; very strong; hard; (Bass Islands Group).				
							30		551						



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BORING LOG

BORING NO. RB-C12

SHEET 3 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'		581.1 ft (NAVD 88)		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>				
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						
			30.5				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'.
HQ	1	4.5	3.3	0.8	73	18	31		550		highly fractured @ 31.7-32.3'	
							32		549			
							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			
							35		546		90°, J, No, No, PI, SR @ 34.7-34.9'	
			35.0				36		545		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'	
							37		544		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'	
HQ	2	5.0	5.0	3.2	100	64	38		543		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'	
							39		542		60°, J, No, No, PI, SR @ 36.7-36.9' 0°, B, No, No, PI, SR @ 37.2'	
							40		541		0.3" diameter vugs @ 40.5-40.7' 0°, B, UK, FI, PI, SR @ 40.5'	
			40.0				41		540			
							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'.
HQ	3	5.0	5.0	3.0	100	60	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										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6043.5'					E 4606.5'					581.1 ft (NAVD 88)					178.1 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Paved parking lot										Plant					08/24/07					08/28/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										TB for Grainger/Mass					TB for Dogbey/Mass					TB for 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																							
HQ	4	5.0	45.0					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																					
HQ	5	5.0	50.0					49		532		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'																	
							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	argillaceous dolomite @ 51.9-52.0' 0°, B, No, No, PI, SR @ 52.0'																				
							52	529	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'																				
HQ	6	5.0	55.0					53		528		claystone parting; black; micritic; fresh; strong; hard @ 54.4'																	
							54	527	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, CI, 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) grades w/stylolites @ 58.1'										No drilling fluid return @ 55.0'. Drill chatter @ 55.5'.										
							55	526																					
							56	525																					
HQ	6	5.0	55.0					57		524																			
							58	523																					
							59	522	shale parting - 0°, B, PI, SR @ 58.9'																				
							60		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' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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>Boyer</i> Grainger/Mass										CHECKED BY <i>Boyer</i> Dogbey/Mass										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																			
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, PI, SR @ 59.2', 59.4' (2), 59.5', 59.7' 50° J, Ca, Pa, PI, SR @ 59.5-59.6' highly fractured @ 59.8-60.0' shale parting - 0° B, PI, SR @ 60.1' 90° J, No, No, PI, SR @ 60.3-60.6' shale partings @ 60.8-60.9' 90° J, No, No, PI, SR @ 61.5-61.9' 0° B, No, No, PI, SR @ 61.5, 61.6', 61.8', 62.0', 62.2', 62.3' highly fractured @ 62.2-62.3' 40° J, Ca, Pa, PI, SR @ 62.8-63.0' 30° J, No, No, PI, SR @ 63.4-63.5' 100° J, Ca, Fi, PI, SR @ 63.4-63.6' 30° J, Ca, Pa, PI, SR @ 63.7-63.8'																																							
HQ	8	5.0	5.0	4.4	100	88	65		516		grades grayish brown @ 65.5'																																							
							66		515		0° J, No, No, PI, R @ 66.0'																																							
							67		514		60° J, T, Ca, Fi, PI @ 66.6-67.1' 60° J, Cl, Pa, PI, SR @ 66.9-67.3'																																							
							68		513		0° B, UK, Fi, PI, SR @ 68.1'																																							
							69		512		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, PI, SR @ 69.8'																																							
							70		511																						Drill chatter @ 70.0'. Water level @ 20.6' prior to drilling on 08/27/07.																			
							71		510																																									
HQ	9	5.0	5.0	2.1	100	42	72		509		90° J, No, No, WA, SR @ 71.3-73.6' 0° B, UK, Fi, PI, SR @ 71.4', 71.5'																																							
							73		508		DOLOMITE; light brownish gray; micritic; slightly weathered; strong; hard; w/widely spaced stylolites; (Bass Islands Group). 0° B, UK, Fi, PI, SR @ 71.9' 90° J, T, PI @ 72.7-72.9'																				Core box #4 starts @ 72.4'.																			
							74		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'																																							
							75																																											

BLACK & VEATCH

BORING LOG

BORING NO. RB-C12

SHEET 6 OF 13

CLIENT		PROJECT		PROJECT NO.									
Detroit Edison		Fermi 3 COL Application		147483									
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)									
Monroe, MI		N 6043.5'		581.1 ft (NAVD 88)									
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START									
Paved parking lot		Plant		08/24/07									
SAMPLING		LOGGED BY		CHECKED BY									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>		SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	T.B. for Grainger/Mass		T.B. for Dogbey/Mass	
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY						
CORING		APPROVED BY		REMARKS									
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY								
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS									
HQ	10	5.0	5.0	1.6	100								
75.0													
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		75.4 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		76.2 DOLOMITE; argillaceous; grayish brown; very fine grained (crystalline); fresh to slightly weathered; strong; hard; w/stylolites; (Bass Islands Group). pitted @ 77.5-78.3'									
78		503		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'									
79		502		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'									
80		501		20°, J, Cl/Ca, Fi, PI, SR @ 84.7-84.8'									
81		500		84.9 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'									
82		499		10°, J, Cl, Pa, PI, SR @ 86.4' brecciated (healed) w/lenses & convoluted bands of shale @ 86.5-86.8'									
83		498		86.8 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'									
84		497		0°, B, UK, Fi, PI, SR @ 88.9', 89.1' 80°, J, No, No, PI, SR @ 89.3-90.0'									
85		496											
86		495											
87		494											
88		493											
89		492											
90													

Core box #5 starts @ 86.4'.

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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)										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 Grainger/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																															
HQ		13		5.0		5.0		2.9		100		58		90				491				<p>highly fractured @ 90.5-91.1'</p> <p>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'</p> <p>80°, J, No, No, PI, SR @ 94.5-94.8'</p>																					
HQ		14		5.0		5.0		2.8		100		56		95				486				<p>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'</p> <p>brecciated (healed) @ 98.4-98.5', 99.0-99.1' 40°, J, No, No, PI, S @ 98.4-98.5'</p>																					
HQ		15		5.0		5.0		4.3		100		86		100				481				<p>70°, J, Ca, Cl, Pa, PI, SR @ 99.7-100.3' shale partings - 0°, B, WA, SR @ 99.9'</p> <p>60°, J, Ca, Pa, PI, SR @ 100.5' 90°, J, No, No, PI, SR @ 100.5-100.7'</p> <p>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'</p> <p>0°, J, No, No, PI, SR @ 103.7' grades brecciated (healed) w/convoluted shale partings @ 103.7'</p>																				Core box #6 starts @ 100.0'.	

BLACK & VEATCH

BORING LOG

BORING NO. RB-C12

SHEET 8 OF 13

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6043.5'					E 4606.5'					581.1 ft (NAVD 88)		178.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Paved parking lot										Plant					08/24/07		08/28/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Grainger/Mass					Dogbey/Mass					Meyer	
SAMPLING										CORING											
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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' E 4606.5'					GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)					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>				
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	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	126		455		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'													
							127		454		0° B, CI, Fi, PI, SR @ 127.0', 127.8', 127.9', 128.3'													
							128		453		highly fractured @ 128.0-129.0'													
							129		452		90° J, CI, Fi, PI, SR @ 128.1-128.5', 128.7-128.9'													
							130		451		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'								
							131		450															
							132		449															
HQ	21	5.0	2.8	0.9	56	18	133		448		highly fractured @ 132.6-133.1'													
							134		447		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'													
							135		446		limestone bands; dark greenish gray; pitted; micritic; slightly weathered; strong; hard @ 132.9-133.2', 133.4-133.6'													
											70° J, Ca, Fi, PI, SR @ 133.1-133.3'													



BLACK & VEATCH

BORING LOG

BORING NO. RB-C12

SHEET 10 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 581.1 ft (NAVD 88) 178.1 (feet)																																																																																																																																																					
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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). highly fractured @ 136.3-136.6', 137.5-137.9'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>0°, B, CI, Fi, PI, SR @ 138.4'</td> <td>Core loss @ 140.0-141.0'</td> </tr> <tr> <td>HQ</td> <td>23</td> <td>5.0</td> <td>4.0</td> <td>1.0</td> <td>80</td> <td>20</td> <td></td> </tr> <tr> <td>140</td> <td></td> <td>441</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>141</td> <td></td> <td>440</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>142</td> <td></td> <td>439</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>143</td> <td></td> <td>438</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>90°, J, CI, Pa, PI, SR @ 143.0-143.2'</td> <td></td> </tr> <tr> <td>144</td> <td></td> <td>437</td> <td></td> <td>DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).</td> <td>Discrete sample 8-A collected @ 144.0-144.8'</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Core loss @ 145.0-145.1'</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>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'</td> <td></td> </tr> <tr> <td>HQ</td> <td>24</td> <td>5.0</td> <td>4.9</td> <td>0.5</td> <td>98</td> <td>10</td> <td></td> </tr> <tr> <td>145</td> <td></td> <td>436</td> <td></td> <td>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; 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fresh; strong; hard; (Salina Group - Unit F). 90°, J, Ca, Fi, PI, SR @ 134.1-134.5'		138		443		grades bluish gray @ 134.6'						30°, J, No, No, PI, SR @ 134.6-134.8', 134.8-135.0'						highly fractured @ 134.7-135.0'		139		442		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). highly fractured @ 136.3-136.6', 137.5-137.9'						0°, B, CI, Fi, PI, SR @ 138.4'	Core loss @ 140.0-141.0'	HQ	23	5.0	4.0	1.0	80	20		140		441					141		440					142		439					143		438									90°, J, CI, Pa, PI, SR @ 143.0-143.2'		144		437		DOLOMITE; argillaceous; & SHALE; dolomitic; greenish gray & gray; laminated; micritic to very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).	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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' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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> TB for										CHECKED BY <i>Dogbey/Mass</i> TB for										APPROVED BY <i>E 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	PERCENT RECOVERY	RQD																																													
HQ	25	5.0	4.7	1.4	94	28						<p>gray; highly weathered; weak; low hardness @ 147.4-147.6'</p> <p>highly fractured @ 147.7-148.4, 149.4-149.7'</p> <p>60° J, CI, FI, PI, SR @ 149.0-149.2'</p> <p>highly weathered; weak to extremely weak; low hardness to friable @ 151.4-151.6'</p> <p>0° J, CI, FI, PI, SR @ 151.6'</p> <p>highly fractured @ 153.9-154.3'</p> <p>60° J, CI, FI, PI, SR @ 153.9-154.3'</p> <p>SHALE; dolomitic; dark gray; laminated; very fine grained; moderately weathered; moderately strong; moderately hard; (Salina Group - Unit F).</p> <p>highly fractured @ 155.7-156.3'</p> <p>DOLOMITE; argillaceous; dark gray; micritic; slightly weathered; strong; hard; (Salina Group - Unit F). claystone bed; dolomitic @ 157.2-157.5'</p> <p>0° B, CI, Pa, PI, SR @ 157.9', 158.0', 158.1', 158.3', 158.7', 158.8'</p> <p>80° J, CI, Pa, PI, SR @ 158.3-158.6' (2)</p> <p>highly fractured @ 162.0-162.5'</p> <p>greenish gray & dark greenish gray, banded @ 162.5-163.0'</p>																				<p>Core box #9 starts @ 150.0'.</p> <p>Discrete sample 9-A collected @ 152.4-153.2'.</p> <p>Core loss throughout @ 155.0-175.0'.</p> <p>Soft drilling @ 163.0-165.0'.</p>																			



BLACK & VEATCH

BORING LOG

BORING NO. RB-C12

SHEET 12 OF 13

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																			
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HQ										28										5.0										2.2										0.8										44										16										165.0										165										416										<p>highly fractured @ 167.8-168.3'</p> <p>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'</p>										<p>Core loss @ 165.0-167.8'.</p> <p>Core loss throughout @ 170.0-175.0'.</p>									
HQ										29										2.5										1.0										0.0										40										0										170.0										170										411																													
HQ										30										2.5										1.3										0.0										52										0										172.5										172										409																													
HQ										31										2.5										2.5										1.3										100										52										175.0										173										408																													
HQ										32										2.5										2.5										1.3										100										52										177.5										174										407										<p>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'</p> <p>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'</p> <p>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;</p>										<p>Core box #10 starts @ 175.0'.</p> <p>Discrete sample 10-A collected @ 176.0-177.0'.</p> <p>Bottom of boring @ 178.1'. Water level @ 20.4' @ completion of drilling. The extra 0.6' may be due to material wash</p>									
HQ										33										2.5										2.5										1.3										100										52										177.5										175										406																													
HQ										34										2.5										2.5										1.3										100										52										177.5										176										405																													
HQ										35										2.5										2.5										1.3										100										52										177.5										177										404																													
HQ										36										2.5										2.5										1.3										100										52										177.5										178										403										<p>Bottom of boring @ 178.1'. Water level @ 20.4' @ completion of drilling. The extra 0.6' may be due to material wash</p>																			
HQ										37										2.5										2.5										1.3										100										52										177.5										179										402																													
HQ										38										2.5										2.5										1.3										100										52										177.5										180										401																													



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' E 4606.5'										GROUND ELEVATION (DATUM) 581.1 ft (NAVD 88)										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>																															
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																																									
														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																																											
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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' 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 Grainger/Bonnie <i>TJB</i>										CHECKED BY Dogbey/Bonnie <i>TJB</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			
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD																																	
TW		3										1.5		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). grades LL=24, PL=13 laminated dark grayish brown & gray @ 19.5' 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'. Scattered cobbles @ 26.0-27.5'. Auger refusal @ 27.5'. Set nominal 4" temporary steel casing to 29.0'. Below 27.5' continued w/triple tube wire line core barrel																							
SPT		4		8		14		15		29		1.2		16				564																											
														17				563																											
														18				562																											
														19				561																											
														20				560																											
														21				559																											
														22				558																											
												15		23				557																											
														24				556																											
SPT		5		9		11		16		27		1.5		25				555																											
														26				554																											
														27				553																											
														28				552																											
														29				551																											
HQ		1		3.7		2.7		1.3		73		35		30																															



BLACK & VEATCH

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' 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 Grainger/Bonnie TB				CHECKED BY Dogbey/Bonnie TB				APPROVED BY Meyer FM	
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	2	5.0	4.9	3.5	98	70		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'	
								34				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	5.0	5.0	4.8	100	96		40				black shale band @ 38.4'	Core box #2 starts @ 41.2'.
								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'	
								45				0°, J, N, No, No, WA, SR @ 44.5'	

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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' 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>Granger/Bonnie TB</i>					CHECKED BY <i>Dogbey/Bonnie TB</i>					APPROVED BY <i>Meyer</i>				
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY																	
CORING								DEPTH (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		535														
			46.2					46		534			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		533			breccia @ 48.2-48.4'											
								49		532			90°,J,T,No,No,WA @ 49.3-49.6'											
								50		531														
								51		530														
			51.2					52		529			60°,J,VN,No,No,St/lr,R @ 51.8-52.1'											
								53		528			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		527			DOLOMITE; light gray & dark gray, mottled; micritic; fresh; strong; moderately hard; (Bass Islands Group).											
								55		526			DOLOMITE; crystalline; brown; micritic; fresh; strong; hard; pitted; (Bass Islands Group).											
								56		525			black shale band @ 54.55-54.6'											
			56.2					57		524								Core box #3 starts @ 56.2'						
								58		523			anhydrite filled vug @ 57.8'											
HQ	7	5.0	5.0	4.6	100	92		59		522			0°,J,VN,No,No,PI,R @ 58.0'											
								60		521			20°,J,VN,UK,Pa,PI,SR @ 58.7'											
													90°,J,T,No,No,WA @ 59.3-59.6'											

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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' 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 Grainger/Bonnie TB		CHECKED BY Dogbey/Bonnie TB		APPROVED BY Meyer EM	
SAMPLE TYPE	SAMPLE NUMBER	1ST 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		
								DEPTH (FEET)	SAMPLE TYPE
								ELEVATION (FEET)	GRAPHIC LOG
								CLASSIFICATION OF MATERIALS	
								REMARKS	

HQ	8	5.0	4.9	3.8	98	76	60	520	0°,J @ 60.1', 61.4'	
			61.2				61	519		
							62	518	0°,J @ 62.4'	
							63	517	DOLOMITE; light yellowish brown; micritic; fresh; strong; hard; (Bass Islands Group). 0°,J,Ir @ 62.9', 64.4'	
							64	516		
							65	515	0°,J @ 65.4'	
							66	514		
			66.2				67	513	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	68	512	DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group).	
							69	511	60°,J,VN,No,No,WA,SR @ 69.0-69.3'	
							70	510		
							71	509	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,Ir,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'	
							72	508		
							73	507	grades grayish brown; w/o stylolites @ 73.0'	
HQ	10	5.0	4.9	0.95	98	19	74	506	90°,J,N,No,No,St @ 73.5-74.3'	
							75		0°,J,N,No,No,Ir,R @ 74.6', 74.7'	

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Water level @ 10.3' prior to drilling on 06/16/07.

Core box #4 starts @ 66.24'.

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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' 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</i> Grainger/Bonnie TB		CHECKED BY <i>P. Dogbey</i> Dogbey/Bonnie TB		APPROVED BY <i>F. Meyer</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													
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	RECOVERY	PERCENT RECOVERY	RQD						
HQ	11	5.0	4.0	0.9	80	18		75				0°, J, N, No, No, Ir, R @ 75.2'	
			76.2					76				60°, J, VN, UK, Sp, Ir @ 76.0'	
								77				fractured @ 76.2-77.7'	
								78				0°, J, N, No, No, Ir, R @ 76.8'	
								79					
								80					
								81					
			81.2					82				45°, J, T, No, No, Ir, R @ 81.4'	
								83				30°, J, T, No, No, Ir, R @ 81.8'	
								84				60°, J, T, No, No, Ir, R @ 82.2'	
								85					
								86					
			86.2					87					
								88					
								89					
								90					
HQ	13	5.0	5.0	5.0	100	100						0°, J, T, UK, Sp, Ir @ 88.5'	
												DOLOMITE; crystalline; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group).	

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Core box #5 starts @ 81.2'.

-88.6-

CLIENT										PROJECT										PROJECT NO.									
Detroit Edison										Fermi 3 COL Application										147483									
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH														
Monroe, MI					N 6384.1'					E 4177.5'					580.7 ft (NAVD 88)					271.2 (feet)									
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED									
Gravel parking lot										Plant					06/13/07					06/20/07									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
										Grainger/Bonnie TB					Dogbey/Bonnie TB					Meyer sm									
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY									
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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' E 4177.5'										GROUND ELEVATION (DATUM) 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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Granger/Bonnie</i> ^{TB}										CHECKED BY <i>Dogbey/Bonnie</i> ^{TB}										APPROVED BY <i>Meyer</i>											
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											
HQ 17 5.0 5.0 2.2 100 44										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																				60°, J, T, No, No, PI, R @ 105.5-105.7', 107.6-107.8' 0°, J, T, No, No, St @ 105.7' 0°, J, T, No, No, PI, R @ 107.1' 90°, J, T, No, No, WA, R @ 107.2-107.75' 0°, J, T, No, No, PI, R @ 108.2', 108.3', 108.7' 0°, J, T, No, No, PI, R @ 109.0', 109.6' 60°, J, T, No, No, PI, R @ 109.7-109.9' DOLOMITE; gray; micritic; fresh; strong; hard; massive; (Bass Islands Group). 0°, J, T, No, No, PI, R @ 110.1' 60°, J, T, No, No, PI, R @ 110.2-110.4', 110.7-110.9' 0°, J, T, No, No, PI, R @ 111.4', 112.1', 112.3' 90°, J, T, No, No, WA, R @ 111.5-112.2' 90°, J, T, No, No, WA, R @ 112.3-113.6' 0°, J, T, No, No, PI, R @ 112.9' 0°, J, T, No, No, PI, R @ 113.6' 0°, J, VN, UK, Sp, PI, R @ 114.6' 0°, J, T, No, No, PI, R @ 115.4' grades banded w/shale partings @ 115.5' 90°, J, T, No, No, WA, R @ 116.2-116.6' 60°, J, T, No, No, PI, R @ 116.8-117.1' 0°, J, T, No, No, PI, R @ 117.0', 117.15', 117.4' DOLOMITE; argillaceous; light yellowish brown; micritic; fresh; hard; (Bass Islands Group). 90°, J, T, No, No, WA, R @ 117.5-117.9' 0°, J, T, No, No, PI, R @ 117.9', 118.2'										Core box #7 starts @ 109.0'.	
HQ 18 5.0 4.9 2.75 98 55																																									
HQ 19 5.0 5.0 3.2 100 64																																									



BLACK & VEATCH

BORING LOG

BORING NO. RW-C1

SHEET 9 OF 19

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																			
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SHEET 10 OF 19

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135		135.2		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		136.2		fractured @ 136.2-137.2' LIMESTONE; very dark gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																																																																																																																																																																																																
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**BLACK & VEATCH****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</i> /Bonnie ⁷¹³			CHECKED BY <i>B. Dogbey</i> /Bonnie ^{TB}		APPROVED BY <i>F. 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							
							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		90°, J, T, No, No, St, SR @ 160.9'		
			161.2				163		418		CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F).		
							164		417		90°, J, T, No, No, St, SR @ 163.4-163.5'		
HQ	28	5.0	3.0	0.4	60	8	165		416		DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).		

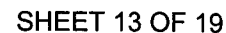
4/29/2008 3:53 PM DTE - Fermi 3 Geotech

**BLACK & VEATCH****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' E 4177.5'										GROUND ELEVATION (DATUM) 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 SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>Boyle</i> Grainger/Bonnie ^{TB}										CHECKED BY <i>Boyle</i> Dogbey/Bonnie ^{TB}										APPROVED BY <i>Boyle</i> Meyer ^{EM}																			
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																			
HQ 29 5.0 3.3 0.0 66 0										165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180										415 414 413 412 411 410 409 408 407 406 405 404 403 402 401										CLAYSTONE; gray; slightly weathered; weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F). CLAYSTONE; gray; slightly weathered (no discoloration); weak; low hardness; (Salina Group - Unit F). DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).										Core box #10 starts @ 166.2'.									



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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' E 4177.5'		GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)	
SURFACE CONDITIONS Gravel parking lot			COORDINATE SYSTEM Plant	DATE START 06/13/07	DATE FINISHED 06/20/07

SAMPLING			LOGGED BY <i>Boyer</i> Grainger/Bonnie TB	CHECKED BY <i>Boyer</i> Dogbey/Bonnie TB	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	35	5.0	0.2	0.0	4	0	195		385			
							196		384			
			196.2				197		383			
							198		382			
							199		381			
							200		380			
							201		379			
HQ	36	2.5	1.5	0.0	60	0	202		378		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'	
							203		377		LIMESTONE; vuggy; dark brown; micritic; fresh; very strong; hard; (Salina Group - Unit F).	
			203.7				204		376			Water pressure on rig spiked
HQ	37	2.5	1.0	0.0	40	0	205		375		30°, J, VN, No, No, PI, R @ 205.8'	Core box #11 starts @ 205.5'.
							206		374			
			206.2				207		373		DOLOMITE; shaley; light yellowish brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).	
HQ	38	2.5	1.3	0.0	52	0	208		372		CLAYSTONE; light gray; soft; (Salina Group - Unit F).	
							209		371		CLAYSTONE; gray; (Salina Group - Unit F).	
			208.7				210				LIMESTONE; dark gray; micritic; fresh; moderately strong; moderately hard; (Salina Group - Unit F).	Water level @ 23.9' prior to drilling on 06/20/07.

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BORING LOG

BORING NO. RW-C1

SHEET 15 OF 19

CLIENT		PROJECT				PROJECT NO.						
Detroit Edison				Fermi 3 COL Application				147483				
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Monroe, MI			N 6384.1' E 4177.5'			580.7 ft (NAVD 88)		271.2 (feet)				
SURFACE CONDITIONS				COORDINATE SYSTEM		DATE START		DATE FINISHED				
Gravel parking lot				Plant		06/13/07		06/20/07				
SAMPLING				LOGGED BY		CHECKED BY		APPROVED BY				
				Grainger/Bonnie		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												
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					
							212					
HQ	40	2.5	2.2	0.8	88	32	213				LIMESTONE; dark gray; micritic; fresh; moderately strong; hard; vuggy; (Salina Group - Unit F).	
							214					
							215				grades dark grayish brown @ 214.0'	
HQ	41	2.5	1.9	0.4	76	16	216				90°,J,T,No,No,WA,R @ 214.2-214.8'	
							217					
							218					
							219					
HQ	42	5.0	3.5	0.8	70	16	220				DOLOMITE; shaley; light brownish gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit F).	
							221				0°,J,T,No,No,PI,R @ 219.0', 219.3', 219.4'	
							222				45°,J,T,No,No,PI,S @ 219.6-219.7', 219.8-219.9'	
							223				black shale @ 220.2-220.5'	
							224				90°,J,T,No,No,WA,R @ 220.5-220.7'	
							225				DOLOMITE; gray & black; fresh; strong; hard; thin to medium bedded; (Salina Group - Unit F).	
							226					
							227				LIMESTONE; dark grayish brown; micritic; moderately strong; hard; (Salina Group - Unit F).	
							228					
							229					
							230					
HQ	43	5.0	2.8	0.7	56	14	231				DOLOMITE; shaley; pale brown; micritic; fresh; strong; hard; massive; (Salina Group - Unit F).	
							232					
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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' E 4177.5'				GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)			
SURFACE CONDITIONS Gravel parking lot				COORDINATE SYSTEM Plant				DATE START 06/13/07		DATE FINISHED 06/20/07	
LOGGED BY <i>Boyle</i> Grainger/Bonnie ^{7B}				CHECKED BY <i>Boyle</i> Dogbey/Bonnie ^{7B}				APPROVED BY <i>Boyle</i> Meyer ^{EM}			

SAMPLING								DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	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	RQD						
								225				LIMESTONE; brown; micritic; fresh; strong; hard; (Salina Group - Unit F).	Core box #12 starts @ 225.5'.
								226					
			226.2										
								227					
								228					
								229					
HQ	44	5.0	2.5	0.7	50	14		230					
								231					
								232					
								233					
								234					
								235					
								236					
								237					
								238					
								239					
								240					

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BORING LOG

BORING NO. RW-C1

SHEET 17 OF 19

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6384.1'				E 4177.5'				580.7 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Gravel parking lot						Plant				06/13/07		06/20/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Granger/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 RECOVERY	PERCENT RECOVERY	RQD									
HQ	47	2.5	0.0	0.0	0	0	240								
							241								
HQ	48	2.5	0.1	0.0	4	0	242								
							243								
HQ	49	2.5	0.3	0.0	12	0	245								
							246								
HQ	50	2.5	0.7	0.0	28	0	248								
							249								
HQ	51	2.5	1.9	0.4	76	16	250								
							251								
HQ	52	5.0	3.5	0.7	70	14	254								
							255								

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BORING LOG

BORING NO. RW-C1

SHEET 18 OF 19


CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6384.1' E 4177.5'		580.7 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Gravel parking lot		Plant		06/13/07	
SAMPLING		LOGGED BY		CHECKED BY	
		Granger/Bonnie		Dogbey/Bonnie	
APPROVED BY					
Meyer					
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
255				50°, J, T, No, No, PI, SR @ 254.9-255.1'	
				0°, J, T, No, No, PI, R @ 255.0', 255.5'	
256					
257					
258					
259				90°, J, T, No, No, WA, R @ 258.5-259.0'	
260				10°, J, T, No, No, PI, SR @ 259.3', 259.8', 260.0'	
261				0°, J, T, No, No, PI, SR @ 260.5', 260.9'	
262					
263				90°, J, T, No, No, PI, S @ 263.1'	
264				DOLOMITE; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit E). grades light brownish gray @ 263.9'	
265				anhydrite band @ 263.95-264.1'	
266				20°, J, T, No, No, PI, S @ 264.15, 264.6'	
				90°, J, VN, No, No, WA, S @ 264.7', 265.3'	
				anhydrite band @ 265.3'	
				grades gray @ 265.4'	
267				black shale band; hard @ 266.9-267.1'	
				grades light brownish gray @ 267.1'	
268				0°, V, VN, anhydrite, Fi, PI @ 267.4', 267.6', 267.7', 268.3'	
269				90°, J, VN, No, No, WA, SR @ 267.8', 268.0', 269.1', 270.2'	
				anhydrite band @ 268.5-268.6'	
				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' E 4177.5'						GROUND ELEVATION (DATUM) 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>[Signature]</i> Grainger/Bonnie TB						CHECKED BY <i>[Signature]</i> Dogbey/Bonnie TB						APPROVED BY <i>[Signature]</i> 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 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																									
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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' E 4312.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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>ECA</i> Grainger/Ang/Bonnie TB										CHECKED BY <i>for</i> Dogbey/Bonnie TB										APPROVED BY <i>sm</i> Meyer																															
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET</th> <th>6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET	6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	<table border="1"> <tr> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										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	PERCENT RECOVERY	RQD																																																							
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)																																																											
GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																											
																				<p>0</p> <p>1 580</p> <p>2 579</p> <p>3 578</p> <p>4 577</p> <p>5 576</p> <p>6 575</p> <p>7 574</p> <p>8 573</p> <p>9 572</p> <p>10 571</p> <p>11 570</p> <p>12 569</p> <p>13 568</p> <p>14 567</p> <p>15 566</p>										<p>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).</p> <p>0.5</p> <p>CONCRETE - 0.8' thick</p> <p>1.3</p> <p>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).</p> <p>6.5</p> <p>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).</p> <p>12.5</p> <p>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).</p> <p>grading to about 100% fines; olive brown; soft; moist</p>										<p>Boring advanced w/vacuum excavation.</p> <p>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'.</p> <p>Discrete sample S2A collected @ 12.5-13.0'. Below 13.0' continued w/NWJ rods & 4½" tricone bit using bentonite mud as drilling fluid.</p>																					
S 1										NR																																																			
S 2										NR																																																			
SPT 3										WOHWOH 1 1 1.1																																																			



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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' E 4312.0'				GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)				
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 fm</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
CORING												
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD						
SPT	4	1	2	2	4	1.3	15					SPT performed w/D-50 automatic hammer. PP = 1.25 TSF @ 14.5'.
							16		565			
							17		564			PP = 2.0 TSF @ 17.0'.
							18		563			
TW	5					0.7	19		562		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; light olive brown; firm; moist; homogeneous; (Glacial Till).	
							20		561			
							21		560			
SPT	6	51	33	17	50	0.7	22		559		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'.
							23		558			
							24		557			
SPT	7	7	16	29	45	1.4	25		556		grades dark gray @ 24.5'	PP > 4.5 TSF @ 24.0'.
							26		555			
							27		554			
SPT	8	14	19	20	39	1.5	28		553		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'.
							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	
SPT	9	22	17	54/3"	50+	1.1	30		551			Below 29.7'

**BLACK & VEATCH****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 580.9 ft (NAVD 88) 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</i> <i>EVA</i> Grainger/Ang/Bonnie ^{TB}										CHECKED BY <i>F. J. For</i> Dogbey/Bonnie ^{TB}										APPROVED BY <i>For</i> Meyer																																																	
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HQA										1										2.6										2.6										2.4										100										92																			
HQA										2										2.0										1.9										1.8										95										90																			
HQA										3										5.0										5.0										4.2										100										84																			



BLACK & VEATCH

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) 580.9 ft (NAVD 88)				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 Grainger/Ang/Bonnie ^{TS}				CHECKED BY Dogbey/Bonnie ^{TS}				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							
			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'		
HQ	4	5.0	5.0	1.35	100	27	48	533			0°,B,T,No,No,PI,SR @ 47.1', 47.2'		
							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).		
			50.6				52	529			shale partings - 0°,B,VN,PI,SR @ 48.4', 48.5'		
							53	528			0°,B,T,No,No,PI,SR @ 49.1', 49.2'		
							54	527			75°,J,T,No,No,PI,SR @ 49.2-49.5', 50.2-50.5'		
							55	526			90°,J,T,No,No,PI,SR @ 49.7-49.9'		
							56	525			fossils @ 49.8'		
							57	524			DOLOMITE; gray; micritic; fresh; strong; hard; pitted; (Bass Islands Group).		
							58	523			0°,B,No,No,WA,PI,SR @ 50.5', 51.0'		
							59	522			90°,J,T,No,No,PI,SR @ 50.6-51.2'		
							60	521			fractured @ 51.1-51.3'		
											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'		
											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'		

4/16/2008 2:22 PM DTE - Fermi 3 Geotech



BLACK & VEATCH

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' E 4312.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										TOTAL DEPTH 75.5 (feet)																																																																																																																																			
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**BLACK & VEATCH****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' E 4312.0'										GROUND ELEVATION (DATUM) 580.9 ft (NAVD 88)										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>For ECA</i> Grainger/Ang/Bonnie ^{TB}										CHECKED BY <i>for</i> Dogbey/Bonnie ^{TB}										APPROVED BY <i>SM</i> Meyer																																																																															
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BLACK & VEATCH

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'		580.4 ft (NAVD 88)		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 Grainger/Ang/Bonnie		CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer			
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					
CORING											
DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG				CLASSIFICATION OF MATERIALS				REMARKS
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		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.
6		574									
7		573									
8		572									
9		571									
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'. PP = 1.0-2.0 TSF @ 12.0-12.5'. Discrete sample S2A collected @ 13.0-13.5'. Discrete sample S2B collected @
11		569									
12		568									
13		567									
14		566									
15											



BLACK & VEATCH

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' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										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 Grainger/Ang/Bonnie										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		ROD 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						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		17		563						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).																				PP > 4.5 TSF @ 22.0'.																			
TW		6										0.8		18		562						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 1/4"; dark gray; hard; moist; (Glacial Till).																				PP > 4.5 TSF @ 26.0'.																			
SPT		7		14		17		20		57		1.6		19		561						Clayey GRAVEL with Sand (GC) - About 65% fine to coarse, subangular and subrounded; hard gravel w/ max. size 2 1/4"; about 20% fine to coarse, subangular to subrounded sand; about 15% fines; grayish brown; very dense; moist																				Hard drilling @ 27.5'.																			
														20		560						DOLOMITE; crystalline; grayish brown; micritic; fresh;																				Auger refusal @ 29.5'.																			
														21		559																																													
														22		558																																													
														23		557																																													
														24		556																																													
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BLACK & VEATCH

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' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										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 Grainger/Ang/Bonnie										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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG																																									
S		9										6		30								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																																															
														32																																															
														33																																															
														34																																															
														35																																															
														36								DOLOMITE; light brownish gray & dark gray; mottled; micritic; fresh; strong; hard; (Bass Islands Group).																																							
														37																												Driller reported soft material @ 36.9-40.9'.																			
														38																																															
														39																																															
														40																																															
														41								grades w/stylolites @ 40.5'																																							
														42								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'.																			
														43																																															
														44																																															
														45																																															

CLIENT										PROJECT										PROJECT NO.																																																																					
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PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)										TOTAL DEPTH																																																											
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CORING										CORE SIZE										RUN NUMBER										RUN LENGTH										RUN RECOVERY										RQD										PERCENT RECOVERY										RQD																			
HQ										2										5.0										5.0										1.5										100										30																													
HQ										3										5.0										5.0										3.3										100										66																													
HQ										4										5.0										5.0										2.1										100										42																													

**BLACK & VEATCH****BORING LOG**

BORING NO. RW-C3

SHEET 5 OF 8

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																																																																																																																																																					
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Core box #3 starts @ 67.0'	69		511		0°,J,VN,No,No,Ir,SR @ 67.6'		70		510		0°,B,T,No,No,PI,SR @ 68.4'		71		509		gray @ 69.5-69.55'		72		508		DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).		73		507		shale partings - 0°,B,VN,PI,SR @ 70.5', 71.0', 72.4'		74		506		convoluted bedding @ 71.2-72.2'		75				shale partings - 10°,J,VN,PI,R @ 71.4', 71.6', 71.8', 72.0', 72.2'						DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).						shale partings - 0°,B,VN,PI,SR @ 72.9', 73.6', 74.1', 74.2'						90°,J,T,No,No,PI,SR @ 74.3-74.5', 74.5-74.7'						shale parting - 0°,B,VN,PI,SR @ 74.8'	
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68		512		DOLOMITE; oolitic; light brownish gray; very fine grained; fresh; strong; hard; (Bass Islands Group).	Core box #3 starts @ 67.0'																																																																																																																																																																																				
69		511		0°,J,VN,No,No,Ir,SR @ 67.6'																																																																																																																																																																																					
70		510		0°,B,T,No,No,PI,SR @ 68.4'																																																																																																																																																																																					
71		509		gray @ 69.5-69.55'																																																																																																																																																																																					
72		508		DOLOMITE; argillaceous; gray & dark gray, banded; micritic; fresh; strong; hard; w/shale parting; (Bass Islands Group).																																																																																																																																																																																					
73		507		shale partings - 0°,B,VN,PI,SR @ 70.5', 71.0', 72.4'																																																																																																																																																																																					
74		506		convoluted bedding @ 71.2-72.2'																																																																																																																																																																																					
75				shale partings - 10°,J,VN,PI,R @ 71.4', 71.6', 71.8', 72.0', 72.2'																																																																																																																																																																																					
				DOLOMITE; argillaceous; olive gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).																																																																																																																																																																																					
				shale partings - 0°,B,VN,PI,SR @ 72.9', 73.6', 74.1', 74.2'																																																																																																																																																																																					
				90°,J,T,No,No,PI,SR @ 74.3-74.5', 74.5-74.7'																																																																																																																																																																																					
				shale parting - 0°,B,VN,PI,SR @ 74.8'																																																																																																																																																																																					

BLACK & VEATCH

BORING LOG

BORING NO. RW-C3

SHEET 6 OF 8

CLIENT						PROJECT				PROJECT NO.		
Detroit Edison						Fermi 3 COL Application				147483		
PROJECT LOCATION				COORDINATES		GROUND ELEVATION (DATUM)		TOTAL DEPTH				
Monroe, MI				N 6291.9'		E 4177.5'		580.4 ft (NAVD 88)		105.5 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM		DATE START		DATE FINISHED		
Gravel parking area						Plant		06/13/07		07/31/07		
SAMPLING						LOGGED BY		CHECKED BY		APPROVED BY		
						Gramer/Ang/Bonnie		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
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'	
			80.1				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	83		497		0°,B,T,No,No,PI,SR @ 81.8', 82.8', 84.1'	
							84		496		50°,J,T,No,No,Ir,R @ 83.8-84.0'	
			85.1				85		495		fractured @ 84.0-84.5'	Core box #4 begins @ 81.7'.
							86		494		80°,J,T,No,No,Ir,R @ 84.5-84.8'	
							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'	
							89		491		10°,J,VN,No,No,PI,SR @ 88.0'	
							90		490		shale parting @ 88.5'	
										convoluted bedding @ 89.5-89.7'		

**BLACK & VEATCH****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' E 4177.5'										GROUND ELEVATION (DATUM) 580.4 ft (NAVD 88)										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										CHECKED BY <i>EM</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 RECOVERY	PERCENT RECOVERY	RQD																																	
CORING																																							
HQ	11	5.0	4.5	1.9	90	38		90		490		0° B, VN, No, No, PI, SR @ 89.8', 90.0'										90% drilling fluid loss @ 95.0'. Core box #5 starts @ 95.1'. No drilling fluid return @ 100.1'.																	
								91		489		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 90.6-90.8'																											
								92		488		70° J, VN, No, No, PI, SR @ 91.1-91.3' fractured @ 91.2-91.7'																											
								93		487		90° J, T, No, No, PI, SR @ 91.3-91.9'																											
								94		486		shale partings - 70° J, T, PI, SR @ 92.5-92.6'																											
								95		485		SHALE; very dark gray; micritic; slightly weathered; strong; hard; (Bass Islands Group).																											
								96		484		DOLOMITE; light gray & dark gray, mottled; fresh; strong; hard; (Bass Islands Group). grading brecciated, healed; medium to fine grained @ 93.8'																											
								97		483		DOLOMITE; light brownish gray; micritic; fresh; strong; hard; (Bass Islands Group). anhydrite crystals @ 94.1-94.3'																											
								98		482		90° J, T, No, No, PI, SR @ 94.5-94.9'																											
								99		481		0° B, T, No, No, PI, SR @ 97.3' fractured @ 97.5-98.0'																											
								100		480		shale parting @ 99.1'																											
								101		479		90° J, T, No, No, PI, SR @ 99.2-99.9'																											
								102		478		80° J, T, No, No, PI, SR @ 99.5'																											
								103		477		0° B, T, No, No, Ir, R @ 99.6'																											
								104		476		10° J, T, No, No, PI, SR @ 100.4'																											
								105		475		shale parting - 0° B, T, PI, SR @ 100.5'																											
												90° J, T, No, No, PI, SR @ 100.5-101.2'																											
												shale parting - 0° B, T, PI, SR @ 101.2'																											
												shale parting - 10° B, T, PI, SR @ 102.8'																											
												DOLOMITE; argillaceous; light brownish gray; micritic; fresh; strong; hard; w/shale partings and banding; (Bass Islands Group).																											
												shale partings - 0° B, T, WA, SR @ 103.2', 103.5', 105.0'																											
												convoluted bedding @ 104.0-104.6'																											

BLACK & VEATCH

BORING LOG

BORING NO. RW-C3

SHEET 8 OF 8

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6291.9'				E 4177.5'				580.4 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Gravel parking area						Plant				06/13/07		07/31/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Granger/Ang/Bonnie				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	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY									
							105		475			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			
							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								

**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'		580.2 ft (NAVD 88)		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>EA</i> Bonnie/Ang		CHECKED BY 22 <i>FE</i> Dogbey/Bonnie		APPROVED BY TB <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						
							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			
							5		575			
							6		574			
							7		573			
							8		572			
							9		571			
							10		570	Discrete sample S1A collected @ 10.0-11.0'		
							11		569			
							12		568			
							13		567	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 & 4½" tricone bit using bentonite mud	
							14		566			
							15					

**BLACK & VEATCH****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' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 Bonnie/Ang										CHECKED BY EM Dogbey/Bonnie TB										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)		CLASSIFICATION OF MATERIALS										REMARKS									
CORE SIZE		RUN NUMBER		RUN LENGTH		RUN RECOVERY		RQD RECOVERY		PERCENT RECOVERY		RQD		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		CLASSIFICATION OF MATERIALS										REMARKS									
TW		4										1.2		15		565		564		Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; firm; w/trace fine gravel (Glacial Till).										as drilling fluid. SPT performed w/D-50 automatic hammer.									
TW		5										1.9		16		564		563		grades hard; w/trace fine to coarse sand & fine to coarse gravel w/max. size 3/4"										PP = 3.25 to 4.0 TSF @ 18.0'.									
TW		6										1.8		17		563		562		Lean CLAY 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).										PP > 4.5 TSF @ 20.5'.									
TW		7										0.7		18		562		561		PP > 4.5 TSF @ 23.0'.																			
SPT		8		7		12		13		25		1.4		19		561		560																					
SPT		9		17		16		20		36		1.2		20		560		559																					
														21		559		558																					
														22		558		557																					
														23		557		556																					
														24		556		555																					
														25		555		554		Lean CLAY 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).																			
														26		554		553																					
														27		553		552		Gravelly Lean CLAY 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																			
														28		552		551																					
														29		551																							
														30																									

**BLACK & VEATCH****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				
SAMPLING				LOGGED BY <i>TB</i> Bonnie/Ang <i>ECA</i>		CHECKED BY <i>TB</i> Dogbey/Bonnie		APPROVED BY <i>SM</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						
CORING							30		550			
SPT	10	22	14	14	28	1.0	31		549			
			32.5				32		548			
S	11					3.0	33		547			
			35.5				34		546			
							35		545			
S	12					5.0	36		544			
							37		543			
							38		542			
							39		541			
							40		540			
			40.5				41		539			
HQ	1	3.2	1.9	1.3	59	41	42		538			
							43		537			
			43.7				44		536			
							45		536			

Till).

Poorly graded GRAVEL with Clay and Sand (GP-GC) - About 75% fine to coarse, subangular, hard gravel w/max. size 1½"; about 15% medium to coarse, subangular to subrounded sand; about 10% fines; grayish brown; medium dense; wet; (Weathered Rock).

DOLOMITE; crystalline; gray; micritic; fresh; strong; hard; (Bass Islands Group).

BRECCIA; poorly indurated to indurated dolomite matrix; gray; micritic; fresh; strong; hard; w/dolomite clasts; light gray; micritic; fresh; strong; hard; (Bass Islands Group).

fractured @ 42.3-42.7'

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'

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.

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.

**BLACK & VEATCH****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' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 ECA Bonnie/Ang										CHECKED BY TB Dogbey/Bonnie										APPROVED BY Fm Meyer																																																																																																																																	
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N	VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										CORING	CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)										SAMPLE TYPE										ELEVATION (FEET)										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										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' 0°,B,T,No,No,PI,SR @ 45.3', 46.3', 46.5', 46.7' 0°,B,T,No,No,PI,SR @ 47.0', 47.4' 0°,B,T,No,No,PI,SR @ 47.6', 47.8' 20°,J,T,No,No,PI,SR @ 48.15-48.2' fractured @ 48.7-50.6' 50 530 80°,J,T,No,No,PI,SR @ 50.6-50.8' 30°,J,T,No,No,PI,SR @ 50.8-51.0' fractured @ 51.2-51.8' 90°,J,T,No,No,PI,SR @ 51.8-53.7' (2 Joints) 80°,J,T,No,No,PI,SR @ 51.8-52.4' grades light gray @ 51.8' shale partings - 0°,B,VN,PI,SR @ 52.1', 52.6' shale partings - 0°,B,VN,PI,SR @ 53.0', 53.4' 70°,J,T,No,No,PI,SR @ 53.4-53.7'										46										534										47										533										48										532									
HQ										3										5.0										4.3										0.0										86										0										49										531																																																																															
HQ										4										5.0										5.0										3.8										100										76										51										529																																																																															
HQ										5										5.0										5.0										5.8										100										76										52										528																																																																															
HQ										6										5.0										5.0										5.8										100										76										53										527																																																																															
HQ										7										5.0										5.0										5.8										100										76										54										526																																																																															
HQ										8										5.0										5.0										5.8										100										76										55										525																																																																															
HQ										9										5.0										5.0										5.8										100										76										56										524																																																																															
HQ										10										5.0										5.0										5.8										100										76										57										523																																																																															
HQ										11										5.0										5.0										5.8										100										76										58										522																																																																															
HQ										12										5.0										5.0										5.8										100										76										59										521																																																																															
HQ										13										5.0										5.0										5.8										100										76										60																																																																																									

5/8/2008 6:34 PM DTE - Fermi 3 Geotech

Core box #2 starts @ 55.2'

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BORING LOG

BORING NO. RW-C4

SHEET 5 OF 10

CLIENT		PROJECT		PROJECT NO.						
Detroit Edison		Fermi 3 COL Application		147483						
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)						
Monroe, MI		N 6291.9' E 4312.0'		580.2 ft (NAVD 88)						
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START						
Gravel parking lot		Plant		06/13/07						
SAMPLING		LOGGED BY		CHECKED BY						
		Bonnie/And		Dogbey/Bonnie						
APPROVED BY										
Meyer										
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES						
2ND 6 INCHES		3RD 6 INCHES		N VALUE						
SAMPLE RECOVERY										
CORING		DEPTH (FEET)		SAMPLE TYPE						
CORE SIZE		RUN NUMBER		RUN LENGTH						
RUN RECOVERY		RQD		PERCENT RECOVERY						
RQD										
		ELEVATION (FEET)		GRAPHIC LOG						
				CLASSIFICATION OF MATERIALS						
				REMARKS						
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' 90° J,T,No,No,PI,SR @ 62.4-62.5' anhydrite bed @ 62.5-63.0'	
							63	517	DOLOMITE; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group).	
			63.7				64	516		
							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' 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'	
							68	512	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'	
			68.7				69	511	DOLOMITE; grayish brown; micritic; fresh; strong; hard; banded; (Bass Islands Group). 0° B,T,No,No,PI,SR @ 68.6', 68.7' 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' 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'	
HQ	7	5.0	5.0	1.2	100	24	70	510		
							71	509		
							72	508		
							73	507	50° J,T,No,No,PI,SR @ 73.2-73.3' 90° J,T,No,No,PI,SR @ 73.4-73.7'	
			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	506		



BLACK & VEATCH

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' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 ^{TB} ECA										CHECKED BY Dogbey/Bonnie ^{TB}										APPROVED BY Meyer ^{Em}																																																																																																																																																																																																							
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																																																																																																																																																																															
HQ										8										5.0										4.6										3.0										92										60										75										505										<p>0°, B, T, No, No, PI, SR @ 74.5', 75.0'</p> <p>DOLOMITE; 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'</p> <p>30°, J, T, No, No, PI, SR @ 75.3'</p> <p>60°, J, T, No, No, PI, SR @ 76.5', 76.7'</p> <p>0°, J, T, No, No, PI, SR @ 77.6'</p>										76										504										77										503										78										502																																																																															
HQ										9										5.0										5.0										2.9										100										58										79										501																				<p>0°, J, T, No, No, Ir, SR @ 78.95', 80.7', 82.0'</p> <p>fractured @ 82.0-82.5'</p> <p>30°, J, VN, No, No, WA, SR @ 82.5-83.0'</p> <p>20°, J, VN, No, No, Ir, SR @ 82.7-82.9'</p> <p>45°, J, VN, No, No, PI, SR @ 83.1-83.25'</p> <p>fractured @ 83.3-83.6'</p> <p>60°, J, T, No, No, PI, SR @ 93.5-93.7'</p> <p>90°, J, T, No, No, PI, SR @ 83.7-84.0'</p> <p>0°, J, T, No, No, Ir, SR @ 84.4-84.5'</p> <p>shale parting @ 85.1'</p> <p>70°, J, T, No, No, WA, SR @ 85.7-86.2'</p>										80										500										81										499										82										498										83										497																																																	
HQ										10										5.0										5.0										3.7										100										74										84										496																														<p>DOLOMITE; 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'</p> <p>70°, J, T, No, No, PI, SR @ 87.3-87.6'</p> <p>DOLOMITE; 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'</p> <p>90°, J, T, No, No, PI, SR @ 89.2-89.6', 89.9-90.2'</p>										85										495										86										494										87										493										88										492										89										491										90									

5/8/2008 6:34 PM DTE - Fermi 3 Geotech

**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'		580.2 ft (NAVD 88)		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 Bonnie/Ang ECA		CHECKED BY TB Dogbey/Bonnie		APPROVED BY 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						
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'	
											grades light gray @ 91.1'	
							92		488		SHALE; black; (Bass Islands Group).	
											DOLOMITE; light gray; micritic; fresh; strong; hard; banded; (Bass Islands Group).	
							93		487		grades light brownish gray @ 91.9'	
											70°, J, T, No, No, PI, SR @ 92.5-92.8', 91.1-91.3'	
											0°, B, T, No, No, PI, SR @ 92.5', 92.8'	
							94		486		10°, J, T, No, No, PI, SR @ 93.95-94.05, 94.4-94.8', 95.05, 95.1'	
											40°, J, T, No, No, PI, SR @ 94.5-94.8'	
							95		485		fractured @ 94.5-94.8'	
											10°, J, T, No, No, PI, SR @ 95.5'	
							96		484		10°, J, T, No, No, PI, SR @ 96.15'	
							97		483		fractured @ 97.3-97.5'	
							98		482		10°, J, T, No, No, PI, SR @ 98.1'	
							99		481		90°, J, T, No, No, PI, SR @ 98.7-98.9'	
											0°, B, T, No, No, PI, SR @ 98.85'	
											shale partings - 0°, B, VN, PI, SR @ 99.4', 100.9'	
							100		480		slightly brecciated, healed @ 100.1-100.6'	
							101		479		anhydrite filled vug @ 100.7'	
											fractured @ 100.95-101.1'	
							102		478		slightly brecciated, healed @ 101.2-101.4'	
											shale partings - 0°, B, VN, PI, SR @ 101.4', 103.0', 103.1', 103.2'	
							103		477		45°, J, VN, CI, Sp, PI, SR @ 102.2-102.3'	
											80°, J, VN, No, No, PI, SR @ 102.5-103.0'	
							104		476		90°, J, VN, No, No, PI, SR @ 103.0-103.2'	
											20°, J, VN, CI, Sp, PI, SR @ 103.3'	
							105		475		DOLOMITE; argillaceous; dark gray; micritic; fresh; strong; hard; (Bass Islands Group).	

Core box #5 starts @ 98.7'.

**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'		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				
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	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'	
							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'	
							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						PROJECT						SHEET NO.	
Detroit Edison						Fermi 3 COL Application						147483	
PROJECT LOCATION			COORDINATES			GROUND ELEVATION (DATUM)			TOTAL DEPTH				
Monroe, MI			N 6291.9'			E 4312.0'			580.2 ft (NAVD 88)			146.2 (feet)	
SURFACE CONDITIONS						COORDINATE SYSTEM			DATE START		DATE FINISHED		
Gravel parking lot						Plant			06/13/07		08/14/07		
SAMPLING						LOGGED BY TB ECA Bonnie/Ang			CHECKED BY TB Dodgey/Bonnie		APPROVED BY Meyer		
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	
CORING	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		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; (Bass Islands Group). fractured @ 122.0-122.2'		
HQ	18	2.5	0.0	0.0	0	0	124		-456		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'		
							125		-455				
							126		-454				
HQ	19	2.5	0.1	0.0	4	0	127		-453				
							128		-452				
							129		-451				
HQ	20	2.5	0.5	0.0	20	0	130		-450		<u>DOLOMITE</u> ; 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'		
							131		-449		<u>DOLOMITE</u> ; 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'		
							132		-448		grades gray @ 131.5'		
HQ	21	2.5	0.7	0.0	28	0	133		-447		<u>DOLOMITE</u> ; grayish brown; micritic; fresh; strong; hard; banded; w/anhydrite bedding; (Salina Group - Unit F).		
							134		-446		<u>DOLOMITE</u> ; argillaceous; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).		
							135		-445				

**BLACK & VEATCH****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' E 4312.0'										GROUND ELEVATION (DATUM) 580.2 ft (NAVD 88)										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 Bonnie/Ang ECA										CHECKED BY EM Dogbey/Bonnie TB										APPROVED BY EM Meyer									
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																	
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CORING																																							
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, Pl, SR @ 135.3-136.0' 0°, B, T, No, No, Pl, SR @ 135.5', 135.7'																													
							136	444																															
HQ	23	2.5	0.7	0.0	28	0	137		443	LESTONE; dark gray; micritic; fresh; strong; hard; pitted; (Salina Group - Unit F). 0°, B, VN, Cl, Ir, SR @ 137.3'										137.1																			
							138		442	0°, B, VN, No, No, Pl, SR @ 137.65', 137.75'										137.8																			
HQ	24	2.5	0.0	0.0	0	0	139		441	DOLOMITE; argillaceous; gray; micritic; fresh; strong; hard; banded; (Salina Group - Unit F).																													
							140		440																														
							141		439																														
HQ	25	2.5	0.0	0.0	0	0	142		438																														
							143		437																														
							144		436																														
HQ	26	2.5	0.8	0.0	32	0	145		435																														
							146		434	CLAYSTONE; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).										145.6																			
							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																																



5/8/2008 3:27 PM DTE - Fermi 3 Geotech



BLACK & VEATCH

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' E 4382.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										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 TB Mass/Bonnie										CHECKED BY TB Dogbey/Bonnie										APPROVED BY EM Meyer																																																																																																																																																																																																	
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BLACK & VEATCH

BORING LOG

BORING NO. TB-C1

SHEET 3 OF 3

CLIENT						PROJECT							PROJECT NO.		
Detroit Edison						Fermi 3 COL Application							147483		
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6671.8'				E 4382.7'				580.7 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Graveled street						Plant				08/26/07		08/27/07			
SAMPLING						LOGGED BY				CHECKED BY				APPROVED BY	
						Mass/Bonnie				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			
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		550			Bottom of boring @ 30.9'. Water level not recorded. Boring backfilled w/bentonite chips to 5.0'; backfilled to surface w/gravel on 09/12/07.			
							32		549						
							33		548						
							34		547						
							35		546						
							36		545						
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**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C2

SHEET 2 OF 3

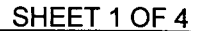
CLIENT Detroit Edison				PROJECT Fermi 3 COL Application				PROJECT NO. 147483				
PROJECT LOCATION Monroe, MI				COORDINATES N 6520.1' E 4394.4'				GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)				
SURFACE CONDITIONS Gravel roadway/storage area				COORDINATE SYSTEM Plant				DATE START 08/25/07		DATE FINISHED 08/28/07		
SAMPLING				LOGGED BY Bonnie/Grainger				CHECKED BY Dogbey/Bonnie		APPROVED BY Meyer		
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	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	
							17		562			
							18		561			
SPT	4	3	8	12	20	1.4	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			
							21		558		grades w/ trace cobbles @ 21.5'	Only a piece of cobble recovered in TW5.
							22		557			
							23		556			
							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			
							29		550			
SPT	7	12	50/0.3	-	50+	NR	30		550			Auger refusal @ 30.0'.

**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' E 4394.4'										GROUND ELEVATION (DATUM) 579.7 ft (NAVD 88)										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																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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									
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																																																																																							
																				30																																								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.																																		
																				31																				549																																																						
																				32																				548																																																						
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BORING LOG

BORING NO. TB-C3

SHEET 2 OF 4

CLIENT										PROJECT										STREET 2 OF 4																			
PROJECT LOCATION										COORDINATES										GROUND ELEVATION (DATUM)																			
SURFACE CONDITIONS										COORDINATE SYSTEM										DATE START																			
SAMPLING										LOGGED BY										CHECKED BY																			
CORING										DEPTH (FEET)										CLASSIFICATION OF MATERIALS																			
REMARKS										SAMPLE TYPE										ELEVATION (FEET)																			
GRAPHIC LOG										SAMPLE TYPE										ELEVATION (FEET)																			
REMARKS										SAMPLE TYPE										ELEVATION (FEET)																			
S										3										4.5										Discrete sample S03A collected @ 14.9-15.2'. PP = 1.5 TSF @ 15.0'.									
TW										4										2.0										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										grades w/trace fine to coarse, subrounded to subangular gravel w/max. size 1/2"; light olive brown; hard @ 20.5'									
SPT										6										1.4										grades grayish brown @ 24.0'									
SPT										7										0.7										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.									
S										8										2.3										DOLOMITE; weathered.									
																														DOLOMITE; light brownish gray; micritic; fresh; strong; hard; w/shale partings; (Bass Islands Group).									
																														DOLOMITE; light brownish gray & dark gray, mottled; micritic; fresh; strong; hard; (Bass Islands Group). light brownish gray @ 28.9-30.4'									

**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' E 4474.6'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)		TOTAL DEPTH 51.0 (feet)									
SURFACE CONDITIONS Gravel parking area.										COORDINATE SYSTEM Plant										DATE START 07/17/07		DATE FINISHED 07/27/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY TB for Bonnie/Ang/Mass										CHECKED BY TB for Dogbey/Mass										APPROVED BY Meyer	
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	
										30																				casing advanced w/sampler.	
HQ 1 3.2 3.1 1.0 97 31										550										DOLOMITE; grayish brown; micritic; fresh to slightly weathered; very strong; very hard; w/widely spaced stylolites; (Bass Islands Group).										Sonic core S-8 stored in box labeled S1.	
										549										90°J,Ca,Pa,PI,SR @ 30.4-31.7', 31.4-32.7'										Set nominal 6" temporary steel casing to 30.3'.	
										548										70°J,Ca,Pa,PI,SR @ 31.3-31.4', 32.7-33.4'										Below 30.3' continued w/ triple tube wire line core barrel w/diamond bit using water as drilling fluid.	
										547										claystone parting; very dark gray; fresh; strong; hard; @ 31.8'										Core box #1 starts @ 30.3'.	
										546										90°J,Ca,Pa,WA,SR @ 32.2-32.7'										Core loss @ 30.3-30.4'.	
										545										80°J,T,PI @ 33.2-33.8'										No drilling fluid return @ 33.5'.	
HQ 2 5.0 5.0 2.4 100 48										544										DOLOMITE; argillaceous; grayish brown and light brownish gray, banded; micritic; fresh; very strong; very hard; (Bass Islands Group).											
										543										claystone parting; very dark gray; fresh; strong; hard; @ 33.9'											
										542										80°J,CI,Pa,PI,SR @ 35.1-35.6'											
										541										shale parting - 0°B,PI,SR @ 35.4'											
										540										large (1.2") vug, partially filled w/0.3" anhydrite crystals @ 35.5'											
										539										90°J,CI,Pa,PI,SR @ 35.6-35.8'											
										538										90°J,No,No,PI,SR @ 35.9-37.4'											
										537										60°J,Ca,Pa,PI,SR @ 36.5-36.8'											
										536										stylolites begin @ 36.7'											
										535										highly fractured @ 37.1-37.2', 37.4-37.6'											
HQ 3 5.0 5.0 3.5 100 70										534										DOLOMITE; gray & grayish brown, banded; vuggy; micritic; slightly weathered; strong; hard; (Bass Islands Group).											
										533										70°J,Ca,Pa,PI,SR @ 39.2-39.6'											
										532										no vugs @ 39.3-40.1'											
										531										0°B,Ca,FI,PI,SR @ 39.4', 39.5', 40.3'											
										530										130°J,No,No,PI,R @ 39.6-39.8'											
										529										80°J,Ca,Pa,PI,SR @ 39.6-39.7'											
										528										20°J,Ca,Pa,PI,R @ 40.2-40.3'											
										527										20°J,Ca,Pa,PI,SR @ 40.5'											
										526										zones of closely spaced stylolites, 4.8" apart beginning @ 40.5'										Drill chatter @ 41.5'.	
										525										DOLOMITE; light brownish gray; micritic; fresh; strong; very hard; (Bass Islands Group).											
										524										highly fractured @ 41.4-41.5'											
										523										70°J,No,No,PI,SR @ 41.7-42.0'											
										522										0°B,No,No,PI,SR @ 42.6'											
										521										vuggy @ 43.1-43.2'											
										520										60°J,CI,Pa,PI,R @ 43.4-43.5'											
										519										grades light yellowish brown & gray, banded @ 43.5'											
										518										90°J,Ca,Pa,PI,SR @ 43.5-44.4'											
										517										0°B,No,No,PI,SR @ 43.8', 44.0'											
										516										highly fractured @ 44.2-44.4'											
										515																					



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 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	PERCENT RECOVERY	RQD															
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'										
							51		529		DOLOMITE; greenish gray; banded; micritic; fresh; very strong; hard; 0.1" shale partings & widely spaced stylolites; (Bass Islands Group).					Core loss @ 48.1-48.5'.					
							52		528		50°, J, No, No, PI, SR @ 48.0-48.1'										
							53		527		90°, J, T, PI @ 48.6-49.7' (many)										
							54		526												
							55		525												
							56		524												
							57		523												
							58		522												
							59		521												
							60														

Bottom of boring @ 51.0'. Water level @ 14.9' @ completion of drilling. 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.

**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' E 4520.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										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 ECA TB for 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																																									
														0								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).																				Boring advanced w/vacuum excavation.																			
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														14																																															
														15																																															
S		1				6.9						NR		580								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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S		2				10.0						NR		579								grades light brownish gray; wet.																																							
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BORING LOG

BORING NO. TB-C4

SHEET 2 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6510.2' E 4520.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)										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 ECA TB for Bonnie/Ang/Mass										CHECKED BY TB for 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																															
		S		4		16.4						1.6		15								grades very dark gray.																					
						18.0								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"	
														17																													
														18																													
														19																													
														20																													
														21																													
														22																													
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														29																													
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**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C4

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 4520.7'					580.7 ft (NAVD 88)					TOTAL DEPTH 54.0 (feet)									
SURFACE CONDITIONS Gravel parking lot										COORDINATE SYSTEM Plant					DATE START 07/17/07					DATE FINISHED 07/27/07									
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY TB for Bonnie/Ang/Mass					CHECKED BY TB for Dogbey/Mass					APPROVED BY Meyer									
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	
S 7										29.9								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										31.0								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										34.0								90°J,Ca,Pa,PI,SR @ 33.4-33.8' vuggy @ 34.0-34.9' 0°B,CI,FI,PI,SR @ 34.9'											
HQ 3 5.0 5.0 0.9 100 18										39.0								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'											
										44.0								30°J,UK,FI,PI,SR @ 39.4' 20°J,UK,FI,PI,SR @ 39.5' 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'											
																		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' 90°J,No,No,WA,SR @ 43.4-43.8'											
																		grades light brownish gray & light gray, banded @ 44.0'											

**BLACK & VEATCH****BORING LOG**

BORING NO. TB-C4

SHEET 4 OF 4

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																																	
PROJECT LOCATION Monroe, MI										COORDINATES N 6510.2' E 4520.7'										GROUND ELEVATION (DATUM) 580.7 ft (NAVD 88)		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 ECA TB Bonnie/Ang/Mass										CHECKED BY TB Dogbey/Mass										APPROVED BY Meyer																							
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N</th> <th>VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td colspan="8">CORING</td> </tr> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD</th> <th>RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> </table>										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	DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		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 4 5.0 5.0 2.9 100 58								45						highly fractured @ 44.9-45.1'										Core box #2 starts @ 44.9'.																													
								46		535				very closely spaced stylolites @ 45.8-45.9' 70° J, No, No, PI, SR @ 46.1-46.6'																																							
								47		534				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		533				highly fractured w/many approx. vertical fractures @ 46.6-47.2' 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		532				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		531				0° J, CI, PI, SR @ 50.4'																																							
								51		530																																											
HQ 6 3.0 2.5 1.0 83 33								52		529				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' 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'																																							
								53		528																																											
								54		527																																											
								55		526																																											
								56		525																																											
								57		524																																											
								58		523																																											
								59		522																																											
								60		521																																											

BLACK & VEATCH

BORING LOG

BORING NO. TB-C5

SHEET 1 OF 32

CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6677.7'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Parking area near propane tanks		Plant		06/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY		TB Bonnie/Grainger		TB Meyer	
CORING		CHECKED BY		DATE FINISHED	
CORE SIZE RUN NUMBER RUN LENGTH RUN RECOVERY RQD PERCENT RECOVERY RQD		TB Dogbey/Bonnie		07/18/07	
		DEPTH (FEET)		CLASSIFICATION OF MATERIALS	
		SAMPLE TYPE		REMARKS	
		ELEVATION (FEET)			
		GRAPHIC LOG			
		0		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).	Boring advanced w/vacuum excavation.
		1	580		
		2	579		
		3	578		
		4	577		
		5	576		
S	1	5	575		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.
		6	574		
		7	573		
		8	572		
		9	571		
		10	570	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.
		11	569		
		12	568	Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; light brownish gray; soft; moist; no reaction w/HCl; (Glacial Till).	
S	2	13	567		Discrete sample S2B collected @ 13.3-13.6'; stored in box labeled S1. Sonic core
		14	566		
		15			

**BLACK & VEATCH****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' E 4592.8'										GROUND ELEVATION (DATUM) 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>Geo for</i> Bonnie/Grainger										CHECKED BY TB <i>Geo for</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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																											
S	3		15.0			5.0	15		565		grades brown; hard; weak reaction w/HCl	stored in box labeled S1. Sonic core stored in box labeled S2.																											
							16		564																														
							17		563																														
							18		562																														
							19		561																														
							20		560																														
							21		559		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.																											
							22		558																														
							23		557																														
							24		556																														
							25		555		grades dark grayish brown																												
							26		554		DOLOMITE; light brownish gray & gray, mottled; micritic; slightly weathered; strong; hard; thin bedded; (Bass Islands Group).	Discrete sample S4A collected @ 22.0-22.3'; stored in box labeled S2. Sonic core stored in box labeled S2.																											
							27		553																														
							28		552																														
							29		551																														
							30																																

BLACK & VEATCH

BORING LOG

BORING NO. TB-C5

SHEET 3 OF 32

CLIENT										PROJECT										PROJECT NO.																																																						
Detroit Edison										Fermi 3 COL Application										147483																																																						
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																																																											
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)					471.1 (feet)																																																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START					DATE FINISHED																																																						
Parking area near propane tanks										Plant					06/21/07					07/18/07																																																						
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																																																						
										Bonnie/Grainiger					Dogbey/Bonnie					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					RECOVERY																																		
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'.																			
																				31.0																				31					550										DOLOMITE; argillaceous; light brownish gray; very fine grained; fresh; strong; hard; w/stylolites; (Bass Islands Group).					-														
																																								32					549																													
																																													33					548										0°,B,N,UK,Pa,PI @ 32.8'														
PQ										2					5.0					5.0					5.0					100					100					34					547										pitted to vuggy @ 33.9-35.0'																			
																																													35					546										0°,B,N,UK,Pa,PI @ 35.0'														
																																													36					545										80°,J,N,Ca,PI,SR @ 35.0-35.8'														
																				36.0																									37					544										90°,J,T,UK,PI @ 35.6'														
																																													38					543										10°,B,VN,UK,Sp,PI,SR @ 36.4'					No drilling fluid return @ 36.5'.									
PQ										3					4.2					4.2					4.0					100					95					39					542										10°,B,VN,UK,Sp,PI,SR @ 38.5'					Core box #2 starts @ 38.5'.														
																																													40					541										10°,B,VN,UK,Sp,PI,SR @ 39.1'														
PQ										4					0.8					40.2					0.8					0.0					100					0					41					540															Core barrel blocked @ 40.8'.									
																				41.0																														42					539																			
																																																		43					538										10°,B,N,UK,Sp,PI,R @ 42.9'									
PQ										5					5.0					5.0					3.2					100					64					44					537										Two 90° Joints,T,No,No,St,VR closely spaced parallel @ 40.2-43.0'																			
																																																		45					536										90°,J,T,No,No,St,VR closely spaced parallel @ 43.2-46.0'									
																																																												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' E 4592.8'										GROUND ELEVATION (DATUM) 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 Bonnie/Grainger										CHECKED BY TB 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																															
PQ		6		5.0		5.0		3.2		100		64		45								90°, J, T, Ca, Pa to Fi, St, VR @ 44.9-46.9'																					
														46								10°, B, N, UK, Sp, PI, R @ 45.5'																					
						46.0								47								DOLOMITE; crystalline; banded, gray & dark gray; micritic; fresh; strong; hard; w/stylolites; (Bass Islands Group).																				Drill chatter @ 46.5-47.5'.	
														48								90°, J, T, Ca, Pa to Fi, St, VR @ 47.5-49.6'																					
														49								0°, B, T, UK, Fi, PI @ 47.4', 47.6', 47.9'																				Core box #3 starts @ 47.4'.	
														50								0°, B, T, UK, Fi, PI @ 48.7'																					
														51								1/4" black shale seam @ 50.5'																					
						51.0								52								DOLOMITE; argillaceous; dark gray; slightly weathered; strong; hard; thick bedded; vuggy; w/stylolites & weathered vugs; (Bass Islands Group).																					
														53								0°, B, Ma, Fi, PI, R @ 51.0'																					
														54								70°, J, VN, No, No, PI, R @ 51.6-52.6'																					
														55								0°, B, Ma, Fi, PI, R @ 52.1'																					
														56								0°, B, Ma, Fi, PI, R @ 52.8'																					
														57								closely spaced vertical joints @ 54.2-59.4'																					
														58								0°, B, Ma, Fi, PI, R @ 54.2'																					
														59								0°, B, Ma, Fi, PI, R @ 54.7'																					
														60								0°, B, Ma, Fi, PI, R @ 55.3'																					
																						0°, B, Ma, Fi, PI, R @ 55.6'																					
																						DOLOMITE; crystalline; light brownish gray; micritic; fresh; moderately strong; hard; w/stylolites; (Bass Islands Group).																				Core box #4 starts @ 56.0'.	
																						contorted, highly fractured fractures filled with anhydrite @ 56.0-59.4'																					
																						crystal-filled vugs @ 56.0' & 57.5'																					

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BORING LOG

BORING NO. TB-C5

SHEET 5 OF 32

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)		471.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Parking area near propane tanks										Plant					06/21/07		07/18/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/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								
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD															
								60													
								61					Water level @ 14.0' prior to drilling on 06/11/07.								
			61.0					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, PI, 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, PI, 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).									
PQ	10	5.0	4.9	4.3	98	86		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'									
								69				0.01" thick black shale parting @ 67.4'									
								70				0°, B, VN, UK, Pa, PI, Sp @ 67.8', 68.4', 68.5', 69.4', 69.8'									
								71				0°, B, VN, UK, Pa, PI, 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, PI, R (weathered) @ 72.0'									
PQ	11	5.0	4.9	4.9	98	98		74				DOLOMITE; crystalline; light brownish gray; micritic; fresh; extremely strong; hard; massive w/closely spaced stylolites; (Bass Islands Group). 50°, J (weathered) @ 73.3'									
								75				50°, J, T, Ca, Fi, PI, SR @ 74.7', 74.8'									



BORING NO. TB-C5

SHEET 6 OF 32

7/16/2008 2:54 PM DTE - Fermi 3 Geotech

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BORING LOG

BORING NO. TB-C5

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 6677.7'				E 4592.8'				580.8 ft (NAVD 88)	
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED	
Parking area near propane tanks						Plant				06/21/07		07/18/07	
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY	
						Bonnie/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	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD							
PQ	16	5.0	5.0	3.0	100	60	90		490		shale seams & stylolites; (Bass Islands Group).		
			91.0				91		489				
							92		488		1/4" black shale parting @ 92.5'	Core box #8 starts @ 92.0'.	
							93		487		10°, B, MW, CI, Sp, PI, R (weathered) @ 93.1' 90°, J, T, No, No, Ir, VR @ 93.1-94.0'		
							94		486		10°, B, MW, CI, Sp, PI, R (weathered) @ 94.5' 1/4" black shale parting @ 94.8'		
							95		485				
			96.0				96		484		irregular, very dark gray dolomite inclusion @ 97.0'		
							97		483				
PQ	17	5.0	5.2	4.8	100	98	98		482		DOLOMITE; 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		481				
							100		480				
			101.0				101		479		0°, B, N, CI, Pa, WA (weathered) @ 101.0'		
							102		478		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		477		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	104		476		0°, B, N, CI, Pa, WA (weathered) @ 103.5'		
							105		475		90°, J, T, H, Ir, P @ 104.5-106.0'		

**BLACK & VEATCH****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' E 4592.8'										GROUND ELEVATION (DATUM) 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													
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		19		5.0		5.0		2.7		100		58		105								0°,B,N,Cl,Pa,WA (weathered) @ 105.0',105.2'																					
														106								0°,B,N,Cl,Pa,WA (weathered) @ 105.6'																					
														107								90°,J,T,H,Ir @ 106.0-107.2'																					
														108								0°,B,N,No,No,Pl,R (weathered) @ 106.2'																					
														109								0°,B,N,No,No,Pl,R (weathered) @ 107.7'																					
														110								90°,J,T,H,Ir @ 108.5-109.5'																					
														111								0°,B,N,No,No,Pl,R (weathered) @ 109.0'																					
														112								0°,B,N,No,No,Pl,R (weathered) @ 109.3'																					
														113								60°,J,T,No,No,Pl,SR @ 109.5',109.6'																					
														114								70°,J,T,H,Ir @ 110.5-111.0'																					
														115								0°,B,MW,Ca,Fi,PI @ 111.9'																					
														116								80°,J,Ca,Fi,PI,R @ 112.3'																					
														117								80°,J,W (weathered) @ 112.5'																					
														118								0°,B,W,Cl,Fi (weathered) @ 112.6',112.8'																					
														119								30°,J,N,No,No,Pl,R @ 113.4', 113.5'																					
														120								DOLOMITE; crystalline; dark grayish brown; micritic; fresh; very strong; hard; massive; w/pits & argillaceous seams; (Bass Islands Group).																					
																						30°,J,N,No,PI,R @ 113.6'																					
																						90°,J,T,Ca,Pa,PI,R @ 114.2-115.2'																					
																						30°,J,N,No,PI,R @ 114.2'																					
																						60°,J,N,No,No,PI,R @ 115.3-116.0'																					
																						80°,J,N,Ca,Fi,PI @ 116.0-116.9'																					
																						0°,B,W,Cl,Fi @ 116.0'																					
																						45°,J,W,Cl,Fi @ 116.2'																					
																						brecciated, healed @ 116.6-117.9',118.5-119.6'																					
																						0°,B,W,Cl,Fi @ 118.0'																					
																						80°,J,N,Ca,Fi,PI @ 119.5-121.0'																					

Core box #10 starts @ 111.9'.

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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' E 4592.8'										GROUND ELEVATION (DATUM) 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													
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		22		5.0		4.6		0.0		92		0		120								45°, J, W, Cl, 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								DOLOMITE; 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'																					
														124								fractured along bedding @ 122.0-123.1'																					
														125								0.1" thick shale parting @ 122.3'																					
														126								fractured along bedding @ 123.4-123.7'																					
														127								fractured along bedding @ 124.0-124.2'																					
														128								fractured along bedding @ 124.8-125.3'																					
														129								90°, J, N, No, No, Ir, VR @ 122.3-123.7', 124.8-125.3'																				Water level @ 11.2' on 07/12/07.	
				126.0										130								DOLOMITE; shaley; interbedded w/DOLOMITE; 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).																					
														131								0°, B, MW, No, No, PI (weathered) @ 126.4', 126.9', 127.2', 127.7'																					
														132								30°, J, N, No, No, PI, R @ 127.2'																					
														133								90°, J, N, No, No, PI, R @ 128.0-128.8'																					
														134								0°, B, MW, No, No, PI (weathered) @ 128.5'																					
														135								0°, B, MW, No, No, PI (weathered) @ 128.8'																					
																						0°, B, MW, No, No, PI (weathered) @ 130.9'																				Core box #12 starts @ 131.0'.	
																						LIMESTONE; crystalline; dark gray; very fine grained; slightly weathered; medium strong; medium hard; w/ thin clay seams; (Salina Group - Unit F).																					
																						0°, B, MW, No, No, PI (weathered) @ 133.9'																					
																						clay seams @ 134.7', 135.1', 136.0'																					
																						0°, B, MW, No, No, PI (weathered) @ 134.5'																					

**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' E 4592.8'										GROUND ELEVATION (DATUM) 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							
								135				0°, B, MW, No, No, PI (weathered) @ 135.4'	
								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'	
								143				limestone layers @ 140.5-142.2'	
								144				0°, B, N, No, PI, R @ 141.3'	
								145					
PQ	26	5.0	3.0	0.0	60	0		146				DOLOMITE; crystalline; gray; micritic; fresh; moderately strong; fractured; (Salina Group - Unit F).	Core box #13 starts @ 142.2'.
								147				0°, B, weathered clay seams @ 142.4', 143.5'	
								148				90°, J, N, No, No, PI, R @ 142.6-143.5'	
								149				60°, J, N, No, No, PI, R @ 143.0'	
								150				0°, B, N, No, PI, R @ 142.8', 142.9', 143.3'	Soft drilling @ 143.5-146.0'; core losses.
												CLAYSTONE; dolomitic; gray; slightly weathered; moderately strong; moderately hard; highly fractured; w/ layers or seams of vuggy limestone; (Salina Group - Unit F).	
												90°, J, N, No, No, PI, R @ 146.0-146.8'	
												0°, B, N, No, No, PI, R @ 146.8', 146.9', 147.0'	
												90°, J, N, No, No, PI, R @ 147.1-147.6'	
												40°, J, N, No, No, PI, R @ 147.4', 147.7'	
												0°, B, N, No, No, PI, R @ 147.7'	
												40°, J, N, No, No, PI, R @ 148.0', 148.2'	
PQ	27	5.0	3.5	0.0	70	0						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' E 4592.8'										GROUND ELEVATION (DATUM) 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																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																													
<table border="1"> <tr> <th>CORE SIZE</th> <th>RUN NUMBER</th> <th>RUN LENGTH</th> <th>RUN RECOVERY</th> <th>RQD RECOVERY</th> <th>PERCENT RECOVERY</th> <th>RQD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD								150										430																																																	
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																													
										151										429																																																															
										152										428																																																															
PQ 28 5.0 4.9 1.7 98 34										153										427																																																															
										154										426																																																															
										155										425																																																															
										156										424																																																															
PQ 29 5.0 4.8 1.8 96 36										157										423																																																															
										158										422																																																															
										159										421																																																															
										160										420																																																															
										161										419																																																															
										162										418																																																															
PQ 30 5.0 5.0 2.8 100 56										163										417																																																															
										164										416																																																															
										165																																																																									

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Core box #14 starts @ 156.0'.

Discrete sample 14A taken from PQ29 @ 160.3-161.0'.

Core box #15 starts @ 164.6'.

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BORING LOG

BORING NO. TB-C5

SHEET 12 OF 32

CLIENT						PROJECT						PROJECT NO.			
Detroit Edison						Fermi 3 COL Application						147483			
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH			
Monroe, MI				N 6677.7'				E 4592.8'				580.8 ft (NAVD 88)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Parking area near propane tanks						Plant				06/21/07		07/18/07			
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY			
						Bonnie/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			
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD									
PQ	31	5.0	5.0	1.4	100	28	165		415		contorted bedding @ 166.2-168.4'				
			166.0				166		414						
							167		413						
							168		412		<u>DOLOMITE</u> ; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).				
							169		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'				
							170		410						
			171.0				171		409		<u>BRECCIA</u> ; indurated; (Salina Group - Unit F).				
							172		408						
PQ	32	5.0	5.0	1.5	100	30	173		407		<u>DOLOMITE</u> ; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).				
							174		406		<u>BRECCIA</u> ; indurated; (Salina Group - Unit F).				
							175		405		<u>DOLOMITE</u> ; crystalline; gray; micritic; fresh; strong; hard; w/zones of indurated breccia & contorted bedding; (Salina Group - Unit F).				
							176		404		highly fractured w/closely spaced joints @ 175.5-176.9'				
			176.0				177		403		<u>BRECCIA</u> ; 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).				
PQ	33	5.0	5.0	1.0	100	20	178		402						
							179		401			Discrete sample 16A taken from 178.7-179.3'.			
							180								

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BORING LOG

BORING NO. TB-C5

SHEET 13 OF 32

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)		471.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Parking area near propane tanks										Plant					06/21/07		07/18/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/Grainger					Dogbey/Bonnie					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									

CLIENT										PROJECT										PROJECT NO.																			
Detroit Edison										Fermi 3 COL Application										147483																			
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH																								
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)		471.1 (feet)																						
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED																						
Parking area near propane tanks										Plant					06/21/07		07/18/07																						
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY																			
										Bonnie/Grainger					Dogbey/Bonnie					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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS					REMARKS												
														195																									
						196.0								196								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'.												
														197								60° soft seams w/clay @ 196.1', 196.9'																	
PQ		37		5.0		5.0		1.5		100		30		198																									
														199								LIMESTONE; argillaceous; very fine grained; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).																	
														200								30°, B, VN, No, No, Fi, SR (weathered) @ 199.2-199.4'																	
														201								LIMESTONE; crystalline; dark gray; micritic; fresh; strong; hard; vuggy; (Salina Group - Unit F).																	
						201.0								202								30° weathered zones @ 200.0-200.2', 200.6-200.7' solutioned, weathered & pitted @ 201.4-203.0'																	
														203								30° weathered zones @ 202.7-203.0'																	
PQ		38		5.0		4.5		1.5		90		30		204								DOLOMITE; gray; micritic; fresh; strong; hard; (Salina Group - Unit F).																	
														205								SHALE; gray; (Salina Group - Unit F).																	
														206								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								207								60°, J, W, No, No, Ir, VR @ 204.5', 206.0'					Core box #19 starts @ 206.0'.												
														208																									
														209																									
PQ		39		5.0		3.5		0.5		70		10		210								LIMESTONE; crystalline; dark gray; micritic; slightly weathered; moderately strong; moderately hard; (Salina Group - Unit F).																	
																						0° B. solutioned & weathered @ 208.9'																	

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BORING LOG

BORING NO. TB-C5

SHEET 15 OF 32

CLIENT										PROJECT										PROJECT NO.	
Detroit Edison										Fermi 3 COL Application										147483	
PROJECT LOCATION					COORDINATES					GROUND ELEVATION (DATUM)					TOTAL DEPTH						
Monroe, MI					N 6677.7'					E 4592.8'					580.8 ft (NAVD 88)		471.1 (feet)				
SURFACE CONDITIONS										COORDINATE SYSTEM					DATE START		DATE FINISHED				
Parking area near propane tanks										Plant					06/21/07		07/18/07				
SAMPLING										LOGGED BY					CHECKED BY					APPROVED BY	
										Bonnie/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								
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				BRECCIA; cemented; gray; crystalline limestone matrix; calcareous claystone & limestone clasts; w/ soft seams; (Salina Group - Unit F).									
								212													
								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).									
PQ	40	5.0	4.5	2.5	90	50		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,Pl @ 214.9',215.0' 0°,B,solutioned & weathered @ 215.3'									
								216					Core box #20 starts @ 216.0'.								
								217				limestone layer @ 216.6-217.3',217.5-217.8' 10°,B,N,solutioned @ 216.8' 10°,B,N,solutioned @ 217.3',217.4'									
								218				10°,B,N,solutioned @ 217.8' limestone layer @ 218.0-218.3' 10°,B,N,solutioned @ 218.4',218.9'									
PQ	41	5.0	4.8	1.4	96	28		219				20°,J,N,Ca,Fi,Pl,R @ 218.4',218.5' 90°,J,N,Ca,Fi,Pl,R @ 218.5-218.9'									
								220				LIMESTONE; dark gray; slightly weathered; moderately strong; hard; vuggy; (Salina Group - Unit F). 10°,B,N,solutioned @ 220.4'									
								221													
								222				solutioned clay-filled zones @ 221.9-222.2'									
								223				solutioned clay-filled zones @ 222.7-222.9'									
								224													
PQ	42	5.0	4.5	0.5	90	10		225				solutioned clay-filled zones @ 224.2-224.4' 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 Bonnie/Grainger										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																																																																																																							
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PQ										43										5.0										3.0										0.0										60										0																																																	
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PQ										44										5.0										3.8										0.9										76										18																																																	
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PQ										45										5.0										3.5										1.0										70										20																																																	
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**BLACK & VEATCH****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/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						
PQ	46	5.0	4.8	2.0	96	40	240				50°, J, N, No, No, Ir, R @ 240.5'	
			241.0				241				0°, B, No, No, PI (weathered) @ 241.4'	
							242				BRECCIA; 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'	
							244				LIMESTONE; dark gray; vuggy; slightly weathered; strong; hard; (Salina Group - Unit F).	
							245				solutioned @ 244.7-245.0'	
							246				20°, J, solutioned @ 245.5'	
			246.0				247				DOLOMITE; light brownish gray; fresh; very strong; very hard; (Salina Group - Unit E).	
							248				DOLOMITE & LIMESTONE; interbedded; gray; slightly weathered; strong; hard; (Salina Group - Unit E).	
PQ	47	5.0	5.0	1.9	100	38	249				0°, B, W, No, No, PI (weathered) @ 246.1', 246.5', 246.6'	
							250				DOLOMITE; crystalline; very pale brown; slightly weathered; strong; hard; w/fossils & widely spaced stylolites; (Salina Group - Unit E).	
							251				80°, J, N, Ca, Fi, PI, R @ 247.4-247.9'	
							252				0°, B, N, No, No, PI (weathered) @ 247.7', 247.9', 248.2', 248.7', 248.9'	
							253				fractured along bedding @ 249.1-249.2'	
							254				0°, B, N, No, No, PI (weathered) @ 249.9', 250.2', 250.3'	
							255				0°, B, N, No, No, PI (weathered) @ 250.7'	
											0°, B, W, No, No, PI @ 251.1', 251.2', 251.3', 251.4'	
											10°, J, N, Ca, Fi, PI @ 252.1', 252.2', 252.3', 252.4'	
											0°, B, W, No, No, PI @ 253.0', 253.3'	
PQ	48	5.0	5.0	0.9	96	18					60°, J, N, No, PI, R @ 253.0-253.5', 253.3-254.5'	
											90°, J, T, No, PI, R @ 254.5-256.0'	

Core box #23 starts @ 248.9'.



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BORING LOG

BORING NO. TB-C5

SHEET 18 OF 32

CLIENT Detroit Edison										PROJECT Fermi 3 COL Application										PROJECT NO. 147483																							
PROJECT LOCATION Monroe, MI										COORDINATES N 6677.7' E 4592.8'										GROUND ELEVATION (DATUM) 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 600 for Bonnie/Grainger										CHECKED BY 500 for Dogbey/Bonnie TB										APPROVED BY 800 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																															
PQ		49		5.0		3.4		1.2		68		24		255								0°, B, W, No, No, PI @ 254.9'																					
														325								0°, B, W, No, No, PI @ 255.4'																					
				256.0										324								soft zones along bedding @ 256.0-256.2', 256.6-256.9'																					
														323								90°, J, VN, Ca, Fi, St @ 256.2-260.0'																					
														322								soft zones along bedding @ 257.1-257.6'																					
														321								soft zones along bedding @ 257.9-258.2'																					
														320								soft zones along bedding @ 258.5-258.7'																					
														319								20°, J, W, No, No, PI @ 258.7', 259.2', 259.5'																					
														318								0°, B, W, No, PI, SR @ 259.5', 259.7', 260.5'																					
														317																													
				261.0										316								DOLOMITE; banded; gray; micritic; fresh; moderately strong; moderately hard; thin bedded; (Salina Group - Unit E).																					
														315								90°, J, T, No, No, PI, R @ 263.7-265.6'																					
														314								0°, B, N, No, No, PI, R @ 263.9', 264.1'																					
														313								highly fractured along bedding @ 264.2-265.1'																					
														312								0°, B, N, No, No, PI, R @ 265.6'																					
														311								highly fractured along bedding @ 266.0-267.4'																					
														310																													
														309								90°, J, N, No, No, PI, R @ 267.4-268.2', 270.6-270.9'																					
														308								0°, B, N, No, No, PI, SR (closely banded) @ 267.5-267.9', 268.2-268.4', 268.8-268.9'																					
														307								pitted @ 268.2-268.5', 270.2-271.3'																					
														306																													
														305								0°, B, N, No, PI, SR (closely banded) @ 269.3-269.4', 269.6-269.7'																					

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BORING LOG

BORING NO. TB-C5

SHEET 19 OF 32

CLIENT		PROJECT LOCATION				COORDINATES				PROJECT				PROJECT NO.	
Detroit Edison		Monroe, MI				N 6677.7'				Fermi 3 COL Application				147483	
PROJECT LOCATION		COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH					
Monroe, MI		N 6677.7'				E 4592.8'				580.8 ft (NAVD 88)		471.1 (feet)			
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED			
Parking area near propane tanks						Plant				06/21/07		07/18/07			
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY			
						Bonnie/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															
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'.		
								272							
								273				DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; thick bedded; w/stylolites; fossiliferous; (Salina Group - Unit E).			
PQ	52	5.0	4.8	4.3	96	86		274				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.		
								275							
			276.0					276							
								277							
PQ	53	3.0	2.8	2.8	93	93		278				DOLOMITE; light brownish gray; w/anhydrite seams; (Salina Group - Unit E).			
								279				DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).			
			279.0					280				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		281				DOLOMITE; pale yellowish brown; (Salina Group - Unit E).			
								282				DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/thin shale bands & stylolites; (Salina Group - Unit E).	Core box #26 starts @ 281.0'.		
			281.0					283				0°, J, VN, anhydrite, Fi, WA @ 281.3'			
								284				DOLOMITE; crystalline; light brownish gray; micritic; fresh; very strong; hard; w/anhydrite pockets along convoluted bedding & stylolites; (Salina Group - Unit E).			
PQ	55	5.0	5.0	4.4	100	88		285				0°, J, VN, anhydrite, Fi, WA @ 281.5', 281.7'			
												0°, J, VN, anhydrite, Fi, WA @ 282.3', 283.0', 283.3', 283.5'			
												20°, J, VN, anhydrite, Fi, PI @ 283.4'			
												DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; (Salina Group - Unit E).			
												0°, J, VN, anhydrite, Fi, WA @ 283.6', 284.3', 285.0'			

**BLACK & VEATCH****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			
SAMPLING SAMPLE TYPE SAMPLE NUMBER SET 6 INCHES 2ND 6 INCHES 3RD 6 INCHES N VALUE SAMPLE RECOVERY										LOGGED BY <i>GB</i> Bonnie/Grainger					CHECKED BY <i>for TB</i> Dogbey/Bonnie					APPROVED BY <i>fm</i> Meyer	
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					
PQ	56	5.0	5.0	4.9	100	98	285		285		70°,J,N,anhydrite,Fi,Ir @ 286.4-287.4'					Core box #27 starts @ 291.0'.					
							286		286		black shale @ 287.4-287.6'										
							287		287		0°,J,W,anhydrite,Fi,Pl @ 287.5'										
							288		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		289												
							290		290												
							291		291												
							292		292												
							293		293												
							294		294												
							295		295												
							296		296												
PQ	57	5.0	5.0	5.4	100	100	291		291	90°,J,VN,anhydrite,Fi,Ir @ 290.8-291.3'											
							292		292	70°,J,N,anhydrite,Fi,Ir @ 290.9-291.6'											
							293		293												
							294		294												
							295		295												
							296		296												
							297		297												
							298		298												
							299		299												
PQ	58	5.0	5.0	5.0	100	100	300		300	90°,J,T,No,No,Ir @ 297.9-299.2'											
										closely spaced stylolites @ 299.8-300.0'											

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CLIENT		PROJECT		PROJECT NO.	
Detroit Edison		Fermi 3 COL Application		147483	
PROJECT LOCATION		COORDINATES		GROUND ELEVATION (DATUM)	
Monroe, MI		N 6677.7' E 4592.8'		580.8 ft (NAVD 88)	
SURFACE CONDITIONS		COORDINATE SYSTEM		DATE START	
Parking area near propane tanks		Plant		06/21/07	
SAMPLING		LOGGED BY		APPROVED BY	
		Bonnie/Grainger		Meyer	
CORING		CHECKED BY		DATE FINISHED	
		Dogbey/Bonnie		07/18/07	
SAMPLE TYPE		SAMPLE NUMBER		SET 6 INCHES	
CORE SIZE		RUN NUMBER		2ND 6 INCHES	
RUN LENGTH		RUN RECOVERY		3RD 6 INCHES	
RQD		PERCENT RECOVERY		N VALUE	
RQD		RQD		SAMPLE RECOVERY	
DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)	
GRAPHIC LOG		CLASSIFICATION OF MATERIALS		REMARKS	
PQ	59	5.0	5.0	5.0	100
PQ	60	5.0	5.0	5.0	100
PQ	61	5.0	5.0	4.9	98
<p>90°, J, T, H, Fi, Ir @ 301.2-301.5'</p> <p>20°, J, T, H, Fi, PI @ 301.7'</p> <p>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).</p> <p>DOLOMITE; grayish brown & gray; convoluted bands & areas; (Salina Group - Unit E).</p> <p>DOLOMITE; argillaceous; gray; interbedded; micritic; fresh; strong; hard; banded w/black shaley seams; (Salina Group - Unit E).</p> <p>DOLOMITE; gray & very dark gray; micritic; fresh; very strong; hard; convoluted bedding; massive; (Salina Group - Unit E).</p> <p>fractured along bedding plane @ 311.0-311.2'</p> <p>DOLOMITE; argillaceous; gray; micritic; fresh; very strong; hard; w/shaley seams; (Salina Group - Unit E).</p> <p>ANHYDRITE; white; micritic; fresh; weak; low hardness; interbedded w/hard; light brownish gray dolomite; (Salina Group - Unit E).</p> <p>DOLOMITE; fossiliferous; light brownish gray; micritic; fresh; very strong; hard; (Salina Group - Unit E). 0°, B, N, anhydrite, Fi, PI @ 313.9', 315.6'</p>					

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BORING LOG

BORING NO. TB-C5

SHEET 22 OF 32

CLIENT						PROJECT							PROJECT NO.	
Detroit Edison						Fermi 3 COL Application							147483	
PROJECT LOCATION				COORDINATES				GROUND ELEVATION (DATUM)				TOTAL DEPTH		
Monroe, MI				N 6677.7'				E 4592.8' 580.8 ft (NAVD 88)				471.1 (feet)		
SURFACE CONDITIONS						COORDINATE SYSTEM				DATE START		DATE FINISHED		
Parking area near propane tanks						Plant				06/21/07		07/18/07		
SAMPLING						LOGGED BY				CHECKED BY		APPROVED BY		
						Bonnie/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		
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS		
PQ	62	5.0	5.0	4.8	100	96	315		265					
			316.0				316		265		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		264					
							318		263					
PQ	62	5.0	5.0	4.8	100	96	319		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'.		
							320		261					
							321		260					
			321.0				322		259					
							323		258					
PQ	63	5.0	5.0	5.0	100	100	324		257		DOLOMITE; light brownish gray & dark gray interbedded sequence; micritic; fresh; very strong; hard; w/partings of anhydrite; (Salina Group - Unit E).			
							325		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'			
			326.0				326		255		gray soft clay seam @ 326.2-326.4'			
							327		254					
							328		253		DOLOMITE; light brownish gray & light gray; micritic; fresh; strong; hard; interbedded w/anhydrite & shale partings; bedding contorted; (Salina Group - Unit E).	Core box #31 starts @ 327.6'.		
PQ	64	5.0	4.9	4.8	98	96	329		252		30°,J,MW,anhydrite,Fi,PI @ 328.4', 328.5', 329.9'			
							330		251					



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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' E 4592.8'										GROUND ELEVATION (DATUM) 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																																																																																																																																
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY	<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> </table>										CORING	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS																																																																																																																													
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PQ	65	5.0	5.0	5.0	100	100																																																																																																																																																								
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**BLACK & VEATCH****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' E 4592.8'				GROUND ELEVATION (DATUM) 580.8 ft (NAVD 88)				
SURFACE CONDITIONS Parking area near propane tanks				COORDINATE SYSTEM Plant				DATE START 06/21/07				
								DATE FINISHED 07/18/07				
SAMPLING				LOGGED BY TB Bonnie/Grainger				CHECKED BY TB Dogbey/Bonnie				
								APPROVED BY RM 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
PQ	68	5.0	5.0	5.0	100	100	345		235			
			346.0				346		234		0°,B,MW,anhydrite,Fi,PI @ 346.7'	Core box #33 starts @ 346.0'.
							347		233			
							348		232		anhydrite bands @ 348.1-348.2'	
							349		231		0°,B,MW,anhydrite,Fi,PI @ 348.8'	
							350		230		anhydrite bands @ 349.1-349.2', 349.9'	
							351		229			
			351.0				352		228		<u>DOLOMITE</u> ; dark gray & black; micritic; fresh; very strong; hard; w/partings of olive black claystone & bands of anhydrite; (Salina Group - Unit C).	
							353		227		0°,B,MW,anhydrite,Fi,PI @ 352.4'	
PQ	69	5.0	4.8	4.7	96	94	354		226			
							355		225		<u>CLAYSTONE</u> ; 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		224			
			356.0				357		223		<u>DOLOMITE</u> ; (Salina Group - Unit C). 0°,B,MW,anhydrite,Fi,PI @ 356.5'	Water level @ 25.1' prior to drilling on 07/10/07.
							358		222		<u>CLAYSTONE</u> ; 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'	
							359		221		10°,J,MW,anhydrite,Fi,PI @ 357.4'	
PQ	70	5.0	5.0	5.0	100	100	360				<u>DOLOMITE</u> ; (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						PROJECT				SHEET 20 OF 32	
Detroit Edison						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 <i>Bonnie/Grainger</i>						CHECKED BY <i>Em for Dogbey/Bonnie TB</i>		APPROVED BY <i>Meyer fm</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						
CORING						DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS
CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD	PERCENT RECOVERY						
PQ	71	5.0	5.0	5.0	100	100		360		0° B,MW,anhydrite,Fi,PI @ 359.5', 360.6'	
								361		<u>CLAYSTONE</u> ; 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).	
								362			
								363			
								364		0° B,MW,anhydrite,Fi,PI @ 363.6' light brownish gray dolomite band @ 363.6-363.8' 20° J,MW,anhydrite,Fi,PI @ 363.9'	
								365			
								366			
								367		<u>DOLOMITE</u> ; interbedded light brownish gray & dark gray; fresh; very strong; hard; w/partings of claystone & anhydrite seams; (Salina Group - Unit C). 0° B,MW,anhydrite,Fi,PI @ 367.4'	
								368		<u>CLAYSTONE</u> ; very dark gray; fresh; very strong; hard; w/anhydrite bands; (Salina Group - Unit C).	
								369			
								370		grades very dark greenish black @ 370.0' 10° J,MW,anhydrite,Fi,PI @ 370.2' 0° B,MW,anhydrite,Fi,PI @ 370.4'	
								371		30° J,N,anhydrite,Fi,WA @ 371.0'	
								372			
								373		<u>DOLOMITE</u> ; light brownish gray; micritic; fresh; strong; hard interbedded w/bands of light gray ANHYDRITE & bands of dark greenish gray claystone (Salina Group - Unit C). anhydrite seams @ 372.0-372.4', 372.5-372.6' 0° B,MW,anhydrite,Fi,PI @ 373.0' anhydrite seams @ 373.6-373.7'	
								374		0° B,MW,anhydrite,Fi,PI @ 374.0', 374.1'	
								375		0° B,MW,anhydrite,Fi,PI @ 374.8'	

Core box #35 starts @ 364.4'. PQ-71: Left 1.0' in hole, recovered by going back in hole. Resulted in full recovery.

Core box #36 starts @ 373.6'.

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BORING LOG

BORING NO. TB-C5

SHEET 26 OF 32

CLIENT						PROJECT							PROJECT NO.																			
									Detroit Edison							Fermi 3 COL Application								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>TB Bonnie/Grainger</i>							CHECKED BY <i>SM for Dogbey/Bonnie TB</i>							APPROVED BY <i>EM Meyer</i>							
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	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS											REMARKS										
PQ	74	5.0	4.8	4.8	96	96	375		205	[Pattern]	DOLOMITE; gray & light brownish gray; micritic; fresh; very strong; hard; interbedded w/bands & partings of greenish black claystone & anhydrite bands; (Salina Group - Unit C).																					
							376		204	[Pattern]	10° B,MW,anhydrite,Fi @ 377.5'																					
							377		203	[Pattern]	anhydrite seam @ 378.1-378.5'																					
							378		202	[Pattern]	10° B,MW,anhydrite,Fi @ 379.2'																					
							379		201	[Pattern]	anhydrite seam @ 379.3-379.4'																					
							380		200	[Pattern]	90° J,N,anhydrite,Fi,Ir @ 379.7-381.0'																					
							381		199	[Pattern]	grades pale yellowish brown @ 381.9'																					
PQ	75	5.0	5.0	5.0	100	100	382		198	[Pattern]	CLAYSTONE; dark gray; fresh; very strong; moderately hard; massive; w/anhydrite seams & pockets; (Salina Group - Unit C). 0° B,MW,anhydrite,Fi,PI @ 382.7', 383.2'											Core box #37 starts @ 383.0'										
							383		197	[Pattern]	0° B,MW,anhydrite,Fi,PI @ 383.9'																					
							384		196	[Pattern]																						
							385		195	[Pattern]																						
							386		194	[Pattern]																						
PQ	76	5.0	4.9	4.7	98	94	387		193	[Pattern]	40° J,N,anhydrite,Fi,PI @ 388.0'																					
							388		192	[Pattern]																						
							389		191	[Pattern]	anhydrite seams @ 389.3-390.4'																					
							390		190	[Pattern]																						

**BLACK & VEATCH****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'		TOTAL DEPTH 580.8 ft (NAVD 88)	
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							
PQ	77	5.0	5.0	5.0	100	100	390						
							391						
							392						
							393						
							394						
							395						
							396						
							397						
							398						
							399						
							400						
							401						
							402						
							403						
							404						
							405						

contact @ 391.8' contorted

DOLOMITE; gray; micritic; fresh; very strong; hard; massive; (Salina Group - Unit C).

0°,B,MW,anhydrite,Fi,PI @ 392.8', 393.1'

90°,J,N,anhydrite,Fi,Ir @ 392.8-394.8'

0°,B,MW,anhydrite,Fi,PI @ 393.7'

DOLOMITE; gray; micritic; fresh; very strong; hard; banded w/very dark gray bands & partings; (Salina Group - Unit C).

0°,B,MW,anhydrite,Fi,PI @ 394.5'

0°,B,MW,anhydrite,Fi,PI @ 395.9'

DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).

DOLOMITE; gray & light brownish gray, interbedded; micritic; fresh; very strong; hard; (Salina Group - Unit C).

0°-5°,B,MW,anhydrite,Fi,WA @ 401.6', 401.7'

DOLOMITE; crystalline; very dark gray to olive black; micritic; fresh; very strong; hard; banded w/anhydrite seams & nodules; (Salina Group - Unit C).

Core box #38 starts @ 392.7'.

Core box #39 starts @ 402.0'.



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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				
SAMPLING				LOGGED BY Bonnie/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						
PQ	80	5.0	5.0	5.0	100	100	405		175			
							406		174			
							407		173			
							408		172			
							409		171			
							410		170			
							411		169			
							412		168			
							413		167			
							414		166			
							415		165			
							416		164			
							417		163			
							418		162			
							419		161			
							420					

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**BLACK & VEATCH****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' E 4592.8'										GROUND ELEVATION (DATUM) 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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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																																																																																																						
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										421.0																				421.5																																																																															
PQ										83										5.0										5.0										5.0										100										100																																																	
																				422										159																																																																															
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PQ										84										5.0										5.0										5.0										100										100																																																	
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PQ										85										5.0										4.7										4.7										94										94																																																	
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0°,B,MW,anhydrite,Fi,PI @ 434.4'

Core box #41 starts @ 420.4'.

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'

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'

DOLOMITE; interbedded gray & black; micritic; fresh; very strong; hard; w/anhydrite nodules; (Salina Group - Unit C).

ANHYDRITE interbedded with DOLOMITE; white; crystalline; fresh; strong; low hardness; banded w/ convoluted bedding; (Salina Group - Unit B).

Core box #42 starts @ 429.2'.

PQ-85: Initially no recovery. Went back into recover 4.5' of core. Remaining 0.2' recovered from run PQ-86.

DOLOMITE; interbedded sequence grading downward from pale yellowish brown to olive black; micritic; fresh; very strong; hard; convoluted; (Salina Group - Unit B).



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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' E 4592.8'										GROUND ELEVATION (DATUM) 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																																																																					
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY								<table border="1"> <tr> <th>CORING</th> <th>DEPTH (FEET)</th> <th>SAMPLE TYPE</th> <th>ELEVATION (FEET)</th> <th>GRAPHIC LOG</th> <th>CLASSIFICATION OF MATERIALS</th> <th>REMARKS</th> </tr> <tr> <td>CORE SIZE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN NUMBER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN LENGTH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RUN RECOVERY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RQD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PERCENT RECOVERY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>RQD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										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																
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PERCENT RECOVERY																																																																																																			
RQD																																																																																																			
PQ	86	5.0	5.0	5.0	100	100	435				DOLOMITE; mottled light gray & dark gray; micritic; fresh; very strong; hard; (Salina Group - Unit B).																																																																																								
							436	145			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'																																																																																								
							437	144																																																																																											
							438	143			30°, J, MW, anhydrite, Fi, PI @ 437.9'																																																																																								
							439	142			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'																																																																																								
							440	141																																																																																											
							441	140			DOLOMITE; light gray & dark gray, mottled; micritic; fresh; very strong; hard; (Salina Group - Unit B).																																																																																								
							442	139			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	138			ANHYDRITE & DOLOMITE; dark gray & light brownish gray; micritic; fresh; strong; intermingled; (Salina Group - Unit B).																																																																																								
							444	137																																																																																											
							445	136																																																																																											
							446	135			DOLOMITE; crystalline; light brownish gray & olive black; banded; micritic; fresh; very strong; hard; w/ anhydrite nodules; (Salina Group - Unit B).																																																																																								
							447	134																																																																																											
PQ	88	5.0	5.0	5.0	100	100	448	133			DOLOMITE & ANHYDRITE; light brownish gray & dark gray; micritic; fresh; very strong; hard; w/ occasional olive black partings; (Salina Group - Unit B).																																																																																								
							449	132																																																																																											
							450	131																																																																																											

Core box #43 starts @ 439.4'.

Water level @ 23.0' prior to drilling on 07/18/07.

Core box #44 starts @ 448.3'.

**BLACK & VEATCH****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' E 4592.8'										GROUND ELEVATION (DATUM) 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																																														
<table border="1"> <tr> <th>SAMPLE TYPE</th> <th>SAMPLE NUMBER</th> <th>SET 6 INCHES</th> <th>2ND 6 INCHES</th> <th>3RD 6 INCHES</th> <th>N VALUE</th> <th>SAMPLE RECOVERY</th> </tr> </table>										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									
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	N VALUE	SAMPLE RECOVERY																																																																						
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CORE SIZE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	PERCENT RECOVERY	RQD																																																																						
PQ 89 5.0 5.0 5.0 100 100										450.0																																																																		
PQ 90 5.0 5.0 5.0 100 100										451.0																																																																		
PQ 91 5.0 5.0 5.0 100 100										456.0																																																																		

**BLACK & VEATCH****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' E 4592.8'										GROUND ELEVATION (DATUM) 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 Bonnie/Grainger										CHECKED BY TB 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		DEPTH (FEET)		SAMPLE TYPE		ELEVATION (FEET)		GRAPHIC LOG		CLASSIFICATION OF MATERIALS																				REMARKS																			
PQ		92		5.0		5.0		5.0		100		100		465				115				0° B, MW, anhydrite, Fi, PI @ 464.4'																																							
														466				114				DOLOMITE; argillaceous; light brownish gray & gray; micritic; fresh; strong; hard; banded w/stylolites; (Salina Group - Unit B).																				Core box #46 starts @ 466.0'.																			
														467				113				ANHYDRITE; crystalline; dark gray & dark grayish brown; micritic; fresh; strong; low hardness; w/ convoluted deposits of brown dolomite; (Salina Group - Unit B).																																							
														468				112																																											
														469				111																																											
														470				110																																											
														471																																															
														472				109																								Bottom of boring @ 471.1'. Water level not recorded at completion of drilling. Backfilled w/ bentonite chips on 09/15/07.																			
														473				108																																											
														474				107																																											
														475				106																																											
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														479				102																																											
														480				101																																											



BLACK & VEATCH

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' E 4615.9'										GROUND ELEVATION (DATUM) 580.6 ft (NAVD 88)										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 Mass/Ang/Bonnie										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																			
														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.																			
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BLACK & VEATCH

BORING LOG

BORING NO. TB-C6

SHEET 2 OF 4

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SPT										5					11					30					33					63					1.2					17					563					Lean CLAY (CL) - About 100% medium plasticity, medium toughness, no dilatancy fines; brown; hard; moist; trace pieces of subrounded, coarse gravel w/ max. size 1¼", fractured w/2 hammer blows; (Glacial Till).					17.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SPT										7					15					24					17					41					0.9					19					561					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 ½", fractured w/2 hammer blows; sand seams; dark gray; hard; moist; (Glacial Till).					21.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

**BLACK & VEATCH****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'					580.6 ft (NAVD 88)					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 E.C.A. TB Mass/Ang/Bonnie					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															
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												
HQ	1	3.0	3.0	1.9	100	63	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.					
							37		543												
							38		542												
			38.5				39		541		shale partings - 0°, B,PI,SR @ 38.9', 39.1', 39.3', 39.6', 39.7', 40.0'										
							40		540												
HQ	2	5.3	5.3	1.2	100	23	41		539		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'										
							42		538												
							43		537												
							44		536		70°, J,Ca/CI,Pa,PI,SR @ 44.3-44.9'										
			43.8				45		536		gray, mottled; fine grained (crystalline); slightly										

4/16/2008 2:18 PM DTE - Fermi 3 Geotech



4/16/2008 2:18 PM DTE - Fermi 3 Geotech

CLIENT										PROJECT										SHEET NO. OF 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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**BLACK & VEATCH****BORING LOG**

BORING NO. WT-E1

SHEET 2 OF 2

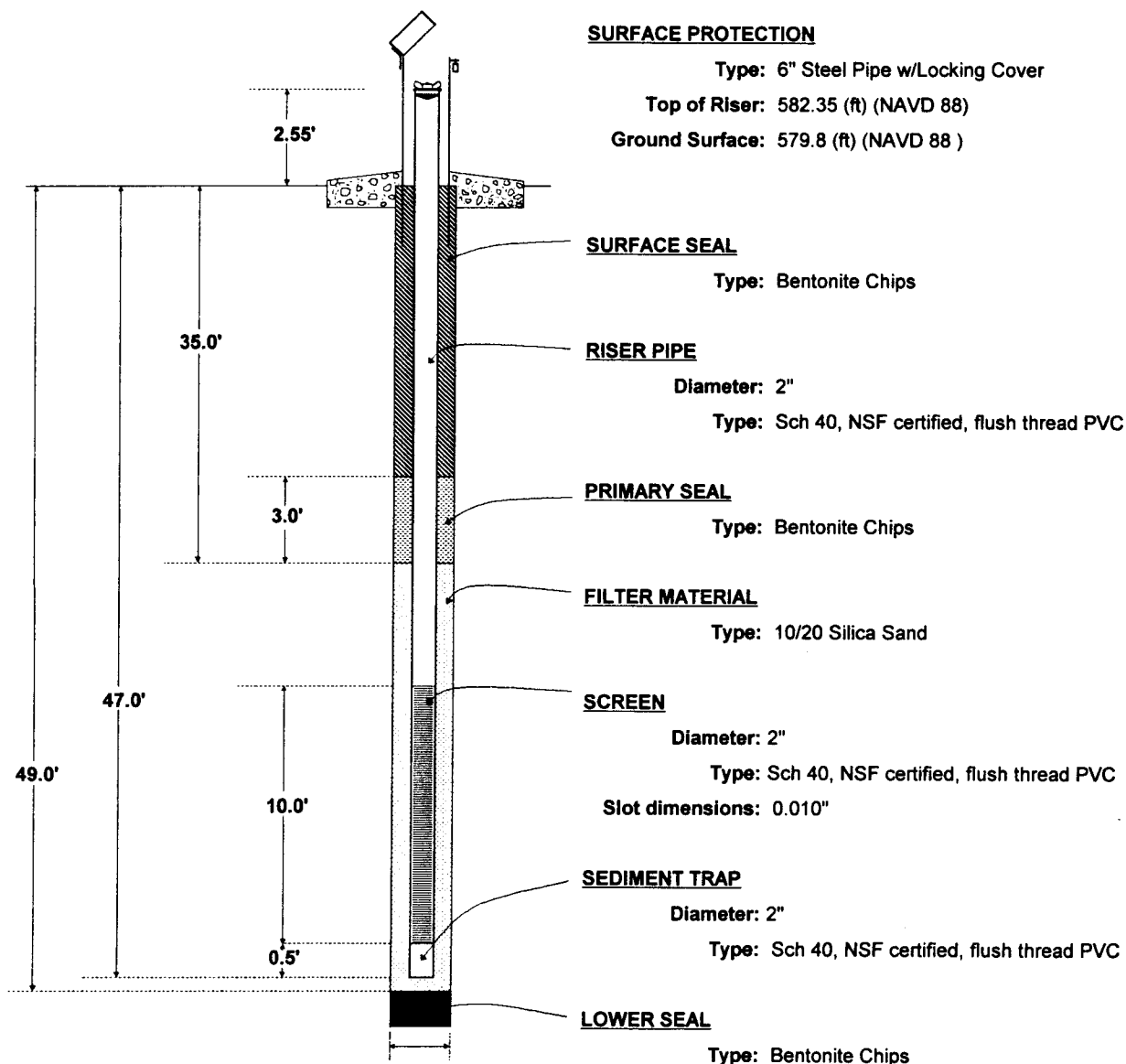
CLIENT Detroit Edison					PROJECT Fermi 3 COL Application					PROJECT NO. 147483									
PROJECT LOCATION Monroe, MI					COORDINATES N 6223.8'					GROUND ELEVATION (DATUM) E 4982.6' 580.5 ft (NAVD 88)					TOTAL DEPTH 27.1 (feet)				
SURFACE CONDITIONS Asphalt parking lot					COORDINATE SYSTEM Plant					DATE START 08/22/07					DATE FINISHED 08/23/07				
SAMPLING					LOGGED BY Grainger					CHECKED BY Dogbey/Bonnie TB					APPROVED BY 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 RECOVERY	PERCENT RECOVERY	RQD	DEPTH (FEET)	SAMPLE TYPE	ELEVATION (FEET)	GRAPHIC LOG	CLASSIFICATION OF MATERIALS	REMARKS							
							15												
SPT	3	4	15.5	6	10	0.2	16		565			Below 15.5' continued w/NWJ rods & 4 1/2" tricone bit using bentonite mud as drilling fluid.							
							17		564										
							18		563										
TW	4					1.8	19		562		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).								
							20		561										
							21		560			PP > 4.5 TSF @ 20.0'.							
TW	5					0.5	22		559										
							23		558										
							24		557		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'.							
SPT	6	7	11	50/5"	50+	NR	25		556										
							26		555										
							27		554			Tricone refusal @ 27.1'.							
							28		553			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.							
							29		552										
							30		551										

**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>	



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.

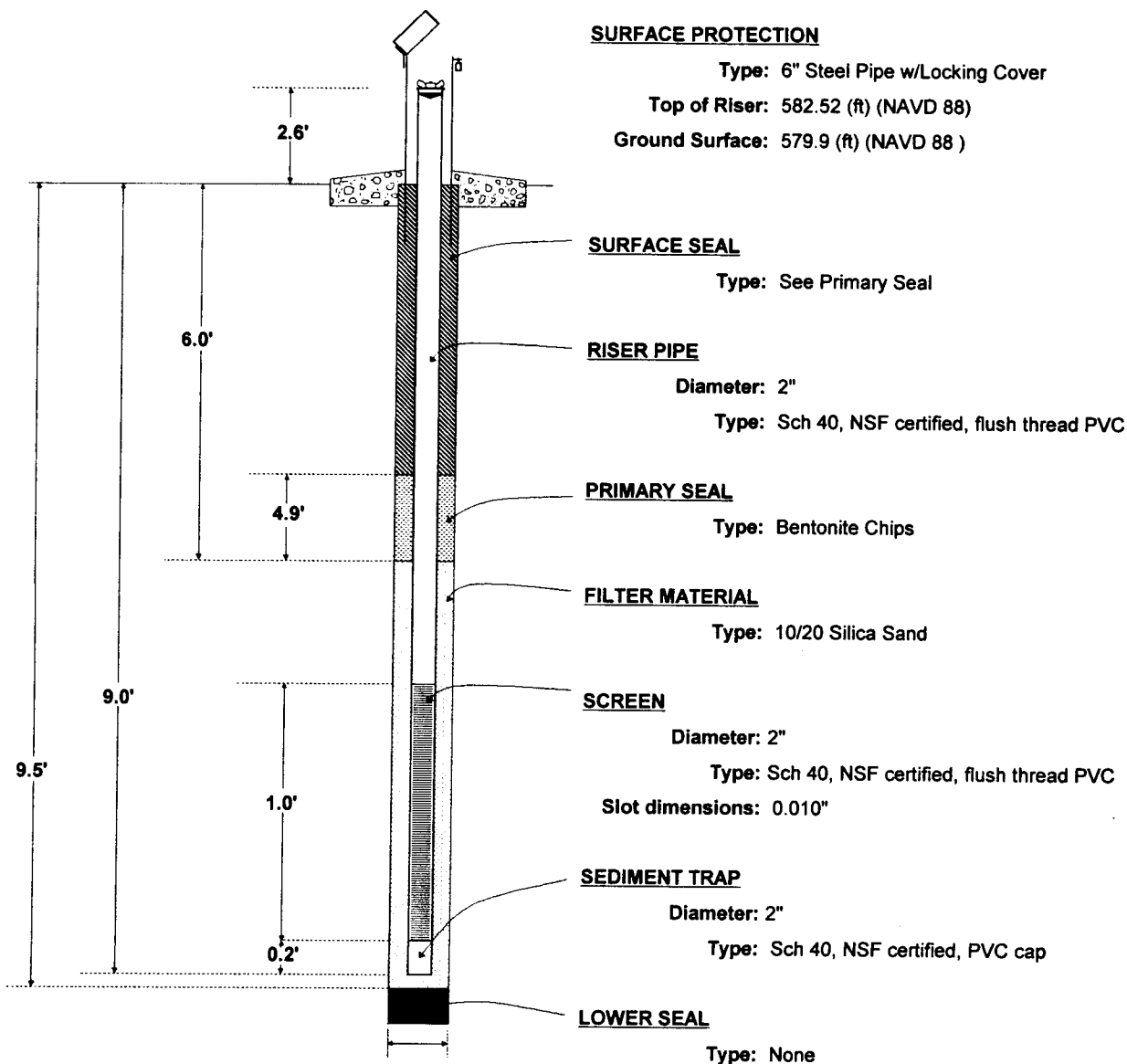
NOTES: Developed by pumping 80 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-381S

SHEET 1 OF 1

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 Ohlmacher <i>GO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</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; no additional filter required; placed bentonite seal; installed protective cover w/concrete pad at surface.

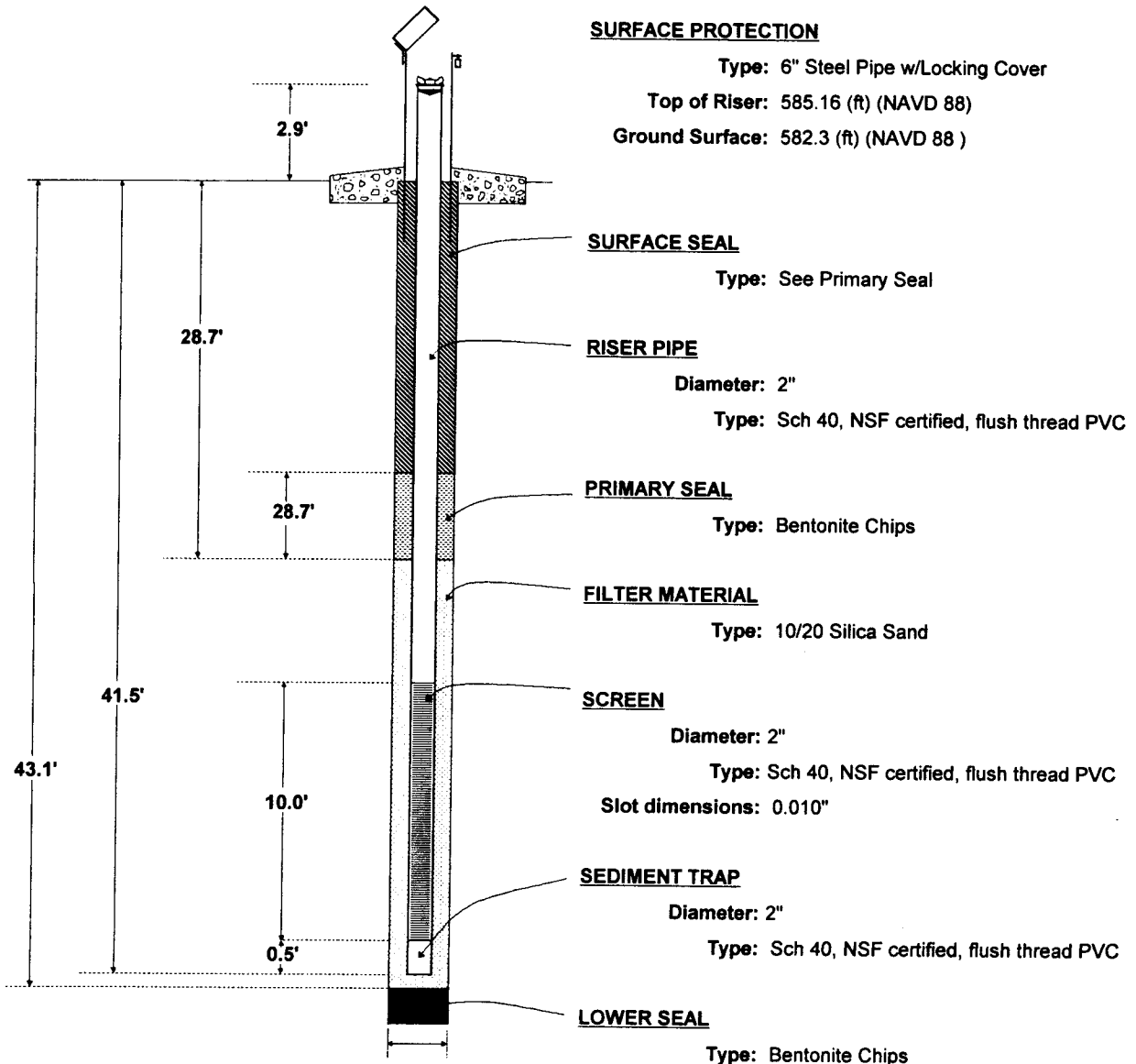
NOTES: Bottom cap attached w/stainless steel screws. Developed by pumping 3 gallons of water - pumped dry.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-383D

SHEET 1 OF 1

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 <i>CO</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	



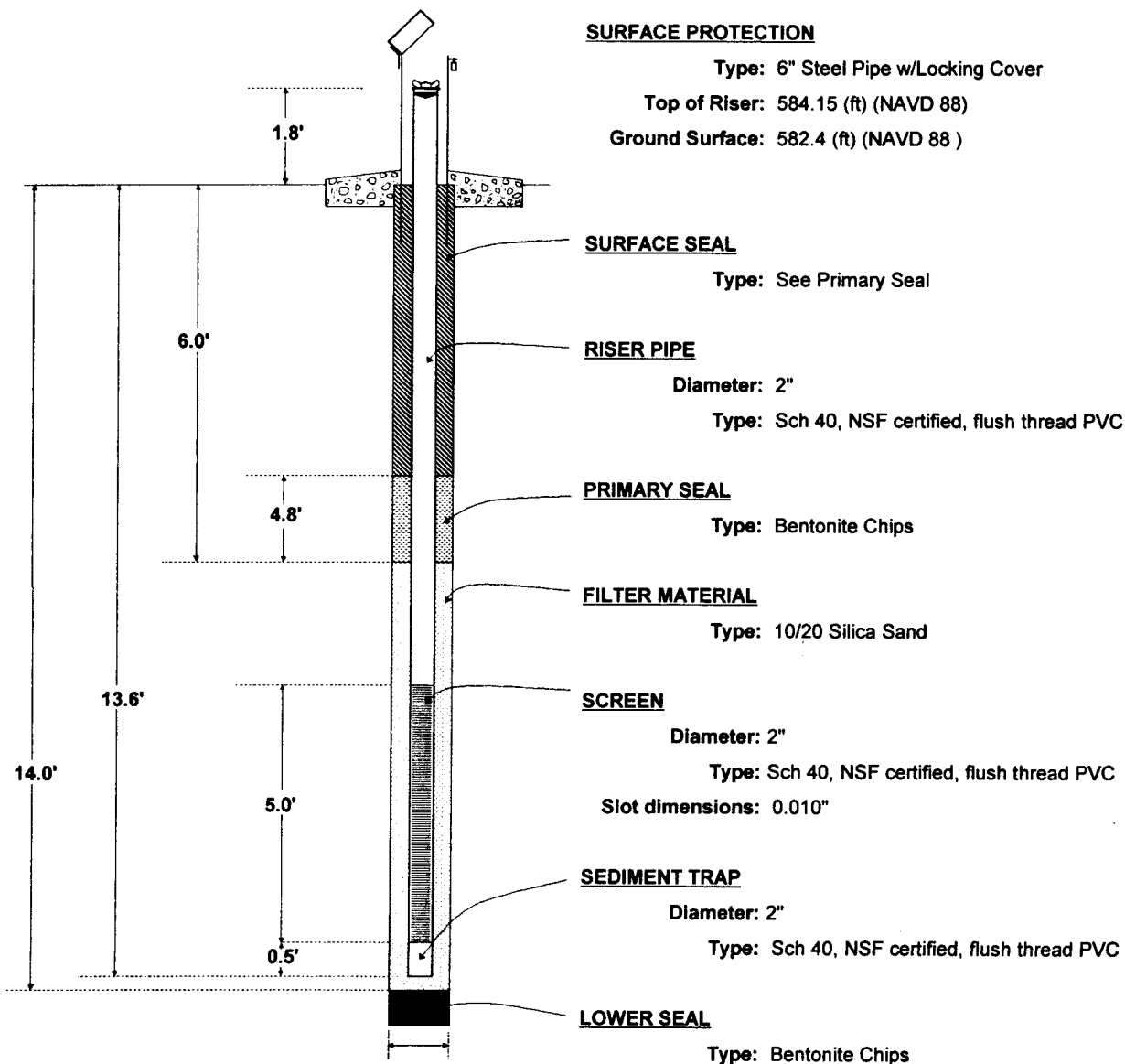
*Note-Diagram not shown to scale

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.

**BLACK & VEATCH****MONITORING WELL****MONITORING WELL NO. MW-383S****SHEET 1 OF 1**

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 5809.1' E 3432.7'	TOP OF RISER ELEVATION (DATUM) 584.15 ft (NAVD 88)	DATE 05/16/07
STRATUM MONITORED Sandy Lean Clay, Lean Clay			
INSPECTOR Ohlmacher <i>EO</i>	CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</i>	

**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.

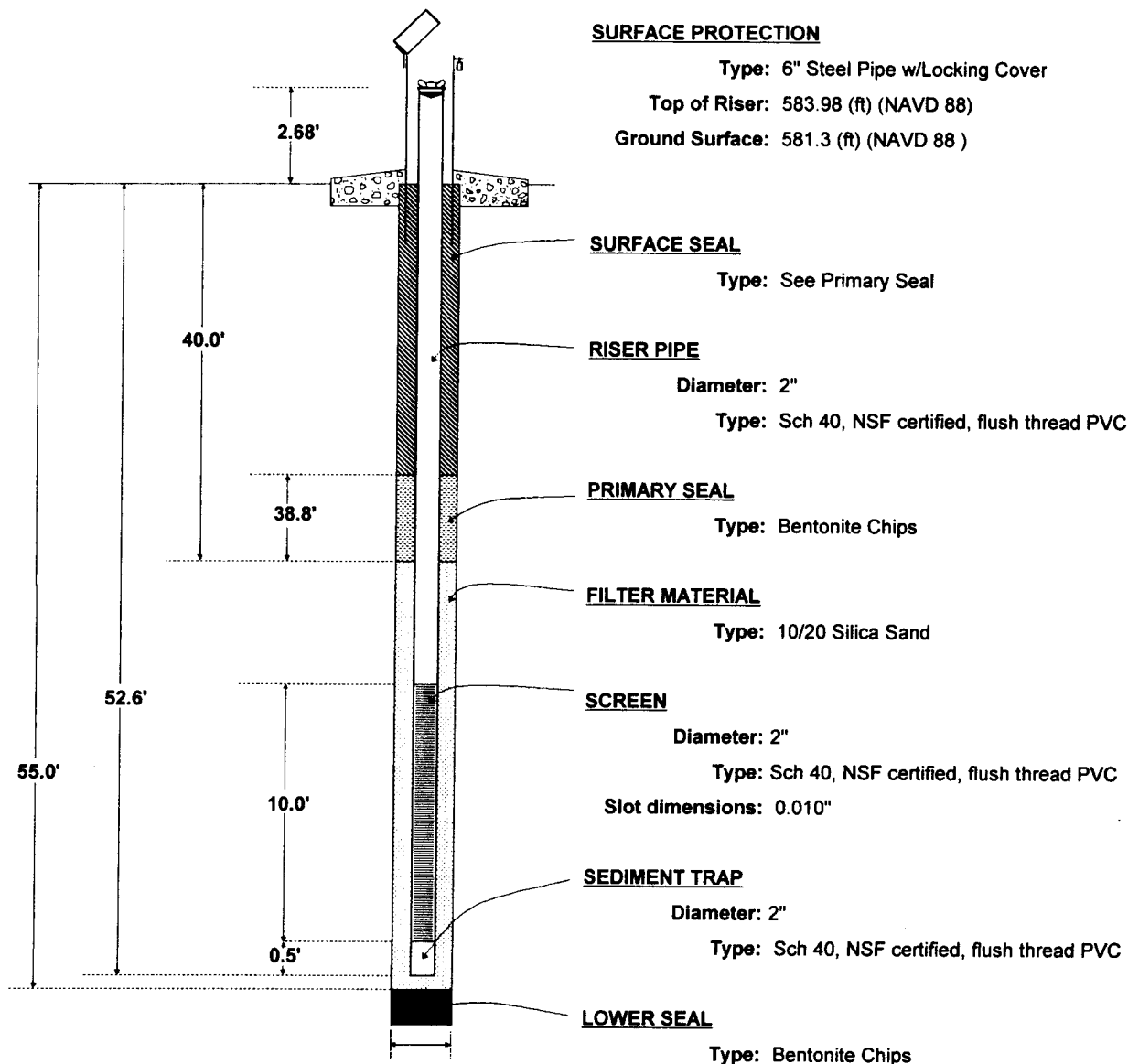
NOTES: Developed by pumping 34.8 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-384D

SHEET 1 OF 1

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>	



*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.

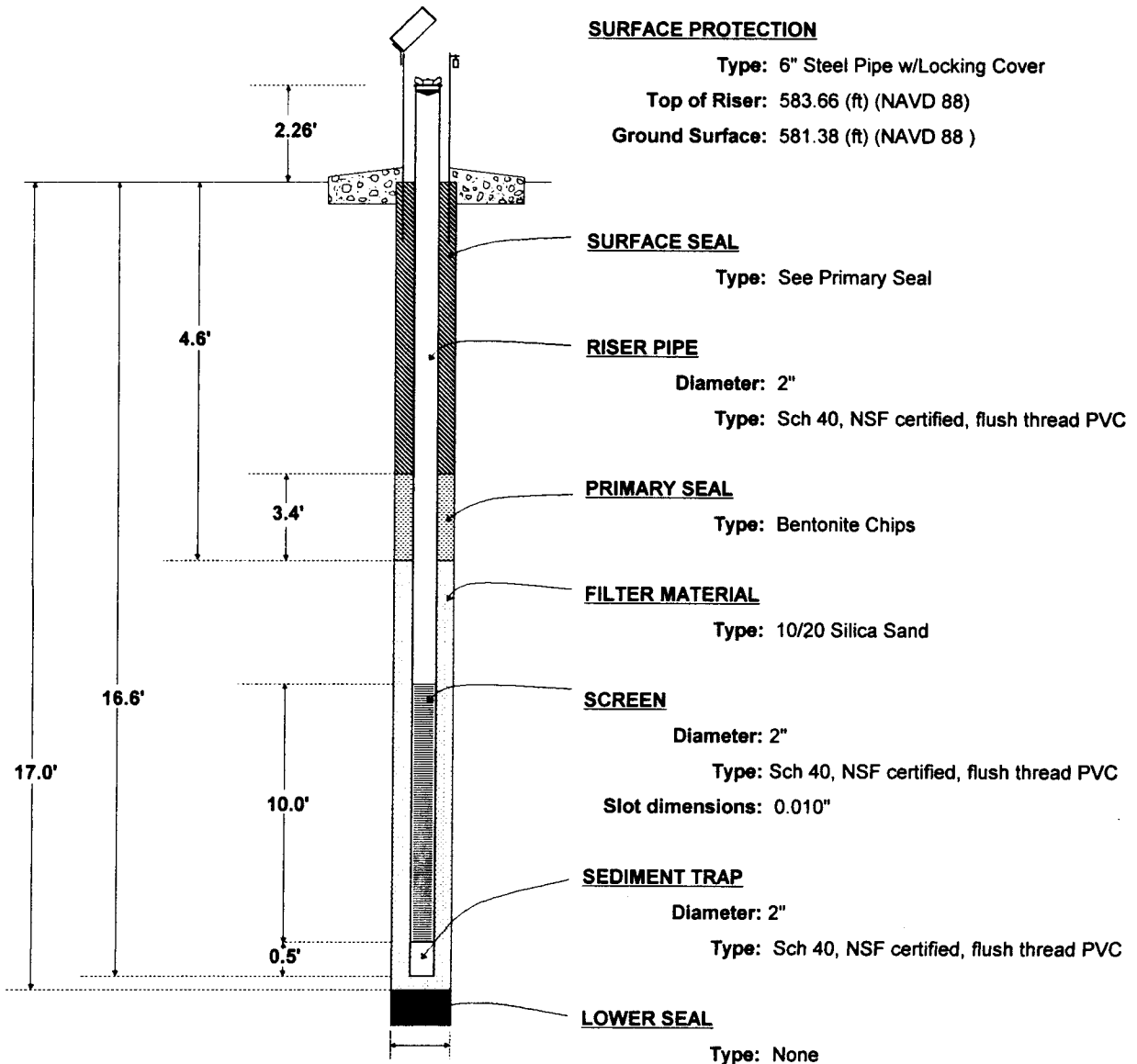
NOTES: Developed by pumping 110 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-384S

SHEET 1 OF 1

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>	



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.

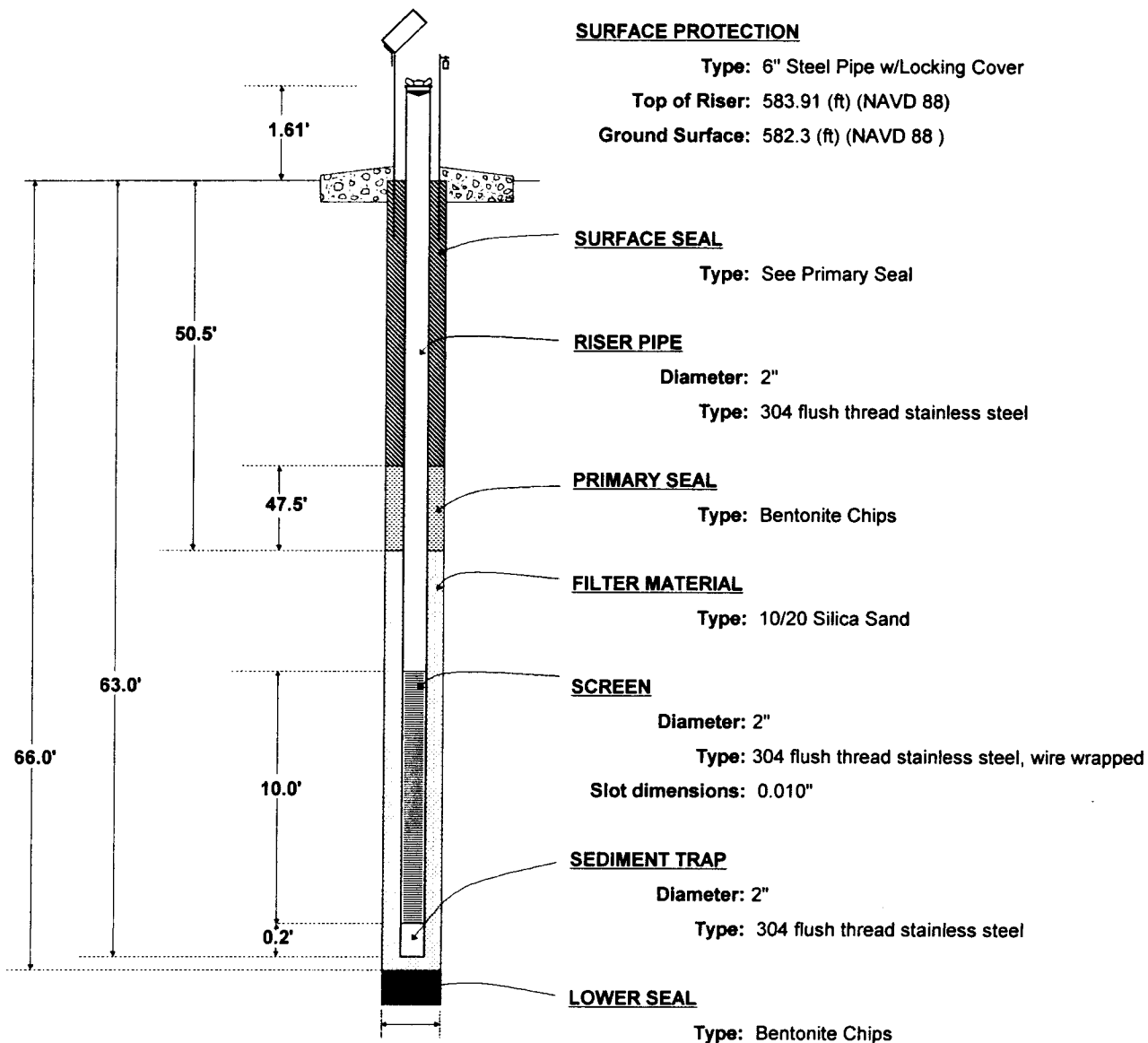
NOTES: Developed by pumping 76.5 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-386D

SHEET 1 OF 1

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	



*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.

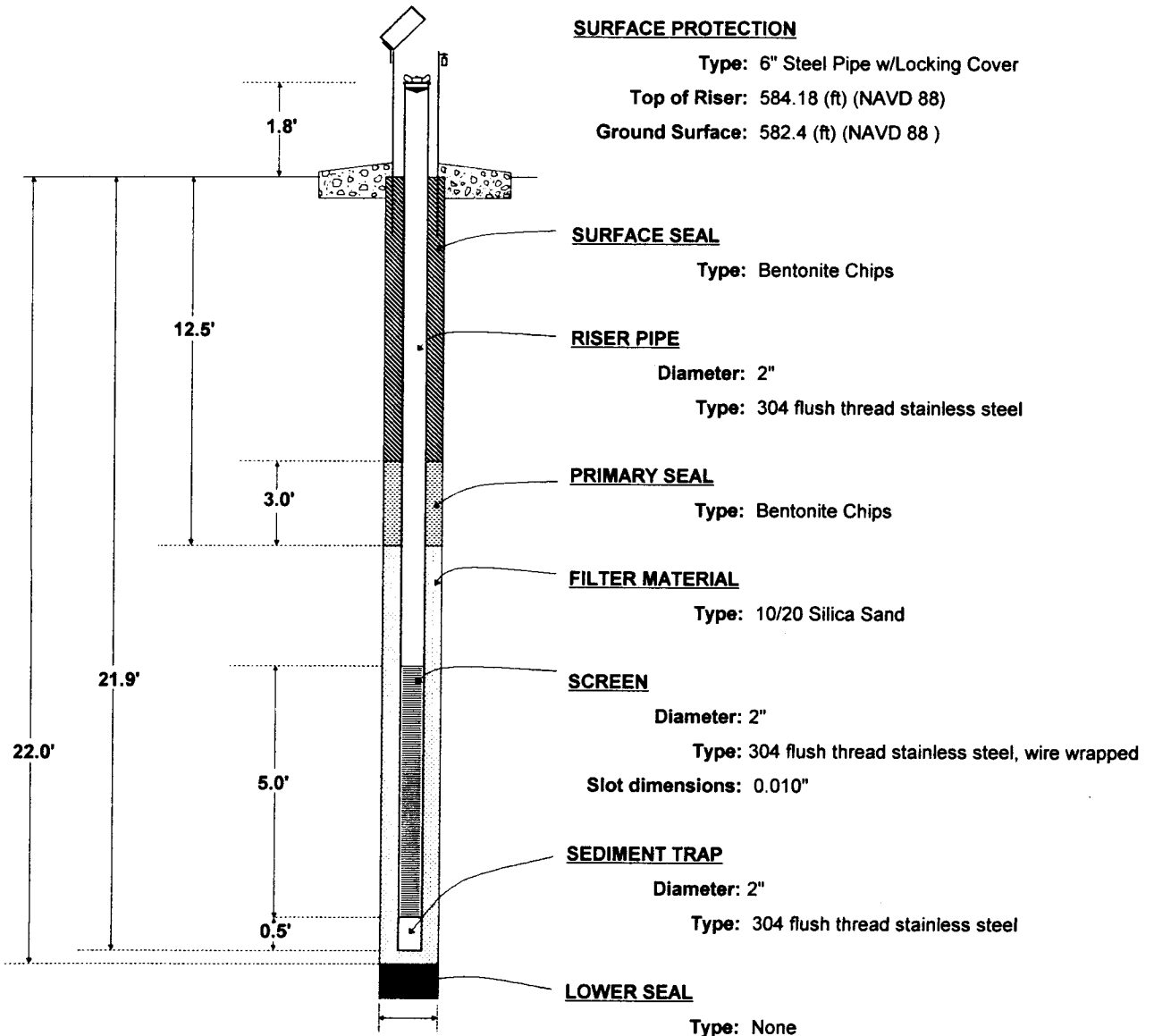
NOTES: Developed by pumping 455 gallons of water.

**BLACK & VEATCH****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>gk</i>	CHECKED BY Meyer <i>sm</i>	APPROVED BY Meyer <i>sm</i>	



*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.

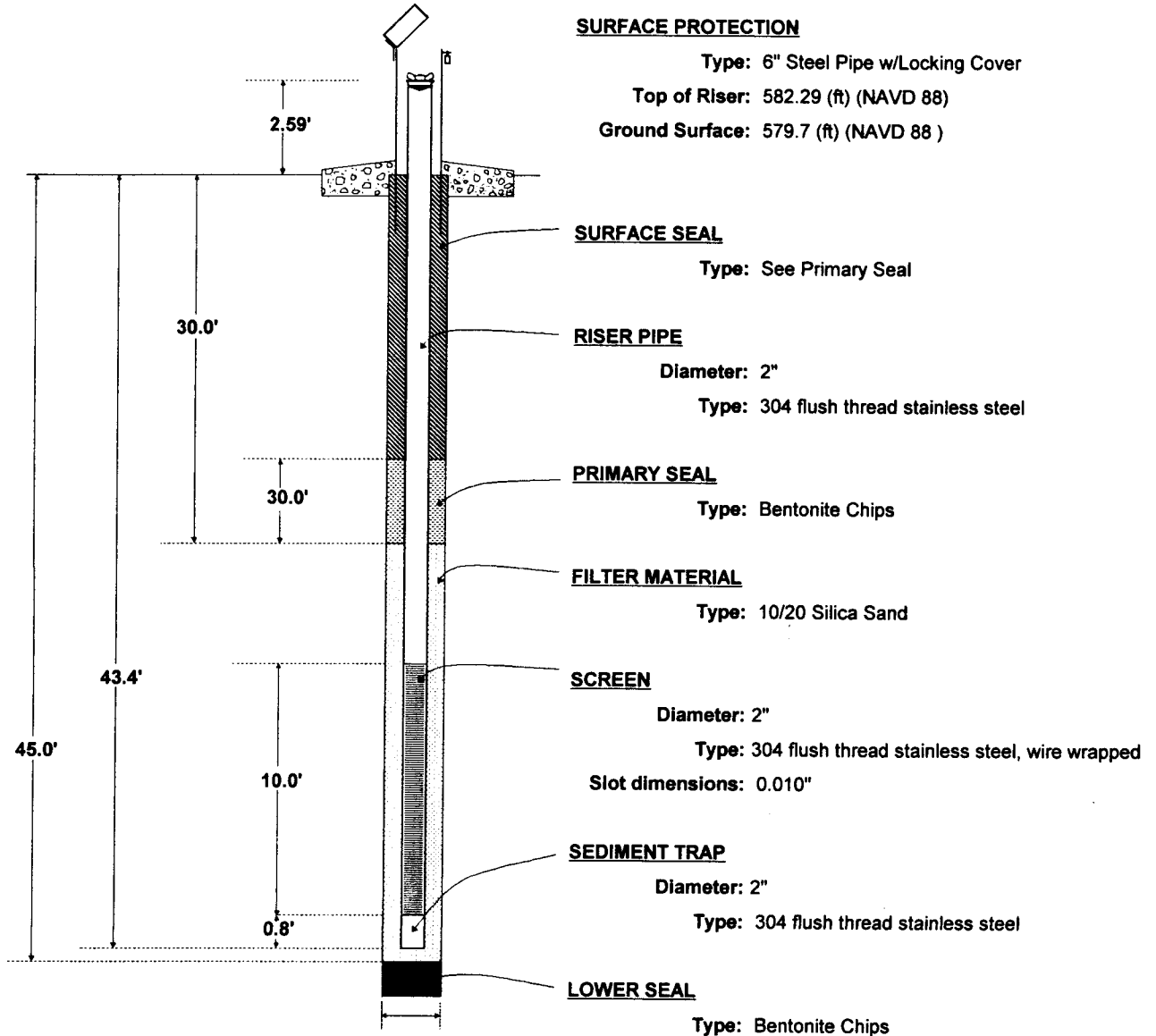
NOTES: Developed by pumping 34.5 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-387D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6660.2' E 4150.1'	TOP OF RISER ELEVATION (DATUM) 582.29 ft (NAVD 88)	DATE 06/01/07
STRATUM MONITORED Lean Clay, Bass Islands Group Dolomite			
INSPECTOR <i>[Signature]</i> Duncan		CHECKED BY Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>

**BORING DIAMETER**

DIAMETER: 6": 0-30.7', 4.8": 30.7'-45.0'

*Note-Diagram not shown to scale

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.

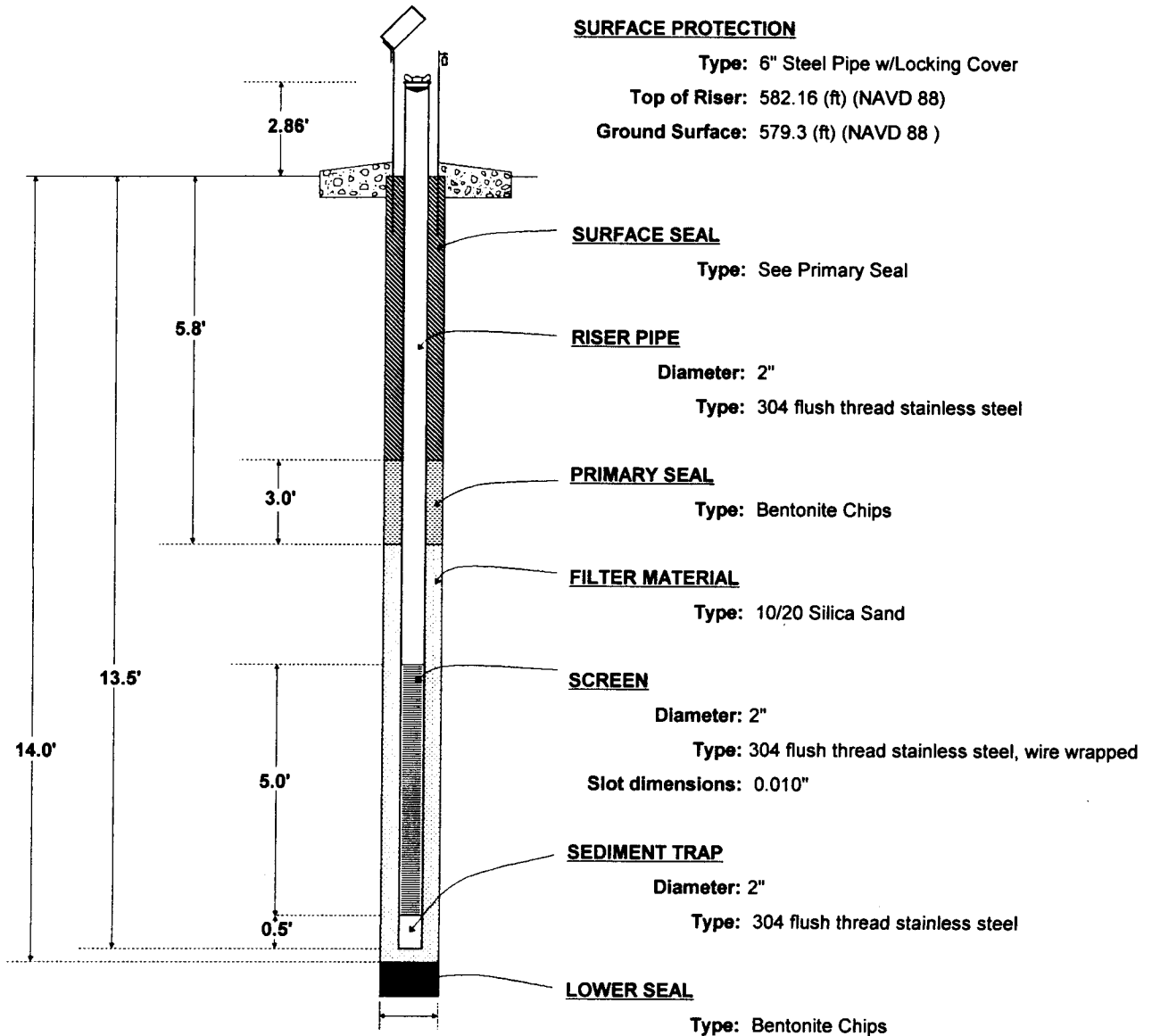
NOTES: Developed by pumping 142 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-387S

SHEET 1 OF 1

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 <i>[Signature]</i> Meyer	APPROVED BY <i>[Signature]</i> Meyer	

**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.

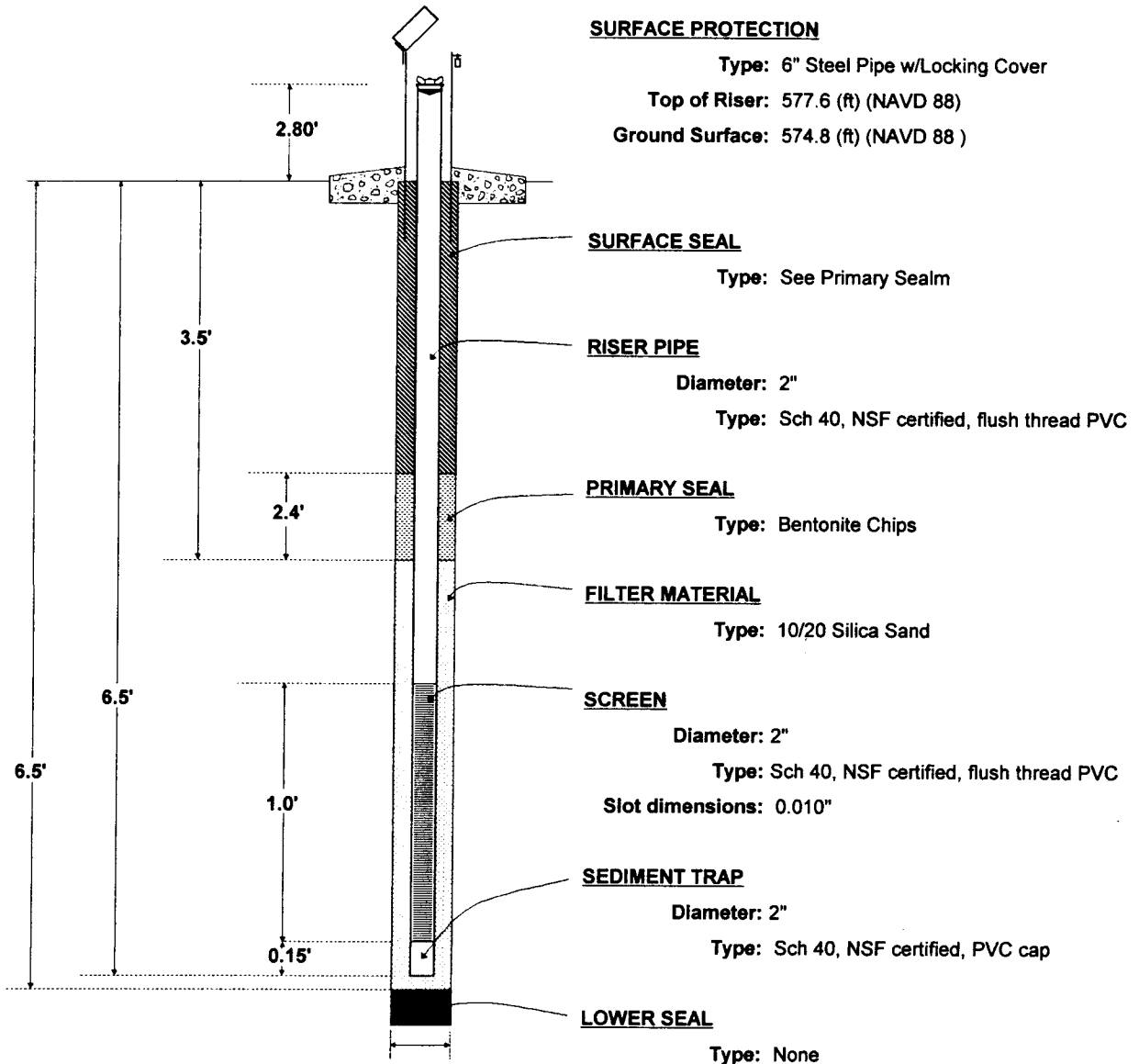
NOTES: Developed by pumping 44 gallons of water over multiple days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-388S

SHEET 1 OF 1

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>	

**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.

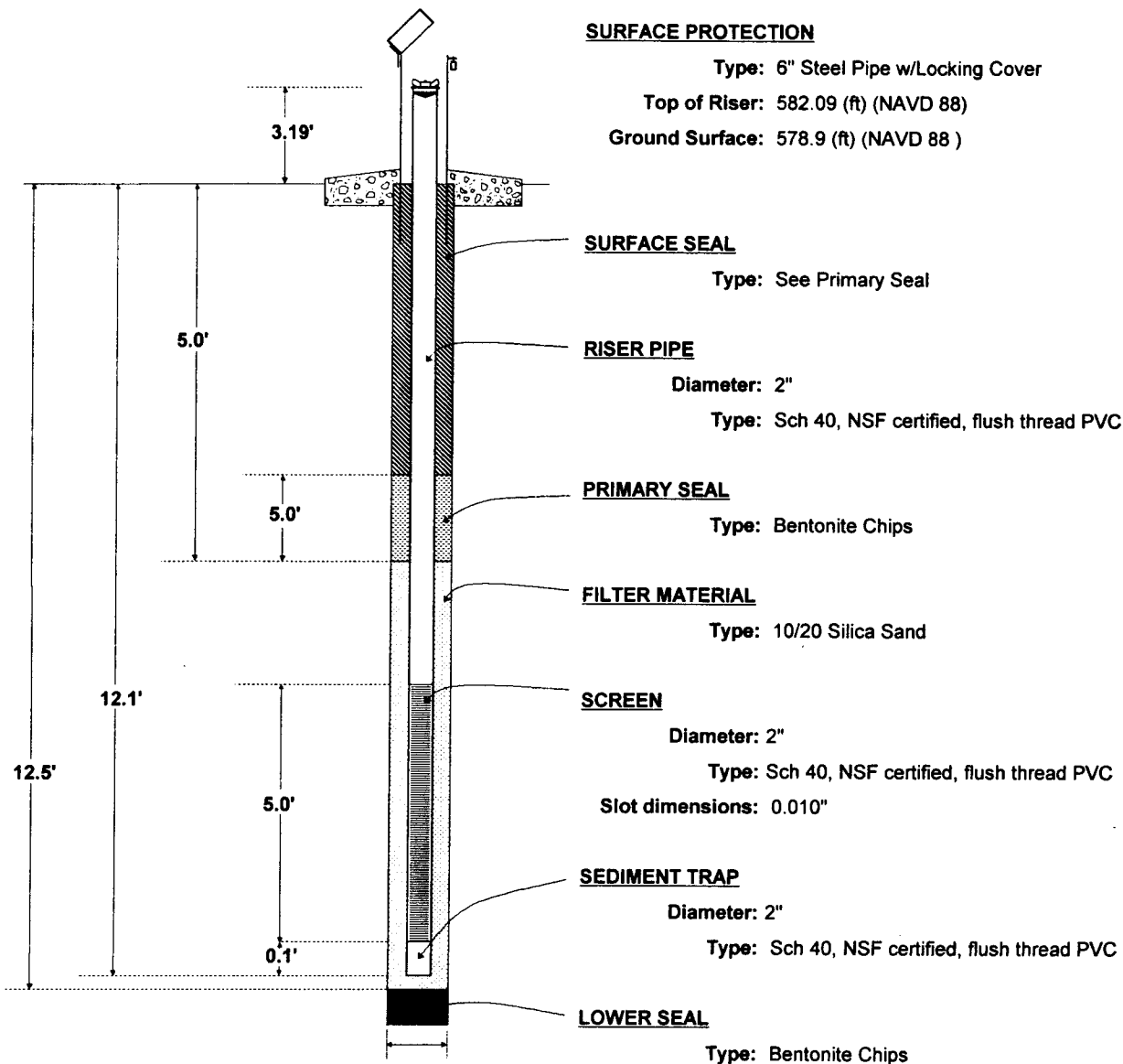
NOTES: Bottom cap attached w/stainless steel screws. Dry at time of installation - not developed.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-390S

SHEET 1 OF 1

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.

**BLACK & VEATCH****MONITORING WELL**

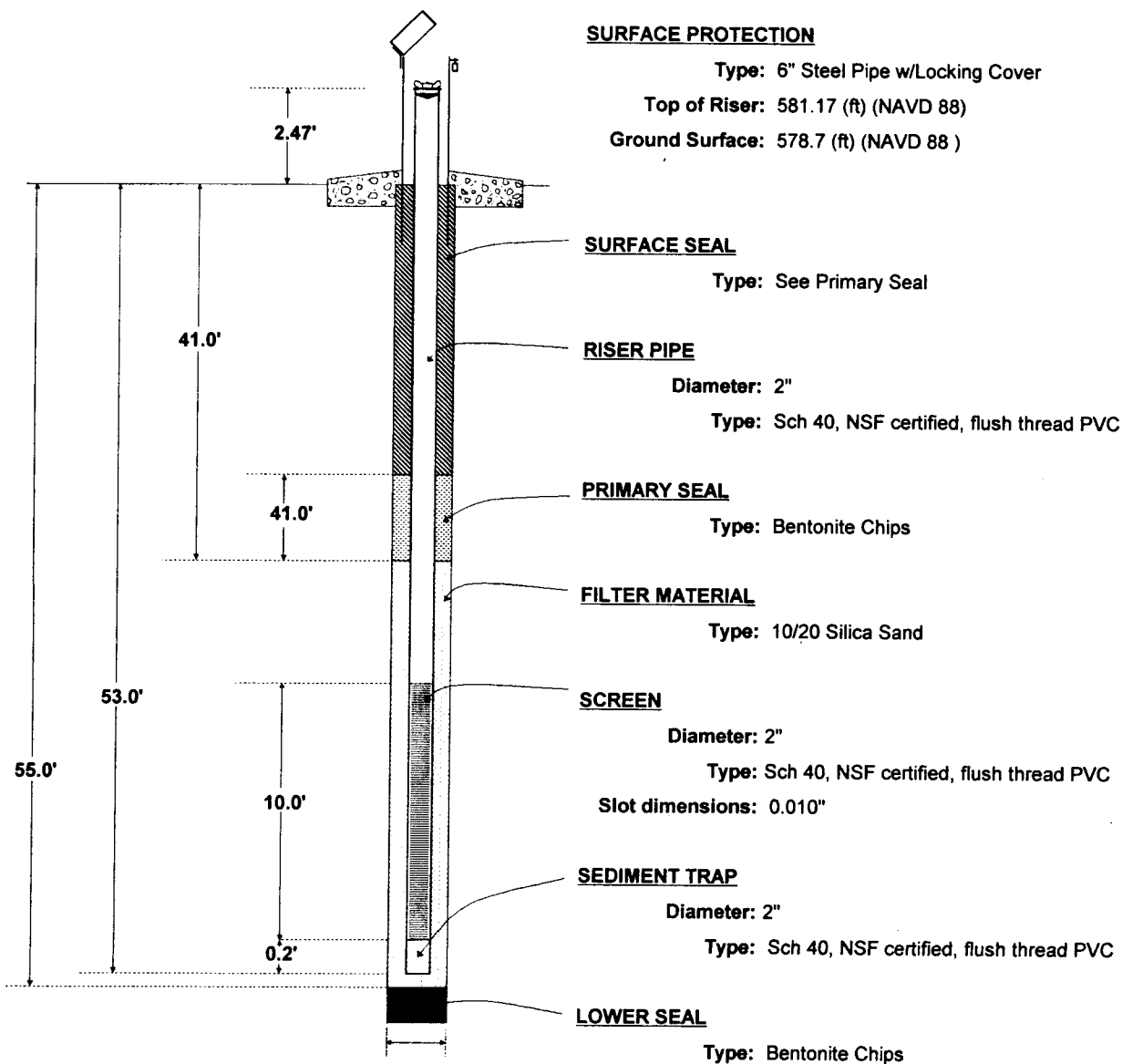
MONITORING WELL NO. MW-391D

SHEET 1 OF 1

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 *Geo*
Ohlmacher/DuncanCHECKED BY
Meyer *sm*APPROVED BY
Meyer *sm***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.

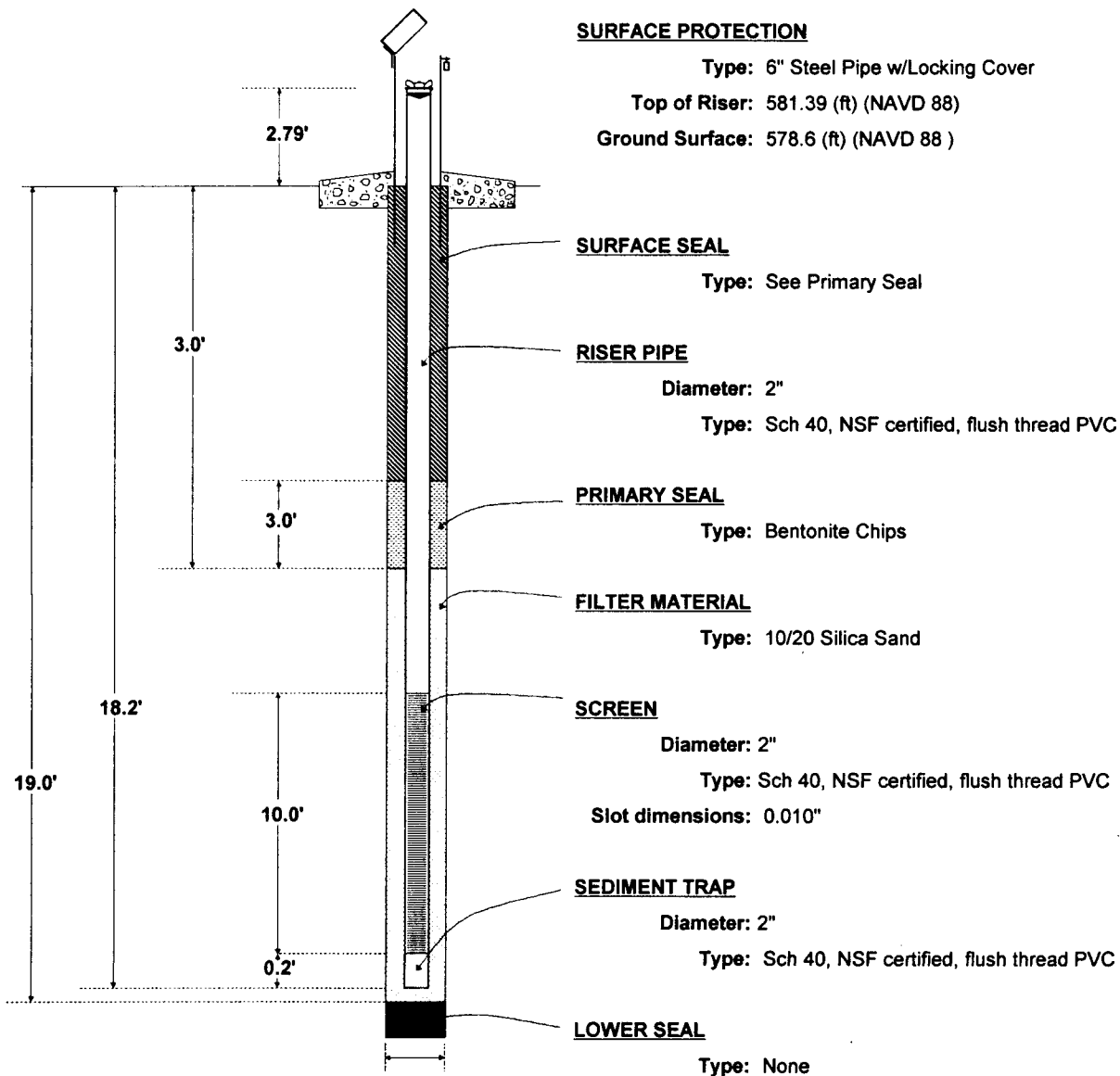
NOTES: Developed by pumping 141 gallons of water. Pumped on two separate days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-391S

SHEET 1 OF 1

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>	

**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.

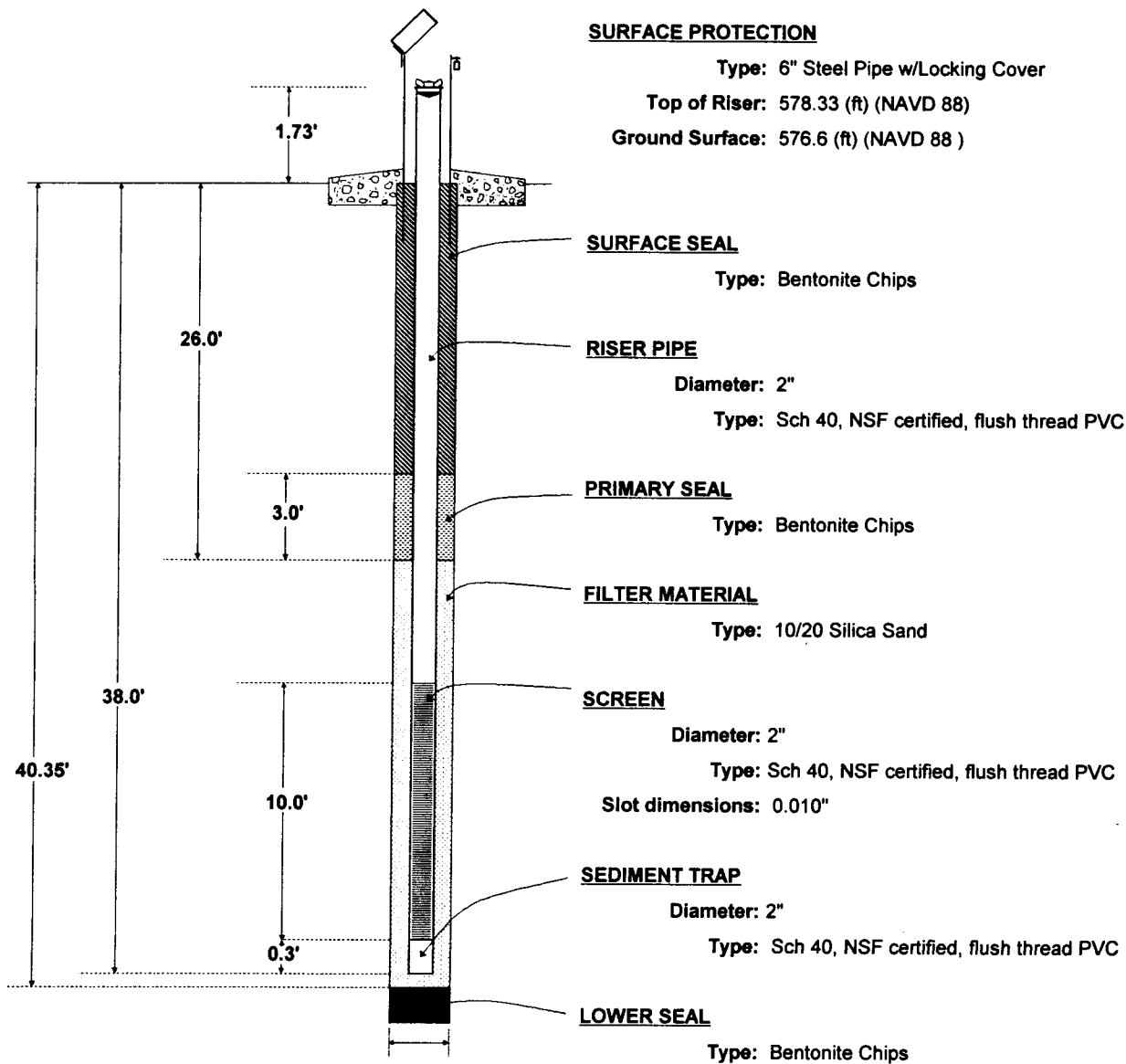
NOTES: Developed by pumping 105 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-393D

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 9367.4' E 2922.8'	TOP OF RISER ELEVATION (DATUM) 578.33 ft (NAVD 88)	DATE 06/06/07
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": 0-14', 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.

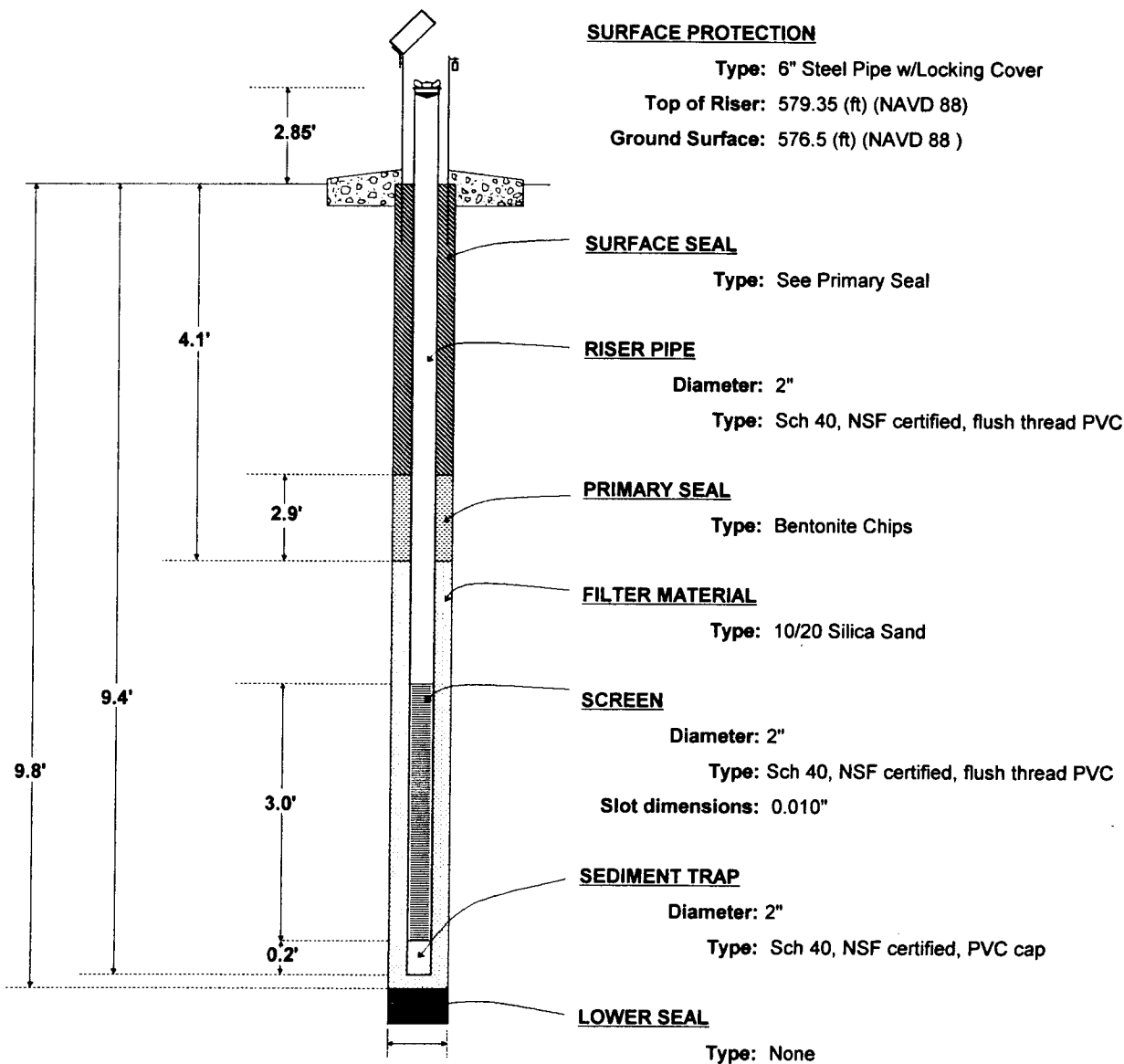
NOTES: Developed by pumping 695 gallons of water. Pumped on three separate days.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-393S

SHEET 1 OF 1

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>	

**BORING DIAMETER****DIAMETER: 8"**

*Note-Diagram not shown to scale

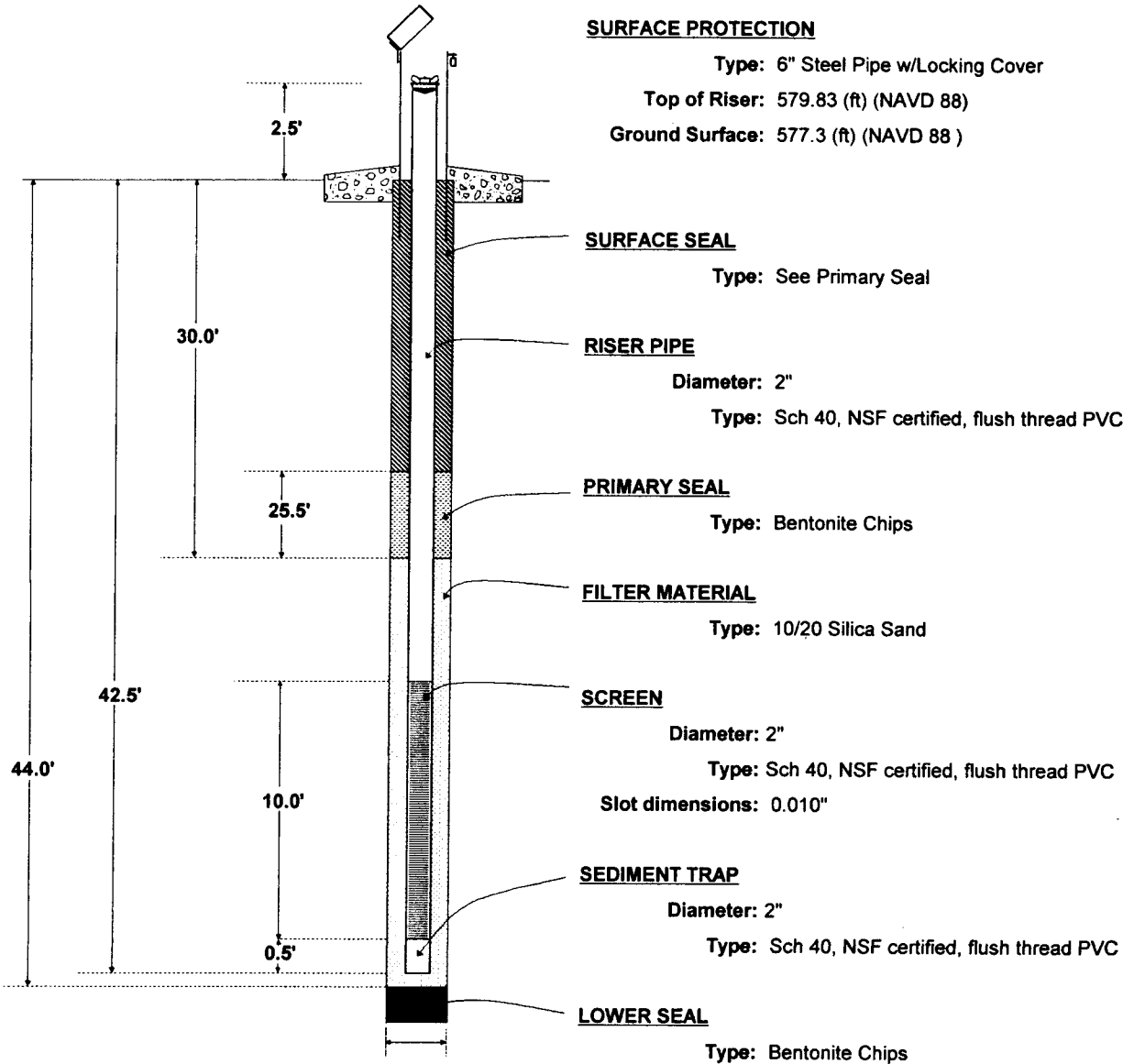
INSTALLATION METHOD: Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Bottom cap attached w/stainless steel screws. Developed by pumping 12 gallons of water over a multiple day period - pumped dry multiple 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>GO</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.

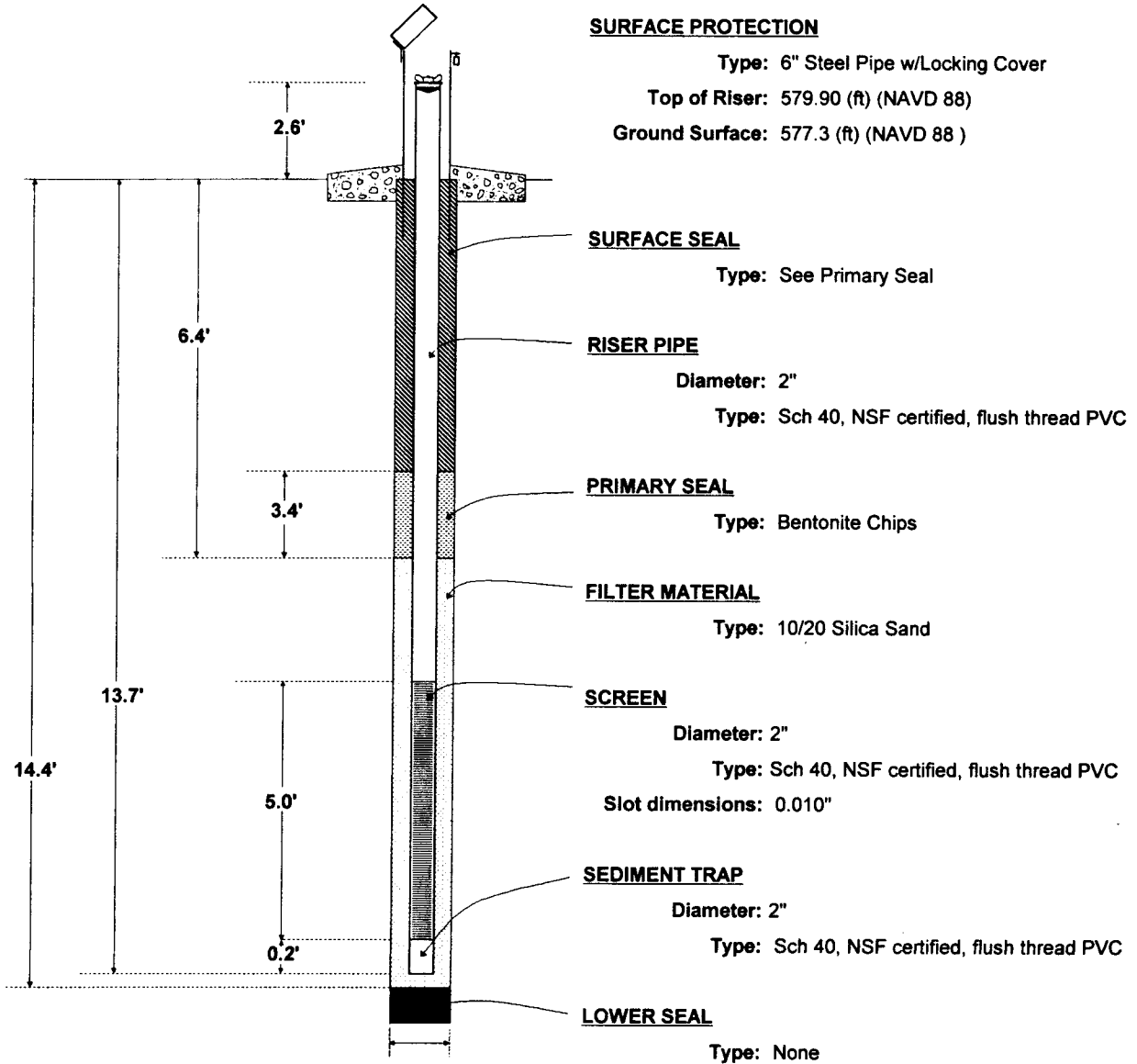
NOTES: Developed by pumping 220 gallons of water.

**BLACK & VEATCH****MONITORING WELL**

MONITORING WELL NO. MW-395S

SHEET 1 OF 1

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 Meyer <i>[Signature]</i>	APPROVED BY Meyer <i>[Signature]</i>	

**BORING DIAMETER****DIAMETER: 6"**

*Note-Diagram not shown to scale

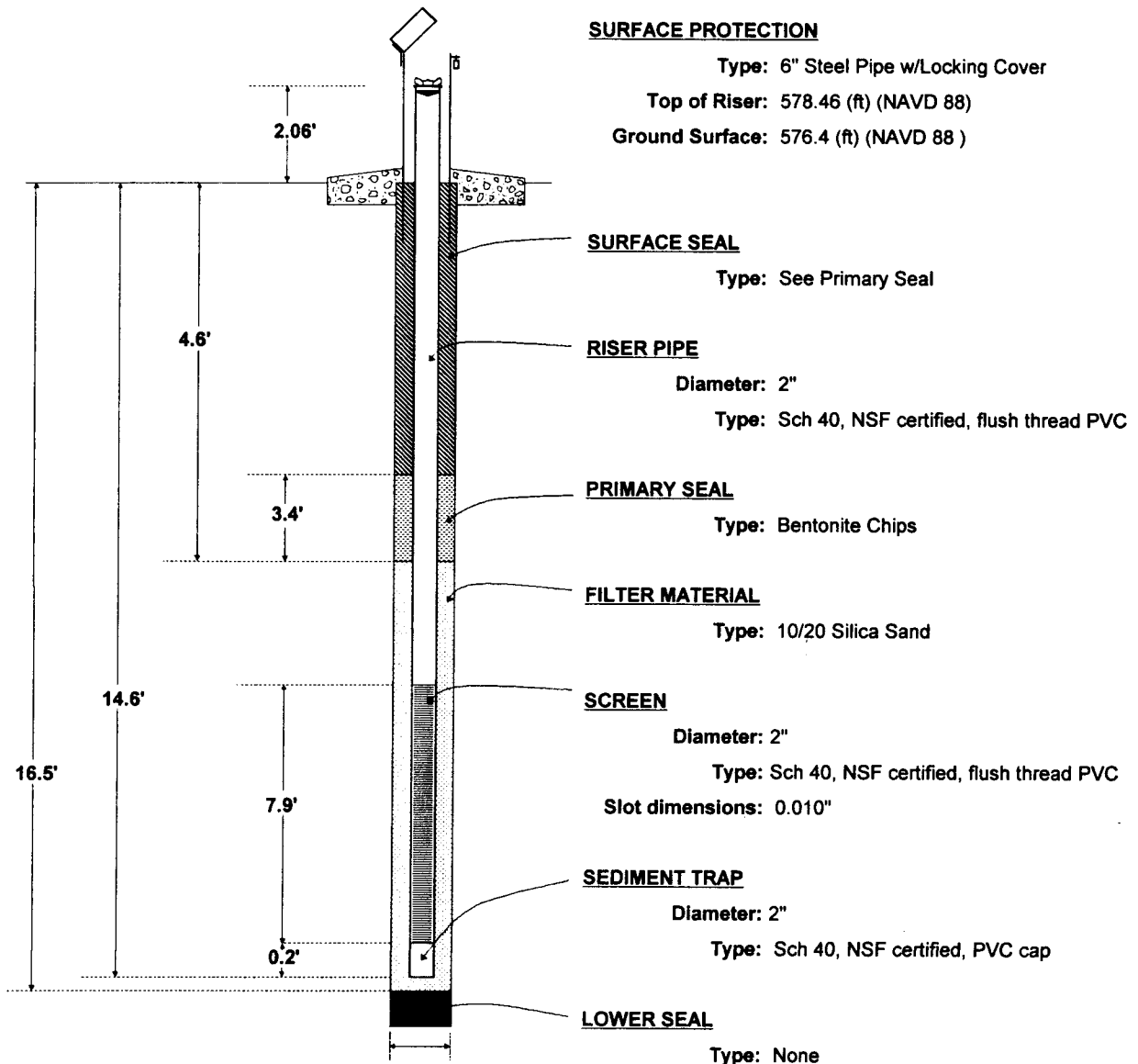
INSTALLATION METHOD: Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Developed by pumping 255 gallons of water. Pumped on two separate days.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-382S

SHEET 1 OF 1

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>	

**BORING DIAMETER****DIAMETER: 8"**

*Note-Diagram not shown to scale

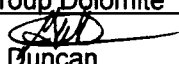


INSTALLATION METHOD: Boring drilled to completion; set screen & riser pipe; placed filter; surged filter; topped off filter; placed bentonite seal; installed protective cover w/concrete pad at surface.

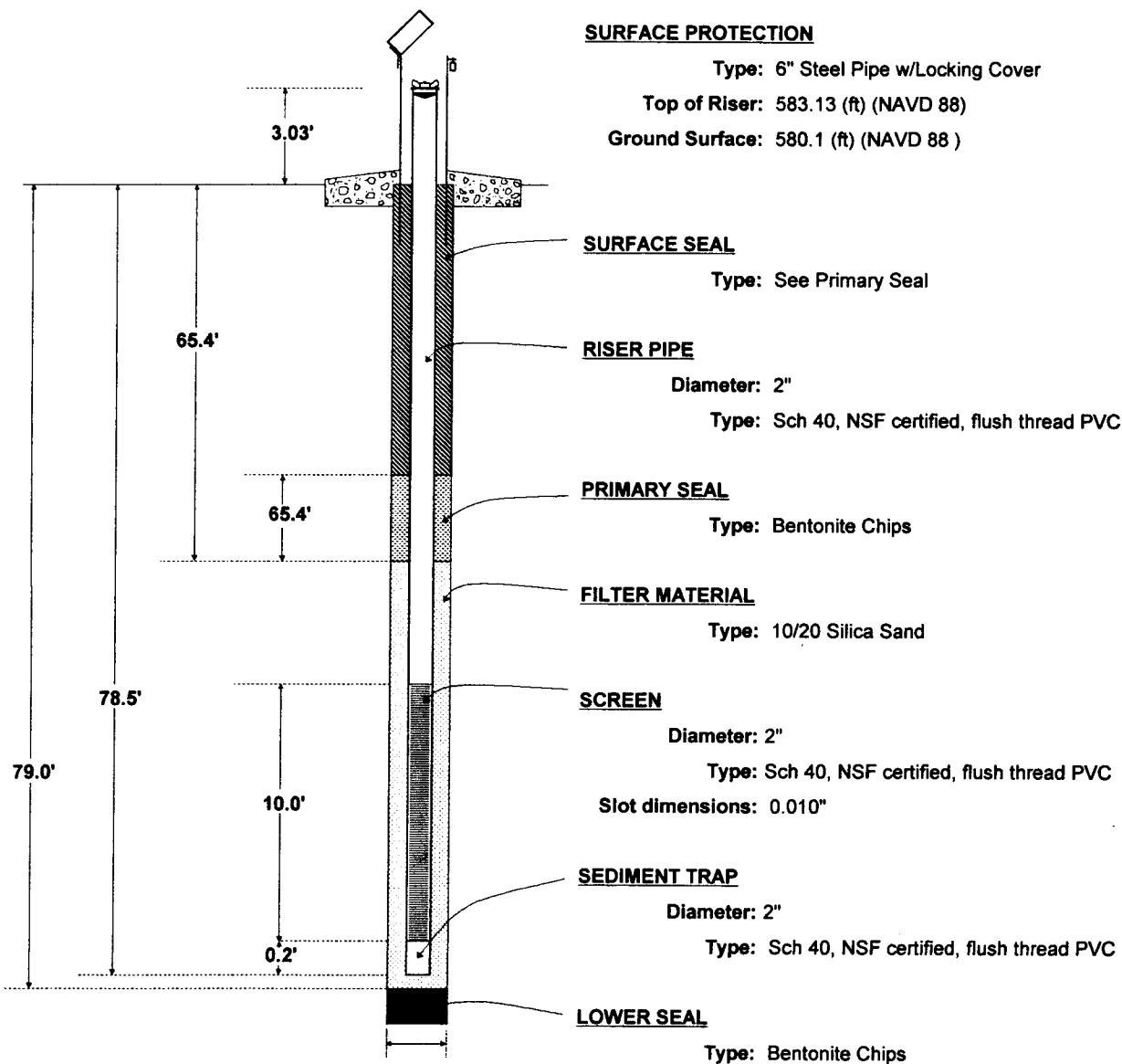
NOTES: Bottom cap attached w/stainless steel screws. Developed by pumping 67 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-385D

SHEET 1 OF 1

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  Duncan	CHECKED BY Meyer 	APPROVED BY Meyer 	

**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.

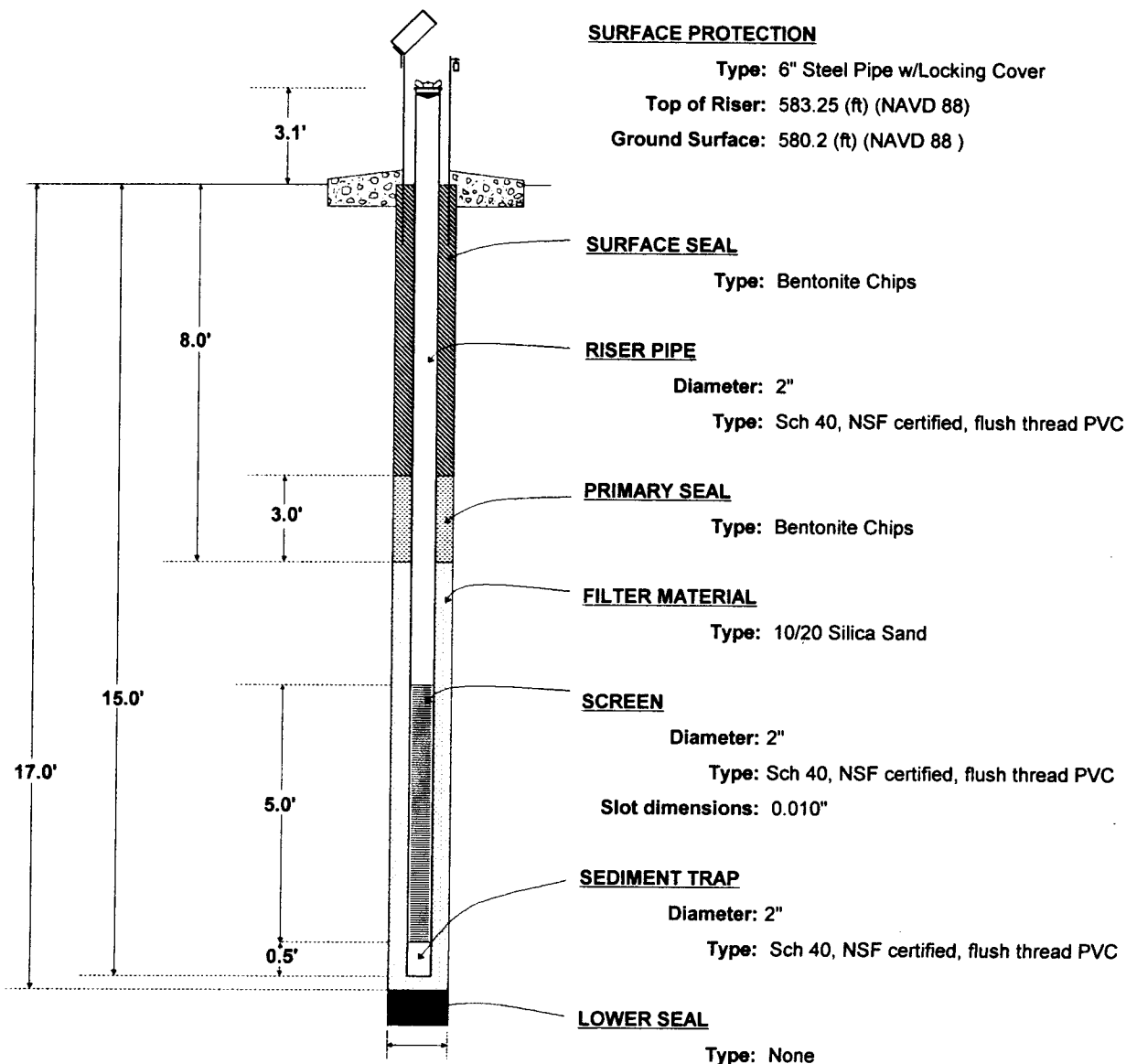
NOTES: Developed by pumping 120 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-385S

SHEET 1 OF 1

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>JD</i>		CHECKED BY Meyer <i>EM</i>	APPROVED BY Meyer <i>EM</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.

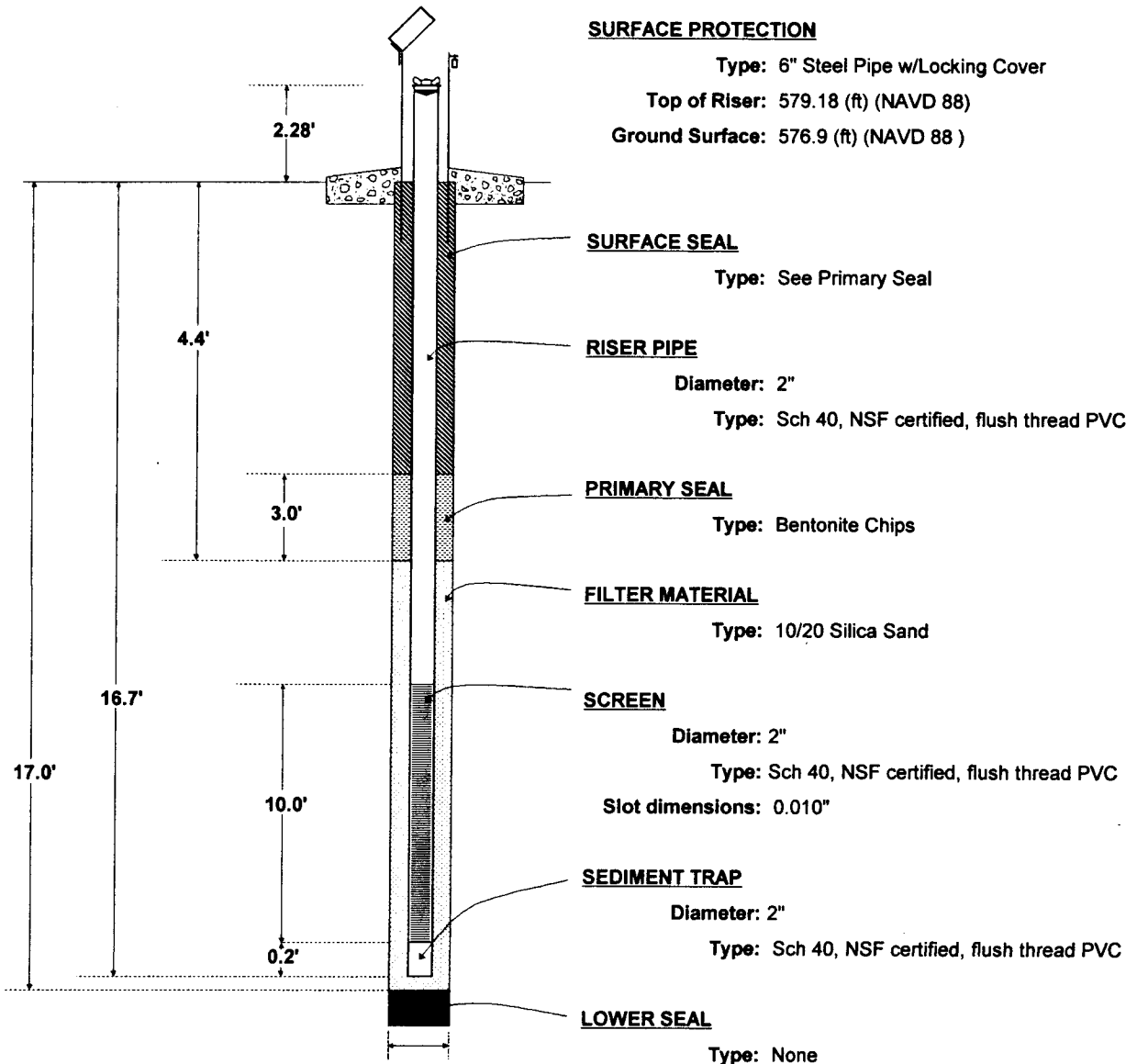
NOTES: Developed by pumping 135 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-389S

SHEET 1 OF 1

CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 7821.4' E 3889.3'	TOP OF RISER ELEVATION (DATUM) 579.18 ft (NAVD 88)	DATE 05/15/07
STRATUM MONITORED Sandy Silt, Lean Clay, Sandy Lean Clay			
INSPECTOR Duncan	CHECKED BY Meyer	APPROVED BY 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.

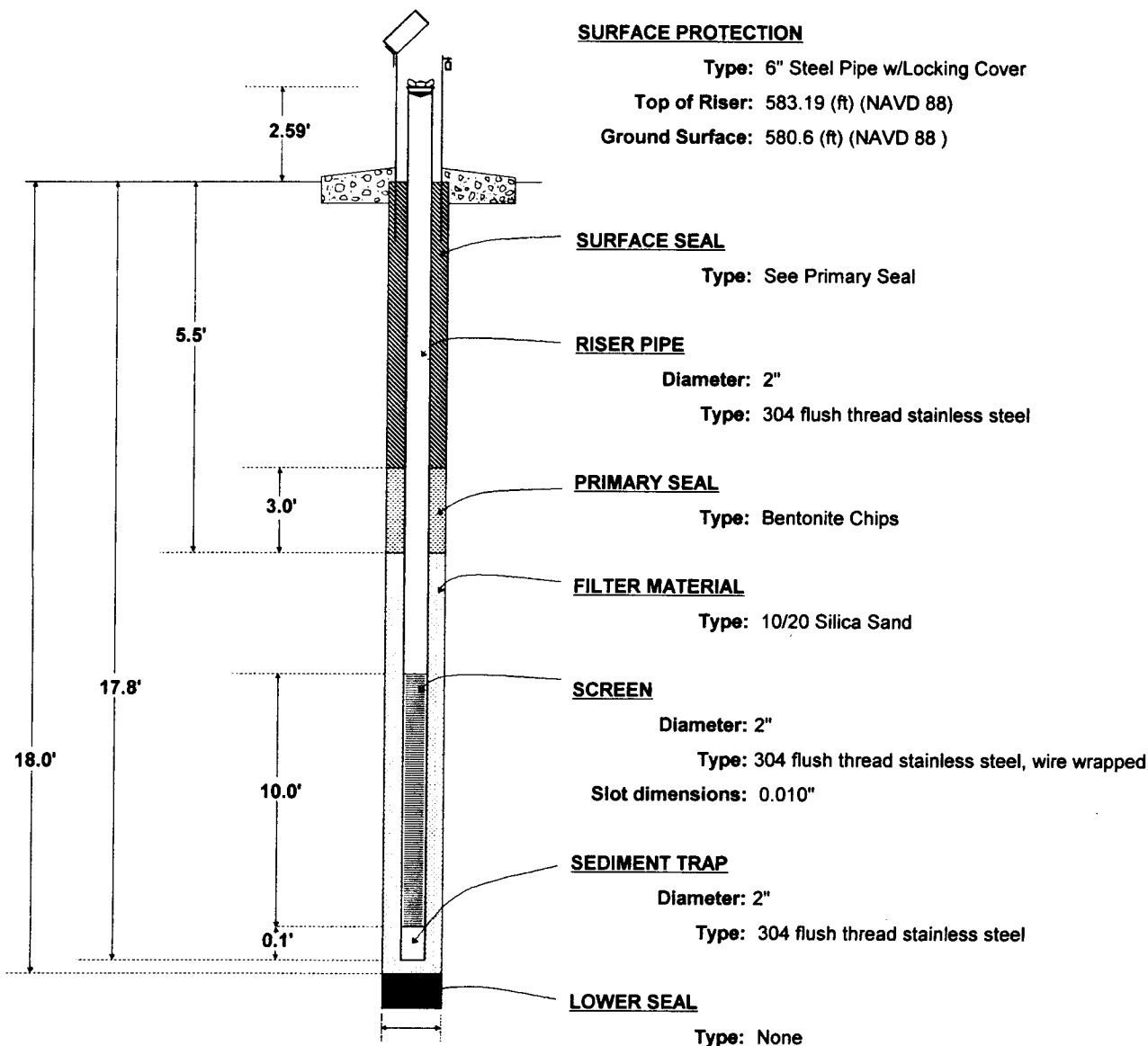
NOTES: Developed by pumping 104 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-392S

SHEET 1 OF 1

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>	

**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.

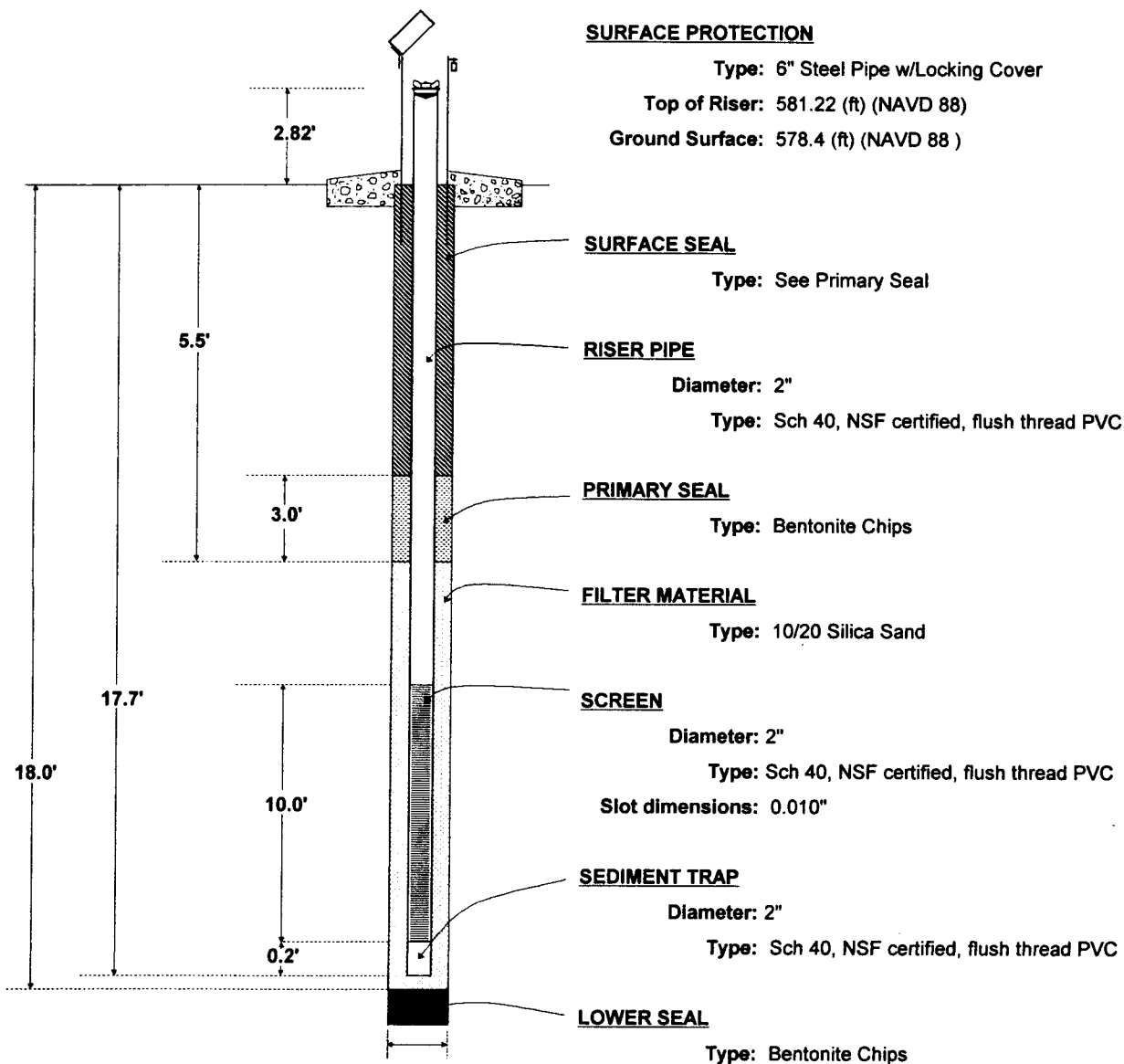
NOTES: Developed by pumping 57 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-396S

SHEET 1 OF 1

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.

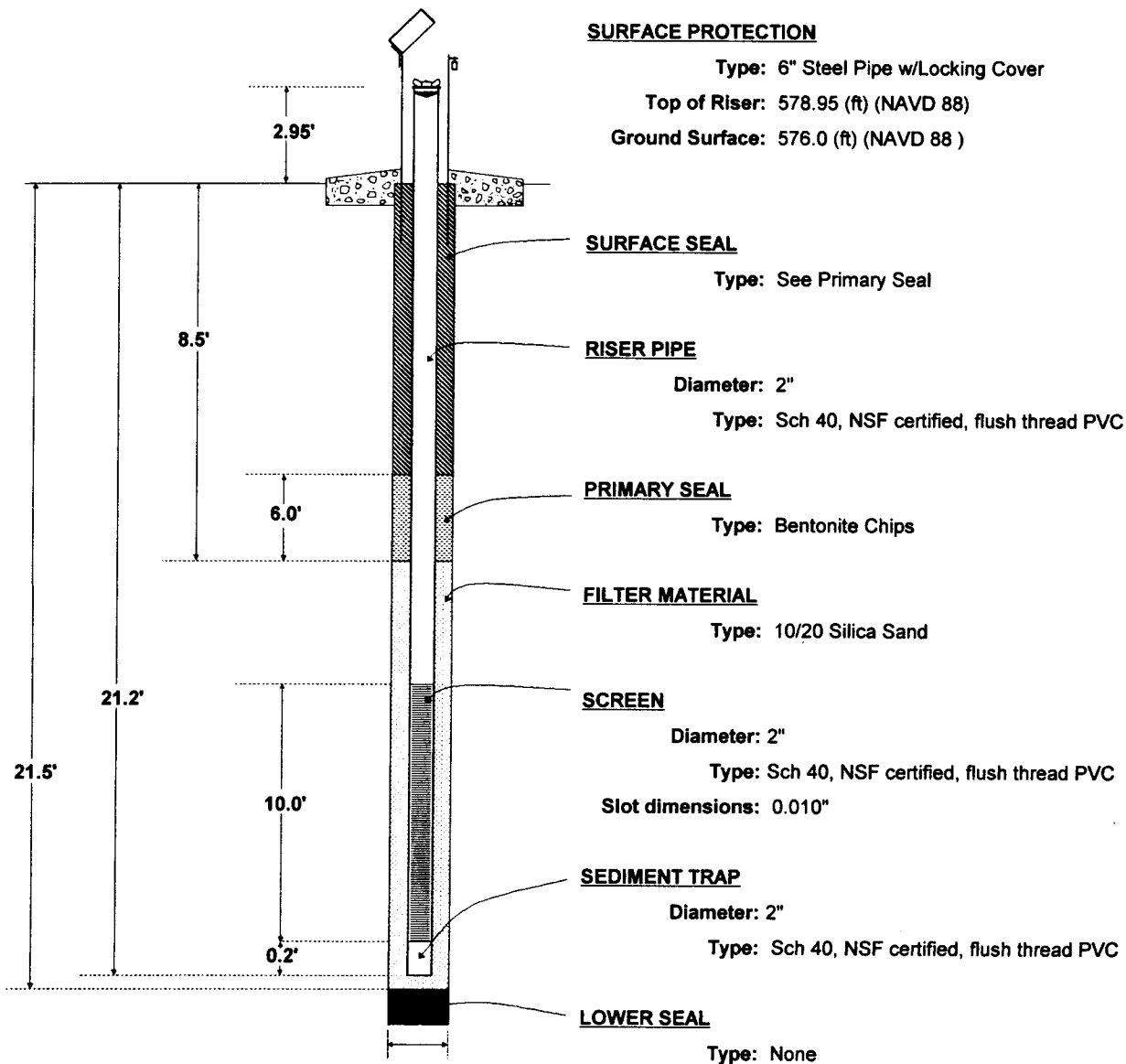
NOTES: Developed by pumping 55 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-397S

SHEET 1 OF 1

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 <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; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.

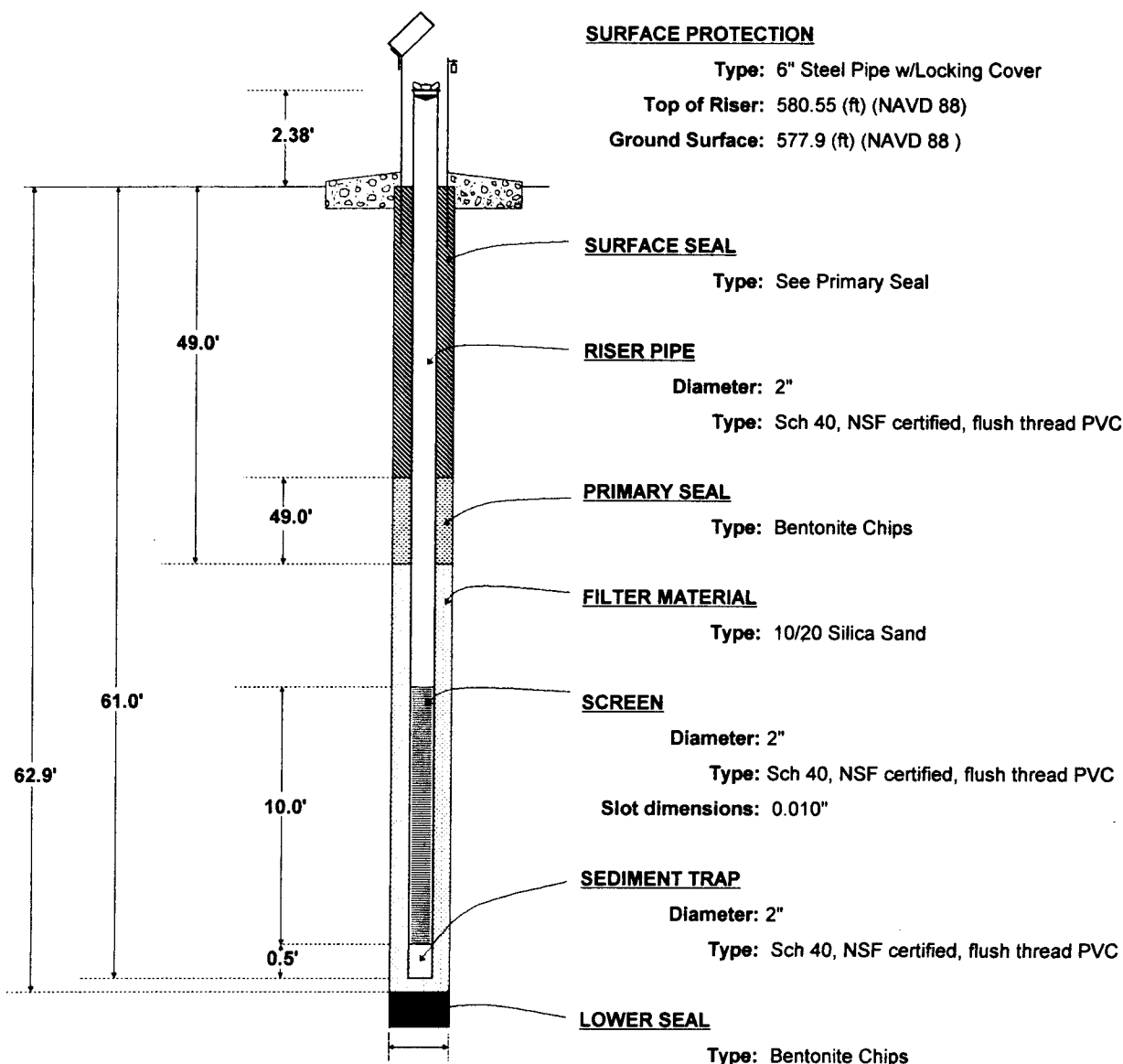
NOTES: Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-398D

SHEET 1 OF 1

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 GEO. OHLMACHER/DUNCAN	CHECKED BY Meyer	APPROVED BY Meyer	

**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.

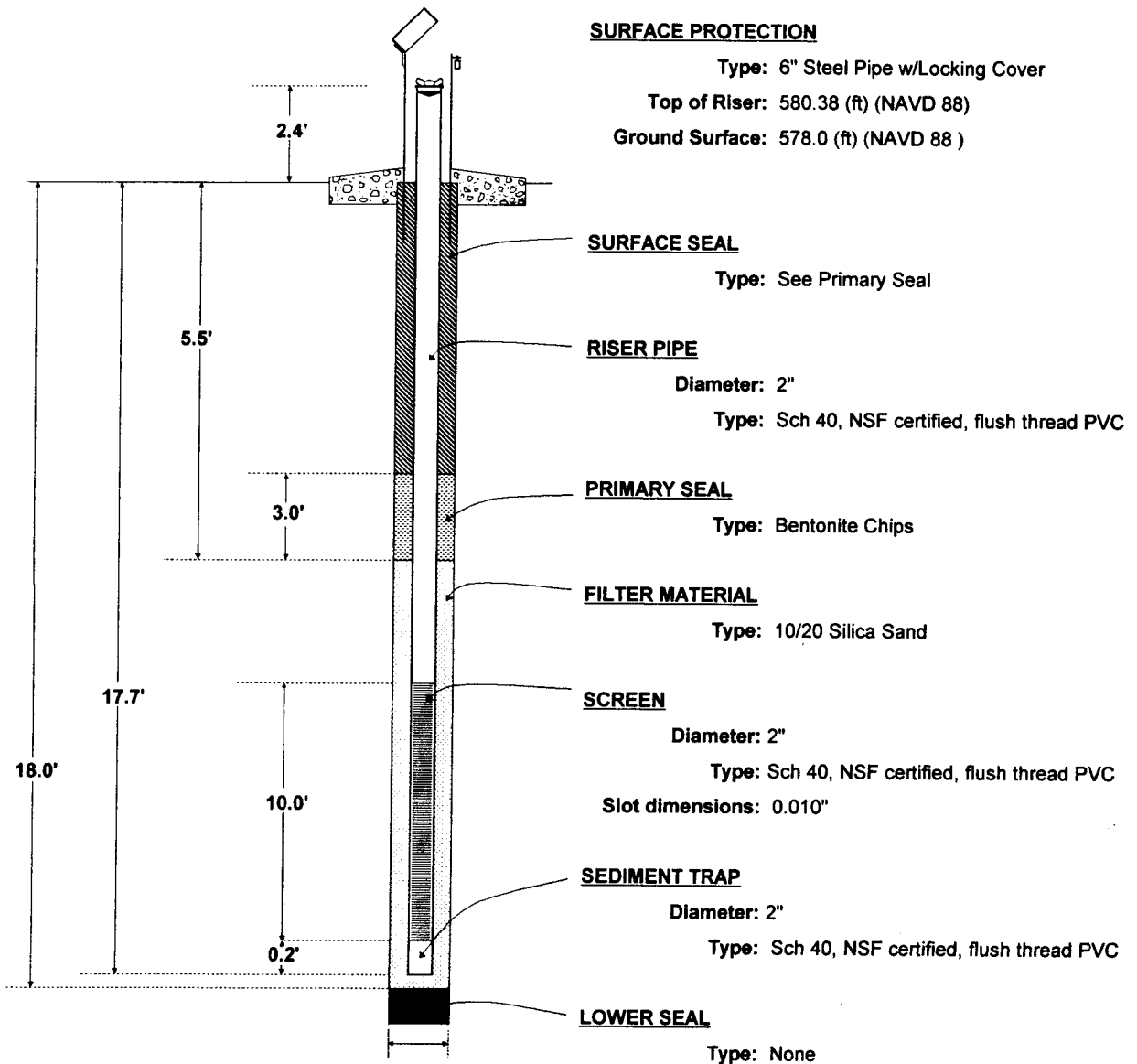
NOTES: Developed by pumping 100 gallons of water.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-398S

SHEET 1 OF 1

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  Duncan		CHECKED BY Meyer 	APPROVED BY Meyer 	



*Note-Diagram not shown to scale

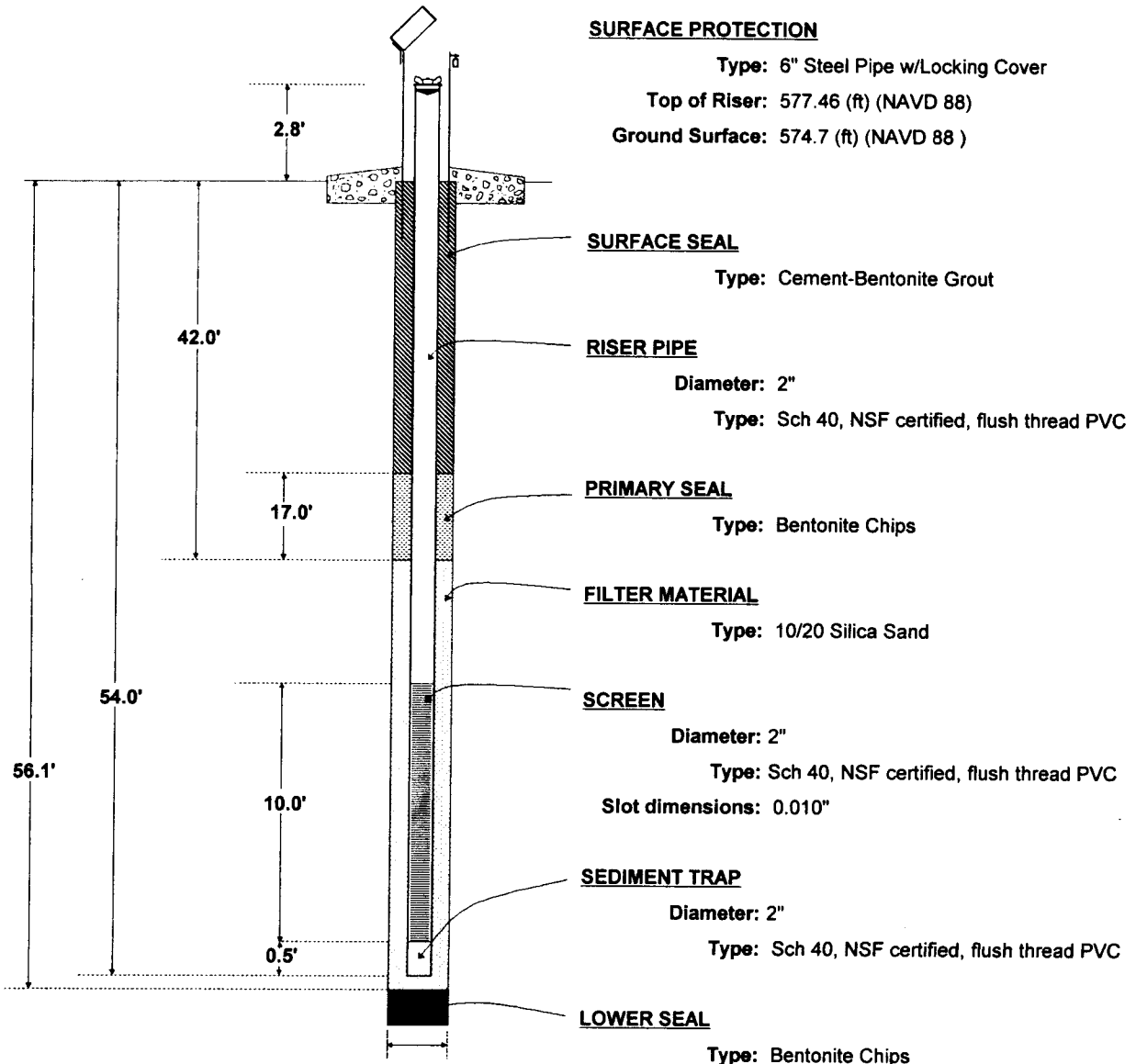
INSTALLATION METHOD: Boring drilled to completion; set screen & riser pipe; placed filter & bentonite seal; installed protective cover w/concrete pad at surface.**NOTES:** Developed by pumping 89 gallons of water over a multiple day period - pumped dry multiple times.

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. P-399D

SHEET 1 OF 1

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>610</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.

**BLACK & VEATCH****PIEZOMETER LOG**PIEZOMETER NO. CB-C5
SHEET 1 OF 1

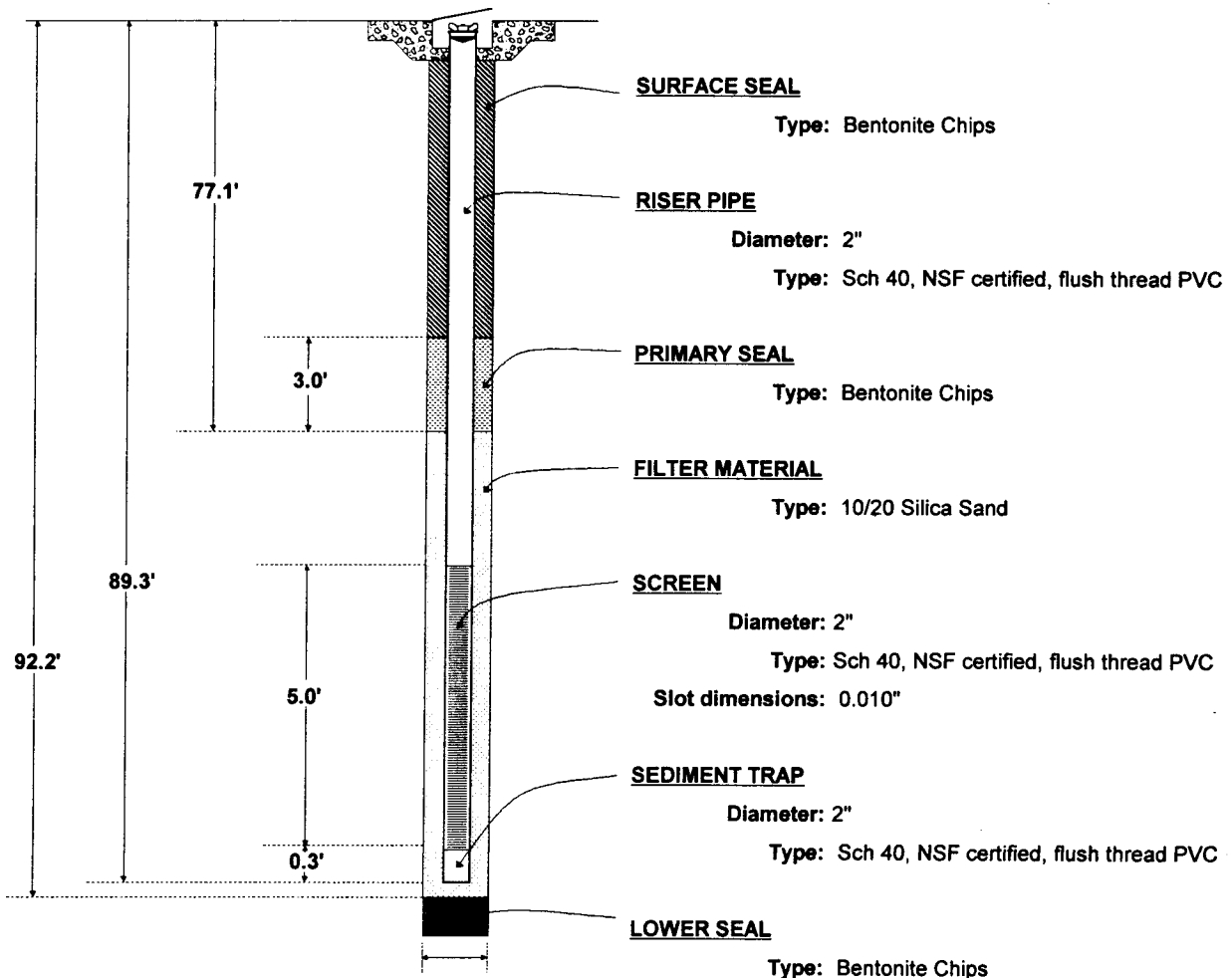
CLIENT Detroit Edison		PROJECT Fermi 3 COL Application		PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6123.0' E 4663.4'		TOP OF RISER ELEVATION (DATUM) 580.77 ft (NAVD 88)	DATE 08/24/07
STRATUM MONITORED Bass Islands Group Dolomite & Shale				
INSPECTOR Grainger <i>EM for</i>		CHECKED 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:

**BLACK & VEATCH****PIEZOMETER LOG**

PIEZOMETER NO. EB/TSC-C2

SHEET 1 OF 1

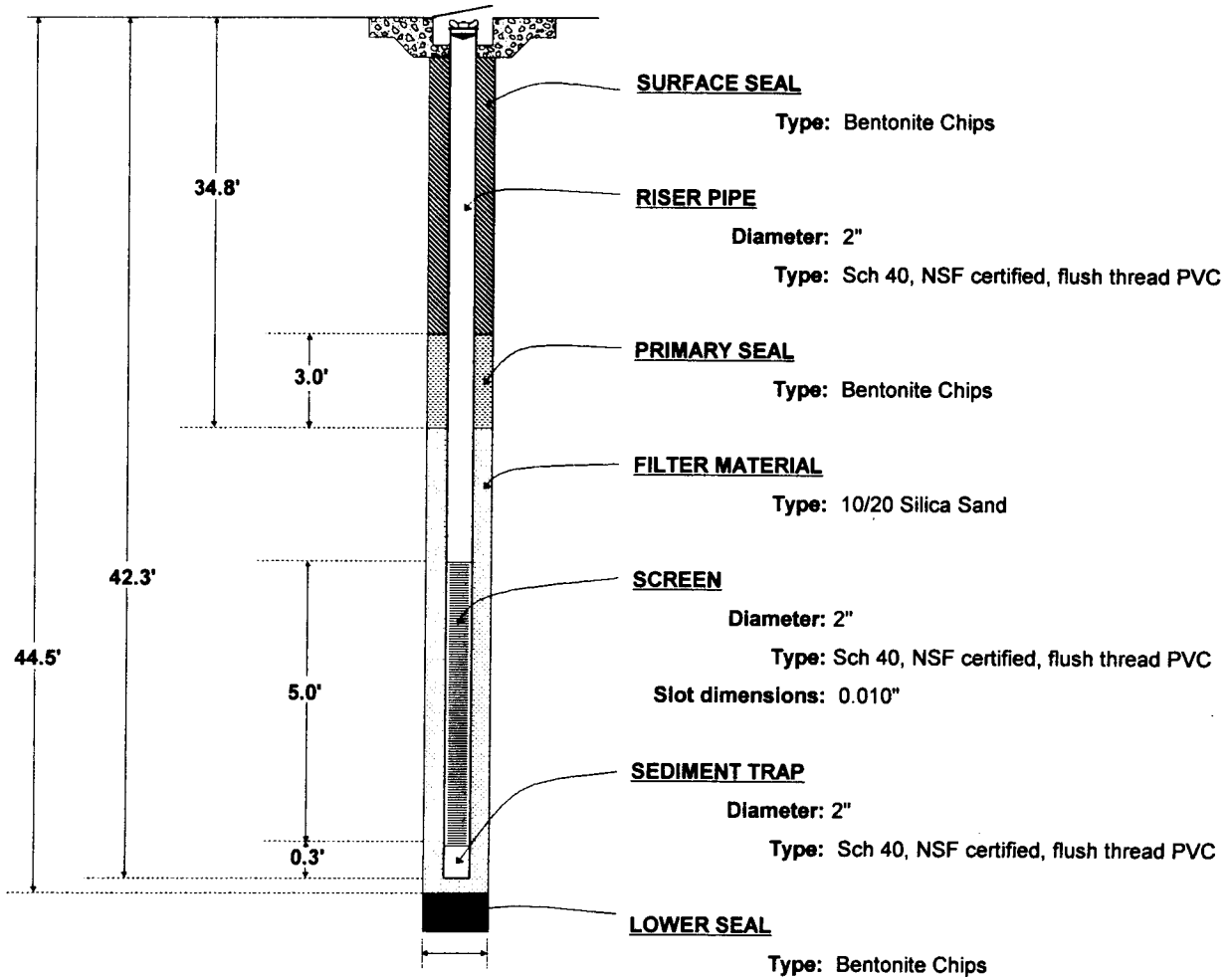
CLIENT Detroit Edison		PROJECT Fermi 3 COL Application	PROJECT NO. 147483
PROJECT LOCATION Monroe, MI	COORDINATES N 6579.3' E 4697.2'	TOP OF RISER ELEVATION (DATUM) 581.12 ft (NAVD 88)	DATE 09/11/07
STRATUM MONITORED Bass Islands Group Dolomite			
INSPECTOR Grainger <i>SM for</i>	CHECKED BY Meyer <i>SM</i>	APPROVED BY Meyer <i>SM</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:

**BLACK & VEATCH****TEST PIT LOG**

TEST-PIT NO. TP-1

SHEET 1 OF 1

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

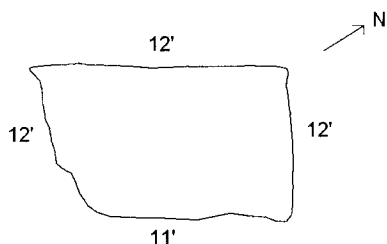
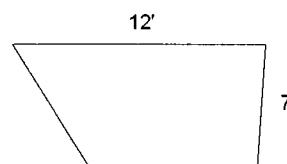
Grainger

CHECKED BY

Meyer

APPROVED BY

Meyer

PLAN VIEW SKETCH, DIMENSIONS, AND NORTH ARROW**PROFILE VIEW SKETCH AND DIMENSIONS**

SAMPLE NUMBER & TYPE	DEPTH (FEET)	CLASSIFICATION AND DESCRIPTION OF MATERIAL (HORIZONTAL SCALE IN FEET)				
		0	2.4	4.8	7.2	9.6 12
	0	Asphalt				
	2	1. Well graded <u>GRAVEL</u> with Silt and Sand				
	4	2. Bouldery <u>COBBLES</u> with Sand				
	6					
	8	1. Well Graded <u>GRAVEL</u> with Silt and Sand (GW-GM); about 70% fine to coarse, angular, hard gravel, max size 3"; about 20% fine to coarse, angular, hard sand; about 10% fines-silt, light gray, moist, strong reaction w/ HCL, homogeneous (Fill)				
	10	2. Bouldery <u>COBBLES</u> with Sand; about 35% angular, tubular to cubical, cobbles max size 12"; about 25% angular, tubular to cubical, hard boulders, max size 26"; about 20% fine to coarse, angular, hard gravel, max size 3"; about 15% fine to coarse, angular, hard sand; about 5% fines-silt (Fill)				

REMARKS

Backfilled with excavated material.