MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** C. Gandy	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2253	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.9 ft **(NAVD88)**	**NORTHING** 13,413,588 **US ft (NAD83)**	**EASTING** 2,600,485 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 150.0 ft	**DRILL MACHINE** CME-55 LC	**DRILLER: D. White/O. Smith**	**HAMMER (ID)** 140 lb. Auto (MEC 02)
DATE STARTED 11/7/07	**COMPLETED** 11/8/07	**CASING DEPTH: N/A**	**BITS USED: 2 7/8" Wing Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.8					Continued from previous page				
22.4	58.5	14	13	28	41	SS-15			Clayey SAND (SC), light gray (10YR7/2), very firm, moist, some fines, weak HCl reaction *(continued)* 22.4 — 58.5 POORLY GRADED SAND (SP), light gray (10YR7/2), dense, moist, fine sand, trace fines, strong HCl reaction, 0.2'-thick lense of carbonate gravel
17.4	63.5	6	7	9	16	SS-16			17.4 — 63.5 FAT CLAY (CH), light gray (10YR7/2), mottled light brown (7.5YR6/4), very stiff, moist, little sands, strong HCl reaction, iron and carbonate nodules
12.4	68.5	4	6	8	14	SS-17			68.5ft: light brown (75.YR6/3), mottled, stiff
7.4	73.5	7	9	12	21	SS-18			73.5ft: pale brown (10YR6/3), very stiff, thinly laminated
2.4	78.5	7	9	11	20	SS-19			78.5ft: light gray (10YR7/2), few sands, gravel sized carbonate nodules
-2.6	83.5	14	21	28	49	SS-20			-2.6 — 83.5 POORLY GRADED SAND (SP), light gray (10YR7/2), dense, moist, trace fines, no HCl reaction
-7.6	88.5	50/0.2			50/0.2	SS-21			88.5ft: no recovery, very dense
-12.6	93.5	8	18	22	40	SS-22			-12.6 — 93.5 FAT CLAY with sand (CH), light gray (10YR7/2), mottled strong brown (7.5YR5/6), hard, moist, little sand, carbonate nodules
-17.6	98.5	45	50/0.5		95/1.0	SS-23			-17.6 — 98.5 Clayey SAND with gravel (SC), very pale brown (10YR8/3), very dense, wet, little fines and gravel, carbonate nodules, strong HCl reaction
-27.6	108.5	24	36	50/0.4	86/9.9	SS-24			-27.6 — 108.5 POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, moist, medium to coarse grained, few fines, strong HCl reaction

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** C. Gandy	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2253	**DRILL METHOD:** Mud Rotary	**SAMPLE METHODS:** SPT	**0 HR.** ND
GROUND SURFACE ELEV. 80.9 ft **(NAVD88)**	**NORTHING** 13,413,588 **US ft (NAD83)**	**EASTING** 2,600,485 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 150.0 ft	**DRILL MACHINE** CME-55 LC	**DRILLER:** D. White/O. Smith	**HAMMER (ID)** 140 lb. Auto (MEC 02)
DATE STARTED 11/7/07	**COMPLETED** 11/8/07	**CASING DEPTH:** N/A	**BITS USED:** 2 7/8" Wing Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-31.3					Continued from previous page				
									POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, moist, medium to coarse grained, few fines, strong HCl reaction *(continued)*
-37.6	118.5								-37.6 118.5
		5	9	18	27	SS-25			FAT CLAY (CH), very pale brown (10YR8/2), very stiff, moist, few sands, weak HCl reaction, carbonate nodules, trace iron and organic stains
-47.6	128.5								-47.6 128.5
		22	26	44	70	SS-26			Clayey SAND (SC), very pale brown (10YR8/3), very dense, wet, some fines, strong HCl reaction, carbonate nodules
-57.6	138.5								-57.6 138.5
		19	23	45	68	SS-27			POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR7/3), very dense, wet, few fines, trace carbonate nodules, trace clay seams, strong HCl reaction
-67.6	148.5								-67.6 148.5
		7	10	11	21	SS-28			Clayey SAND (SC), very pale brown (10YR7/3), very firm, moist, some fines, strong HCl reaction, increasing clay content with depth
									-69.1 150.0
									Boring Terminated at Elevation -69.1 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPT Date 6-12-08

Checked By KAW Date 7-10-08

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2254	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.5 ft **(NAVD88)**	**NORTHING** 13,413,216 **US ft (NAD83)**	**EASTING** 2,600,263 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 151.4 ft	**DRILL MACHINE** CME-550	**DRILLER: L. Carter/ J. Landeros**	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/28/07	**COMPLETED** 11/29/07	**CASING DEPTH: N/A**	**BITS USED: 2 15/16" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.5					Ground Surface				
80.5	0.0	2	3	7	10	SS-1			80.5 — 0.0 Sandy LEAN CLAY (CL), black (2.5Y1), stiff, moist, few sand, no HCl reaction, trace roots
77.0	3.5	17	15	15	30	SS-2			77.0 — 3.5 LEAN CLAY with sand (CL), olive gray (5Y5/2), very stiff, moist, some sand, weak HCl reaction, trace carbonate nodules
74.5	6.0	7	9	13	22	SS-3			6.0ft: light olive gray (5Y6/2), to brownish yellow (10YR6/8), few sand, strong HCl reaction, trace black staining
72.0	8.5	8	11	12	23	SS-4			
69.5	11.0	8	8	10	18	SS-5			69.5 — 11.0 LEAN CLAY (CL), brownish yellow (10YR6/6), veined light greenish gray (10Y7/1), very stiff, moist, few sand, strong HCl reaction, trace carbonate nodules
67.0	13.5	7	9	12	21	SS-6			
60.6	19.9	3	5	6	11	SS-7			60.6 — 19.9 FAT CLAY with sand (CH), brownish yellow (10YR6/6), stiff, moist, trace sand, weak HCl reaction, trace carbonate nodules
55.6	24.9	4	4	6	10	SS-8			55.6 — 24.9 LEAN CLAY with sand (CL), brownish yellow (10YR6/6), to light greenish gray (10YR7/1), stiff, moist, trace sand, weak HCl reaction
50.6	29.9	4	4	5	9	SS-9			29.9ft: light brownish gray (2.5Y6/2), some sand, no HCl reaction
47.2	33.3								47.2 — 33.3
45.6	34.9	11	13	17	30	SS-10			Clayey SAND (SC), light gray (2.5Y7/2), very firm, moist, fine grained, some fines, no HCl reaction, trace black and orange staining
40.6	39.9	5	7	9	16	SS-11			40.6 — 39.9 LEAN CLAY with sand (CL), light greenish gray (10Y7/1), with strong brown (7.5YR5/8), very stiff, moist, little sand, little to no HCl reaction in clay
35.6	44.9	6	7	8	15	SS-12			44.9ft: light olive gray (5Y6/2), stiff, weak HCl reaction, trace carbonate nodules
32.5	48.0								32.5 — 48.0
30.6	49.9	5	6	9	15	SS-13			Clayey SAND (SC), light brownish gray (2.5Y6/2), to light olive gray (5Y6/2), firm to very firm, moist, fine grained, some fines, no HCl reaction
25.6	54.9	6	10	12	22	SS-14			

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2254	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.5 ft **(NAVD88)**	**NORTHING** 13,413,216 **US ft (NAD83)**	**EASTING** 2,600,263 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 151.4 ft	**DRILL MACHINE** CME-550	**DRILLER: L. Carter/ J. Landeros**	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/28/07	**COMPLETED** 11/29/07	**CASING DEPTH: N/A**	**BITS USED: 2 15/16" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.4					Continued from previous page				
									Clayey SAND (SC), light brownish gray (2.5Y6/2), to light olive gray (5Y6/2), firm to very firm, moist, fine grained, some fines, no HCl reaction *(continued)*
20.6	59.9	11	13	16	29	SS-15			59.9ft: weak HCl reaction
									18.5 — 62.0
15.6	64.9								FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, few sand, no HCl reaction, trace carbonate nodules
		8	9	11	20	SS-16			
10.6	69.9								
		5	8	10	18	SS-17			69.9ft: trace sand, weak HCl reaction
5.6	74.9								
		6	9	14	23	SS-18			74.9ft: light brownish gray (10YR6/2), little sand, no HCl reaction
0.6	79.9								0.6 — 79.9
		6	12	14	26	SS-19			Clayey SAND (SC), light brownish gray (2.5Y6/2), very firm, moist, fine grained, some fines, no HCl reaction
-4.4	84.9								-2.5 — 83.0
		12	20	27	47	SS-20			POORLY GRADED SAND with clay (SP-SC), light brownish gray (2.5Y6/2), dense, wet, fine grained, few fines, no HCl reaction
-9.4	89.9								
		13	29	33	62	SS-21			89.9ft: light gray (2.5Y7/2), very dense, weak HCl reaction, trace carbonate nodules
-14.4	94.9								
		18	31	34	65	SS-22			
-19.4	99.9								-19.4 — 99.9
		50/0.3			50/0.3	SS-23			99.9ft: no recovery
-21.6	102.1								
		14	44	29	73	SS-24			Clayey SAND (SC), light gray (2.5Y7/2), very dense, moist, fine grained, some fines, strong HCl reaction, trace carbonate nodules
									-24.5 — 105.0
-29.4	109.9								WELL-GRADED SAND with clay (SW-SC), light gray (2.5Y7/2), very dense, wet, fine, to coarse grained, strong HCl reaction, trace carbonate nodules
		29	39	33	72	SS-25			

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.:** 6468-07-1777	**GROUND WATER (ft)**	
BORING NO. B-2254	**DRILL METHOD:** Mud Rotary	**SAMPLE METHODS:** SPT	**0 HR.** ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	**NORTHING** 13,413,216 US ft (NAD83)	**EASTING** 2,600,263 US ft (NAD83)	**24 HR.** ND
TOTAL DEPTH 151.4 ft	**DRILL MACHINE** CME-550	**DRILLER:** L. Carter/ J. Landeros	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/28/07	**COMPLETED** 11/29/07	**CASING DEPTH:** N/A	**BITS USED:** 2 15/16" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-31.7					Continued from previous page				
									-32.5 113.0 FAT CLAY (CH), light greenish gray (10Y7/1), very stiff, moist, no HCl reaction, trace carbonate nodules
-39.4	119.9	6	13	13	26	SS-26			
-49.4	129.9	25	32	31	63	SS-27			-49.4 129.9 POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), very dense, wet, fine grained, few fines, strong HCl reaction
-59.4	139.9	19	37	50/0.3	87/0.8	SS-28			139.9ft: brownish yellow (10YR6/8)
									-65.0 145.5 FAT CLAY (CH), light gray (5Y6/2), very stiff, moist, trace sand, strong HCl reaction, trace carbonate nodules
-69.4	149.9	10	13	16	29	SS-29			
									-70.9 151.4 Boring Terminated at Elevation -70.9 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPH Date 6-12-08

Checked By KAW Date 7-10-08

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2255	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.7 ft **(NAVD88)**	**NORTHING** 13,413,238 **US ft (NAD83)**	**EASTING** 2,600,341 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 151.3 ft	**DRILL MACHINE** CME-550	**DRILLER: L. Carter/J. Landeros**	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/29/07	**COMPLETED** 11/30/07	**CASING DEPTH: N/A**	**BITS USED: 2 15/16" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.7					Ground Surface				
80.7	0.0	3	4	5	9	SS-1			LEAN CLAY with sand (CL), dark olive brown (2.5Y3/3), stiff, moist, few sand, no HCl reaction, trace roots
77.2	3.5								
		14	11	12	23	SS-2			FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, trace sand, strong HCl reaction, trace carbonate nodules, trace black staining
74.7	6.0								
		2	4	5	9	SS-3			6.0ft: light brownish gray (2.5Y6/2), stiff, weak HCl reaction
72.2	8.5								
		5	7	9	16	SS-4			8.5ft: light olive gray (5Y6/2), to yellowish brown (10YR5/8), very stiff, few sand, strong HCl reaction
69.7	11.0								
		6	10	9	19	SS-5			LEAN CLAY with sand (CL), greenish gray (10Y6/1), to brownish yellow (10YR6/8), very stiff, moist, little sand, trace massive carbonate nodules
67.2	13.5								
		4	6	6	12	SS-6			13.5ft: brownish yellow (10YR6/8), veined light greenish gray (10Y7/1), stiff, few sand
60.9	19.8								
		3	6	7	13	SS-7			FAT CLAY (CH), yellowish brown (10YR5/8), stiff, moist, trace sand, trace carbonate nodules, strong HCl reaction
55.9	24.8								
		3	5	8	13	SS-8			24.8ft: light yellowish brown (2.5Y6/3), to light olive gray (5Y6/2)
50.9	29.8								
		3	4	7	11	SS-9			Sandy LEAN CLAY (CL), light yellowish brown (10YR5/8), stiff, moist, some sand, strong HCl reaction, trace carbonate nodules
45.9	34.8								
		6	7	10	17	SS-10			34.8ft: light brownish gray (2.5Y6/2), very stiff
40.9	39.8								
		6	13	22	35	SS-11			39.8ft: greenish gray (10Y6/1), to strong brown (7.5YR5/8), hard, few sand, weak HCl reaction
35.9	44.8								
		7	11	15	26	SS-12			POORLY GRADED SAND with clay (SP-SC), light brownish gray (10YR6/2), very firm, wet, fine grained, few fines, no HCl reaction
30.9	49.8								
		7	9	14	23	SS-13			Clayey SAND (SC), light brownish gray (10Y6/2), very firm, wet, fine grained, little fines, no HCl reaction
25.9	54.8								
		6	6	15	21	SS-14			

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2255	**DRILL METHOD:** Mud Rotary	**SAMPLE METHODS:** SPT	**0 HR.** ND
GROUND SURFACE ELEV. 80.7 ft **(NAVD88)**	**NORTHING** 13,413,238 **US ft (NAD83)**	**EASTING** 2,600,341 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 151.3 ft	**DRILL MACHINE** CME-550	**DRILLER:** L. Carter/J. Landeros	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/29/07	**COMPLETED** 11/30/07	**CASING DEPTH:** N/A	**BITS USED:** 2 15/16" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.6					Continued from previous page				
20.9	59.8								Sandy LEAN CLAY (CL), greenish gray (10Y6/1, 10Y5/1), and strong brown (7.5YR5/8), very stiff, moist, some sand, weak HCl reaction *(continued)*
		13	12	11	23.	SS-15A/B			59.8: 0.5'-thick layer of interbedded poorly graded sand
15.9	64.8								15.9 — 64.8
		5	7	10	17.	SS-16			FAT CLAY (CH), greenish gray (10Y5/1), very stiff, moist, trace sand, strong HCl reaction, trace carbonate nodules
10.9	69.8								69.8ft: stiff, no HCl reaction
		5	5	9	14.	SS-17			
5.9	74.8								74.8ft: gray (2.5Y6/1), very stiff, little sand, trace black staining
		5	9	11	20.	SS-18			
0.9	79.8								79.8ft: light gray (2.5Y7/1)
		5	9	13	22.	SS-19			
-1.3	82.0								POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), dense, wet, fine grained, few fines, strong HCl reaction, trace carbonate nodules
-4.1	84.8	7	18	26	44	SS-20			
-9.1	89.8	10	17	27	44	SS-21			89.8ft: light gray (2.5Y7/2), weak to strong HCl reaction
-14.1	94.8								-14.1 — 94.8
		24	31	50/0.3	81/0.8	SS-22			FAT CLAY with sand (CH), light gray (5Y7/1), hard, moist, little sand, strong HCl reaction, interbedded carbonate
-19.1	99.8								-19.1 — 99.8
		38	42	50	92.	SS-23A/B			POORLY GRADED SAND with clay (SP-SC), light gray (2.5Y7/2), very dense, wet, fine grained, few fines below 100.8ft, strong HCl reaction
-29.1	109.8								99.8-100.8ft: some fines
		22	38	40	78.	SS-24			109.8ft: light yellowish brown (2.5Y6/3)

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2255	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.7 ft **(NAVD88)**	**NORTHING** 13,413,238 **US ft (NAD83)**	**EASTING** 2,600,341 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 151.3 ft	**DRILL MACHINE** CME-550	**DRILLER: L. Carter/J. Landeros**	**HAMMER (ID)** 140 lb. Auto (MEC 03)
DATE STARTED 11/29/07	**COMPLETED** 11/30/07	**CASING DEPTH: N/A**	**BITS USED: 2 15/16" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-31.5					Continued from previous page				
									POORLY GRADED SAND with clay (SP-SC), light gray (2.5Y7/2), very dense, wet, fine grained, few fines below 100.8ft, strong HCl reaction 99.8-100.8ft: some fines *(continued)*
-39.1	119.8	8	9	13	22	SS-25			-39.1 FAT CLAY (CH), light greenish gray (10Y7/1), very stiff, moist, trace sand, weak HCl reaction, trace carbonate nodules and black staining 119.8
-41.3	122.0								Clayey SAND (SC), light gray (2.5Y7/2), dense, wet, fine grained, little fines, strong HCl reaction
-49.1	129.8	12	18	26	44	SS-26			
-59.1	139.8	50/0.3			50/0.3	SS-27			-59.1 POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, fine grained, trace fines, strong HCl reaction 139.8
-60.3	141.0								FAT CLAY with sand (CH), light olive gray (5Y6/2), very stiff, moist, little sand, weak HCl reaction, trace carbonate nodules
-69.1	149.8	7	8	12	20	SS-28			
-70.6	151.3								Boring Terminated at Elevation -70.6 ft

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPK Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 4

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** A. Osorio	
SITE DESCRIPTION Exelon COL Project	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2256	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.3 ft **(NAVD88)**	**NORTHING** 13,413,314 **US ft (NAD83)**	**EASTING** 2,600,403 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 200.0 ft	**DRILL MACHINE** CME-75	**DRILLER: D. Nalls/B. Turner**	**HAMMER (ID)** 140 lb. Auto (MEC 11)
DATE STARTED 12/1/07	**COMPLETED** 12/2/07	**CASING DEPTH: 2.0 ft**	**BITS USED: 3" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.3					Ground Surface				
80.3	0.0	2	3	4	7	SS-1			Sandy LEAN CLAY (CL), black (2.5/N), firm, moist, trace sand, organics, no HCl reaction
76.8	3.5	2	3	3	6	SS-2			3.5ft: dark gray (4/N), some sand, carbonate nodules, strong HCl reaction
74.3	6.0	3	4	6	10	SS-3			6.0ft: stiff, light brownish gray (10YR6/2), little sand
71.8	8.5	4	5	7	12	SS-4			FAT CLAY (CH) yellowish brown (10YR5/4 and 10YR5/6), mottled greenish gray (10Y6/1), stiff, moist, trace sand, black stains, carbonate nodules
69.3	11.0	5	9	13	22	SS-5			11.0ft: very stiff
66.8	13.5	9	9	10	19	SS-6			
61.8	18.5	5	7	10	17	SS-7			
56.8	23.5	4	6	8	14	SS-8			23.5ft: stiff
51.8	28.5	6	10	13	23	SS-9			28.5ft: greenish gray (10Y6/1), very stiff, little sand, no HCl reaction, yellowish brown stains
46.8	33.5	6	9	9	18	SS-10			Sandy LEAN CLAY (CL), light greenish gray (5GY7/1), mottled yellowish brown (10YR5/6), very stiff, moist, some sand, no HCl reaction
45.3	35.0								POORLY GRADED SAND (SP), light greenish gray (5GY7/1), firm, moist, fine grained, trace fines, no HCl reaction, yellow brown stains
41.8	38.5	8	10	10	20	SS-11			
36.8	43.5	5	7	9	16	SS-12			POORLY GRADED SAND with clay (SP-SC), light greenish gray (5GY7/1), firm, moist, fine grained, few fines, with yellowish brown stains, no HCl reaction
31.8	48.5	7	8	12	20	SS-13			
26.8	53.5	5	7	8	15	SS-14			

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** A. Osorio	
SITE DESCRIPTION Exelon COL Project	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2256	**DRILL METHOD:** Mud Rotary	**SAMPLE METHODS:** SPT	**0 HR.** ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	**NORTHING** 13,413,314 US ft (NAD83)	**EASTING** 2,600,403 US ft (NAD83)	**24 HR.** ND
TOTAL DEPTH 200.0 ft	**DRILL MACHINE** CME-75	**DRILLER:** D. Nalls/B. Turner	**HAMMER (ID)** 140 lb. Auto (MEC 11)
DATE STARTED 12/1/07	**COMPLETED** 12/2/07	**CASING DEPTH:** 2.0 ft	**BITS USED:** 3" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.2					Continued from previous page				
21.8	58.5	8	24	26	50	SS-15			POORLY GRADED SAND with clay (SP-SC), light greenish gray (5GY7/1), firm, moist, fine grained, few fines, with yellowish brown stains, no HCl reaction *(continued)* — 58.5
16.8	63.5	4	6	7	13	SS-16			POORLY GRADED SAND (SP), light greenish gray (5GY7/1), dense, moist, fine grained, trace fines, carbonate nodules, no HCl reaction — 63.0
11.8	68.5	3	6	8	14	SS-17			FAT CLAY (CH), greenish gray (10YR6/1), mottled yellowish brown (10YR5/6), stiff, moist, trace sand, carbonate nodules, black stains, weak HCl reaction
6.8	73.5	6	7	10	17	SS-18			73.5ft: very stiff, little sand, no HCl reaction
1.8	78.5	6	9	13	22	SS-19			
-3.2	83.5	16	12	12	24	SS-20			POORLY GRADED SAND (SP), light gray (10YR7/2), very firm, moist, fine grained, trace fines, strong HCl reaction — 83.8
-8.2	88.5	23	23	45	68	SS-21			FAT CLAY with sand (CH), greenish gray (10Y6/1), hard, moist, few sand, some carbonate nodules, strong HCl reaction — 88.5
-13.2	93.5	21	28	41	69	SS-22			POORLY GRADED SAND with clay (SP-SC), greenish gray (10Y6/1), very dense, moist, fine grained, few fines, few carbonate nodules, strong HCl reaction, yellowish brown stains — 93.5
-18.2	98.5	32	29	27	56	SS-23			POORLY GRADED SAND (SP), pale brown (10YR6/3), very dense, moist, medium grained, trace fines, strong HCl reaction, 0.1'-thick interbedded clay layer — 98.5
-28.2	108.5	24	37	36	73	SS-24			108.5ft: light brownish gray (10YR6/2)

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08

MACTEC

BECHTEL PROJECT NO.: 25352	**COUNTY** Victoria	**GEOLOGIST** A. Osorio	
SITE DESCRIPTION Exelon COL Project	**MACTEC PROJECT NO.: 6468-07-1777**	**GROUND WATER (ft)**	
BORING NO. B-2256	**DRILL METHOD: Mud Rotary**	**SAMPLE METHODS: SPT**	**0 HR.** ND
GROUND SURFACE ELEV. 80.3 ft **(NAVD88)**	**NORTHING** 13,413,314 **US ft (NAD83)**	**EASTING** 2,600,403 **US ft (NAD83)**	**24 HR.** ND
TOTAL DEPTH 200.0 ft	**DRILL MACHINE** CME-75	**DRILLER: D. Nalls/B. Turner**	**HAMMER (ID)** 140 lb. Auto (MEC 11)
DATE STARTED 12/1/07	**COMPLETED** 12/2/07	**CASING DEPTH: 2.0 ft**	**BITS USED: 3" Drag Bit**

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
-31.9					Continued from previous page				
-34.7	115.0								FAT CLAY (CH), greenish gray (10YR6/1), hard, moist, trace sand, no HCl reaction, carbonate nodules, black and yellowish stains
-38.2	118.5	5	18	13	31	SS-25			
-44.7	125.0								Silty SAND (SM), greenish gray (10Y6/1), dense, moist, fine grained, little fines, strong HCl reaction
-48.2	128.5	15	18	25	43	SS-26			
-58.2	138.5	45	50/0.4		95/0.9	SS-27			POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, fine to medium grained, strong HCl reaction
-68.2	148.5	13	17	19	36	SS-28			148.5ft: dense
-78.2	158.5	45	50/0.2		95/0.7	SS-29			158.5ft: very dense

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08