MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2266	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,874 US ft (NAD83)	EASTING 2,600,354 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/11/07	COMPLETED 11/12/07	CASING DEPTH: N/A	BITS USED: 2 15/16" Roller Cone

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
80.7	0.0	2	2	4	6	SS-1			FAT CLAY (CH), gray (5Y5/1, 5Y6/1, 10YR6/1), firm, moist, trace carbonate nodules, trace organics
77.4	3.3	2	3	4	7	SS-2			
75.4	5.3	2	3	4	7	SS-3			
72.4	8.3	3	7	8	15	SS-4			8.3ft: very pale brown (10YR7/3) mottled brownish yellow (10YR6/6), stiff
70.7	10.0	5	9	9	18	SS-5			10.0ft: light yellowish brown (10YR6/4) mottled light gray (10YR7/1), very stiff
67.7	13.0	4	5	8	13	SS-6			13.0ft: light yellowish brown (10YR6/4) mottled light gray (10YR7/2), stiff
62.7	18.0	4	6	8	14	SS-7			18.0ft: brownish yellow (10YR6/6) mottled light gray (10YR7/2), strong HCl reaction
57.7	23.0	3	4	7	11	SS-8			23.0ft: very pale brown (10YR7/4) mottled light gray (10YR7/2), strong HCl reaction
52.7	28.0	4	5	6	11	SS-9			28.0ft: light gray (10YR7/2) mottled light yellowish brown (10YR6/4)
47.7	33.0	9	10	10	20	SS-10A/B			47.7 / 33.0; 47.2 / 33.5 Clayey SAND (SC), very pale brown (10YR7/3), firm, moist, little fines, no HCl reaction; FAT CLAY (CH), light gray (10YR7/2) mottled brownish yellow (10YR6/6) very stiff, moist, trace carbonate nodules and manganese nodules
42.7	38.0	6	6	9	15	SS-11			38.0ft: brownish yellow (10YR6/6) mottled light gray (10YR7/2), stiff, strong HCl reaction, some organics
37.7	43.0	6	7	9	16	SS-12			43.0ft: light olive gray (5Y6/2) mottled brownish yellow (10YR6/6), very stiff, few carbonate nodules
32.7	48.0	9	9	11	20	SS-13			48.0ft: light gray (5Y7/2) mottled brownish yellow (10YR6/6), trace carbonate nodules
27.7	53.0	4	7	9	16	SS-14			53.0ft: light gray (10YR7/2), mottled brownish yellow (10YR6/6)

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2266	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,874 US ft (NAD83)	EASTING 2,600,354 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/11/07	COMPLETED 11/12/07	CASING DEPTH: N/A	BITS USED: 2 15/16" Roller Cone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.6					Continued from previous page				
22.7	58.0								FAT CLAY (CH), light gray (10YR7/2) mottled brownish yellow (10YR6/6) very stiff, moist, trace carbonate nodules and manganese nodules *(continued)* 58.0ft: hard, trace fine sand
		11	18	20	38	SS-15			
17.7	63.0								63.0ft: light brownish gray (10YR6/2), stiff
		4	7	8	15	SS-16			
12.7	68.0								68.0ft: pale brown (10YR6/3), very stiff, trace ferrous staining
		5	8	8	16	SS-17			
7.7	73.0								73.0ft: light yellowish brown (10YR6/4), mottled with light gray (10YR7/2), trace organics
		5	7	9	16	SS-18			
2.7	78.0								78.0ft: light brownish gray (10YR6/2), trace manganese nodules
		7	8	11	19	SS-19			
-2.3	83.0								83.0ft: light gray (5Y7/2) mottled light yellowish brown (10YR6/4), strong HCl reaction
		5	8	11	19	SS-20			
-7.3	88.0								-7.3 — 88.0
		7	18	15	33	SS-21			Clayey SAND (SC), light brownish gray (10YR6/2), dense, wet, little fines, 0.2 ft thick layer of FAT CLAY (CH) light gray (5Y7/2) from 88.6 to 88.8 feet
-12.3	93.0								-12.3 — 93.0
		31	25	30	55	SS-22A/B			-12.8 — 93.5; -13.3 — 94.0; -14.3 — 95.0; POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), very dense, wet, trace fines, weak HCl reaction; FAT CLAY (CH), light gray (5Y7/2), hard, moist, few carbonate nodules, strong HCl reaction; Clayey SAND (SC), light gray (5Y7/2), very dense, moist
-17.3	98.0								
		22	35	33	68	SS-23			POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), very dense, moist, few fines, strong HCl reaction
-27.3	108.0								-27.3 — 108.0
		22	31	28	59	SS-24			POORLY GRADED SAND with silt (SP-SM), yellow (10YR7/6), very dense, moist, fine to medium grained, few fines, few carbonate nodules, strong HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2266	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,874 US ft (NAD83)	EASTING 2,600,354 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/11/07	COMPLETED 11/12/07	CASING DEPTH: N/A	BITS USED: 2 15/16" Roller Cone

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				
									-34.3 FAT CLAY (CH), light gray (5Y7/2) mottled brownish yellow (10YR6/6), very stiff, moist, few carbonate nodules, trace organics — 115.0
-37.3	118.0	7	10	9	19	SS-25			
-47.3	128.0	28	47	47	94	SS-26			-47.3 FAT CLAY with sand (CH), very pale brown (10YR8/2), hard, moist, little sand, strong HCl reaction — 128.0
-57.3	138.0	15	26	28	54	SS-27			-57.3 POORLY GRADED SAND with silt (SP-SM), yellow (10YR7/6), very dense, wet, few fines, strong HCl reaction — 138.0
									-61.3 POORLY GRADED SAND (SP), very pale brown (10YR7/4), dense, wet, trace fines, strong HCl reaction — 142.0
-67.3	148.0	23	21	24	45	SS-28			-68.8 — 149.5
									Boring Terminated at Elevation -68.8 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] Date 6.12.08

Checked By KAW Date 7.10.08

SHEET 1 OF 3

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2267	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,958 US ft (NAD83)	EASTING 2,600,424 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/12/07	COMPLETED 11/13/07	CASING DEPTH: 4.0 ft	BITS USED: 2 15/16" Roller Cone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.7					Ground Surface				80.7 / 0.0
80.7	0.0	2	3	2	5	SS-1			FAT CLAY (CH), dark gray (5Y4/1), firm, moist, no HCl reaction, trace grass and roots
77.7	3.0	2	2	3	5	SS-2			3.0ft: light gray (5Y7/1 and 10YR7/2), trace carbonate nodules, trace black organic streaks, strong HCl reaction
75.7	5.0	2	2	4	6	SS-3			
72.7	8.0	4	7	9	16	SS-4			8.0ft: mottled brownish yellow (10YR6/6), very stiff
70.7	10.0	4	5	5	10	SS-5			10.0ft: stiff
67.7	13.0	3	7	10	17	SS-6			13.0ft: brownish yellow (10YR6/6), mottled light gray (10YR7/1), very stiff
62.7	18.0	4	5	8	13	SS-7			18.0ft: stiff
57.7	23.0	4	5	6	11	SS-8			23.0ft: light yellowish brown (10YR6/4), mottled light gray (10YR7/2),
52.7	28.0	7	11	12	23	SS-9			52.7 / 28.0 Silty SAND (SM), light gray (10YR7/2), very firm, wet, little fines, no HCl reaction
47.7	33.0	12	14	15	29	SS-10			
42.7	38.0	8	13	15	28	SS-11			42.7 / 38.0 FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), very stiff, moist, trace carbonate nodules, trace black organic streaks
37.7	43.0	5	7	8	15	SS-12			43.0ft: stiff
32.7	48.0	5	7	9	16	SS-13			48.0ft: brownish yellow (10YR6/6), mottled light gray (10YR7/1), very stiff, weak HCl reaction
27.7	53.0	6	8	10	18	SS-14			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2267	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,958 US ft (NAD83)	EASTING 2,600,424 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/12/07	COMPLETED 11/13/07	CASING DEPTH: 4.0 ft	BITS USED: 2 15/16" Roller Cone

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.6					Continued from previous page				
22.7	58.0								FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/6), very stiff, moist, trace carbonate nodules, trace black organic streaks *(continued)* 58.0ft: very pale brown (10YR7/3), hard, few carbonate nodules, little sand
		18	25	19	44	SS-15			
17.7	63.0								63.2 to 64.3ft: interbedded POORLY GRADED SAND with silt (10YR6/3), dense, wet, few fines, no HCl reaction; Clay above and below sand layer is light gray (10YR7/2),
		26	19	16	35	SS-16			
12.7	68.0								68.0ft: very pale brown (10YR7/3), very stiff, trace carbonate nodules, trace ferrous nodules
		7	11	12	23	SS-17			
7.7	73.0								73.0ft: light olive gray (5Y6/2), mottled brownish yellow (10YR6/6)
		5	8	10	18	SS-18			
2.7	78.0								78.0ft: light gray (10YR7/2), little sand, no HCl reaction
		5	8	11	19	SS-19			
-1.3	82.0								Clayey SAND (SC), light gray (5Y7/2), very firm, strong HCl reaction, two 0.15ft-thick layers of white carbonate
-2.3	83.0								
		6	9	12	21	SS-20			
-7.3	88.0								88.0ft: mottled very pale brown (10YR7/4), dense, moist, little fines, few carbonate nodules, strong HCl reaction
		12	15	18	33	SS-21			
-12.3	93.0								93.0ft: very pale brown (10YR8/2), very dense
		15	30	50	80	SS-22			93.4ft: 0.1'-thick layer of poorly graded sand
-17.3	98.0								
		50	50	50	100/1.0	SS-23			POORLY GRADED SAND (SP), yellow (10YR7/6), very dense, moist, fine to medium grained, trace to few fines, strong HCl reaction
-23.3	104.0								POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR8/2), very dense, wet, fine to coarse grained, trace gravel, few fines, strong HCl reaction
-27.3	108.0								
		26	42	18	60	SS-24			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2267	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,412,958 US ft (NAD83)	EASTING 2,600,424 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 149.5 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/12/07	COMPLETED 11/13/07	CASING DEPTH: 4.0 ft	BITS USED: 2 15/16" Roller Cone

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), very pale brown (10YR8/2), very dense, wet, fine to coarse grained, trace gravel, few fines, strong HCl reaction *(continued)*
-37.3	118.0								-37.3 118.0
		7	10	10	20	SS-25			FAT CLAY (CH), pale yellow (5Y7/2), very stiff, moist, trace carbonate nodules, strong HCl reaction, trace ferrous grains and black organic streaks
-47.3	128.0								
		15	22	33	55	SS-26			128.0ft: very pale brown (10YR7/3), hard, little sand
-57.3	138.0								-57.3 138.0
		44	50/0.3		94/0.8	SS-27			POORLY GRADED SAND (SP), yellow (10YR7/6), very dense, moist, trace fines, fine grained sand, strong HCl reaction
									-65.3 146.0
-67.3	148.0								POORLY GRADED SAND with silt and gravel (SP-SM), very pale brown (10YR7/3), dense, wet, fine to coarse grained, little gravel to 1-inch in diameter, few fines, strong HCl reaction
		17	24	16	40	SS-28A/B			-67.8 148.5
									-68.8 149.5 POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), dense, moist, trace fines, no HCl reaction
									Boring Terminated at Elevation -68.8 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [illegible] 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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2268	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,056 US ft (NAD83)	EASTING 2,600,529 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 11/11/07	COMPLETED 11/15/07	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
80.6					Ground Surface				80.6 — 0.0
80.6	0.0	5	4	4	8	SS-1A/B			79.6 — 1.0 Sandy LEAN CLAY (CL), black (5YR2.5/1), firm moist, some sand, organics
77.1	3.5	2	3	5	8	SS-2			FAT CLAY (CH), very dark gray (10YR4/1), firm, moist, few to little sand, organics, yellowish brown nodules, no HCl reaction 3.5ft: greenish gray (5GY6/1), moist, weak HCl reaction, carbonate nodules
74.6	6.0	2	3	5	8	SS-3			6.0ft: strong HCl reaction
72.1	8.5	4	3	5	8	SS-4			8.5ft: mottled with yellowish brown (2.5Y6/3)
69.6	11.0	4	4	5	9	SS-5			11.0ft: stiff
67.1	13.5	2	5	4	9	SS-6			13.5ft: yellowish brown (10YR5/6), mottled greenish gray (5GY6/1)
62.1	18.5	4	5	6	11	SS-7			23.5ft: some sand
57.1	23.5	6	18	20	38	SS-8A/B			56.6 — 24.0 POORLY GRADED SAND (SP), greenish gray (5GY6/1), mottled yellowish brown (10YR5/6), dense, moist, few fines, no HCl reaction
52.1	28.5	8	11	15	26	SS-9			28.5ft: very firm
47.1	33.5	11	14	10	24	SS-10			47.1 — 33.5 Silty SAND (SM), greenish gray (5GY6/1), very firm, moist, little fines, fine grained, yellowish brown nodules, no HCl reaction
42.1	38.5	9	20	23	43	SS-11			38.5ft: dense
37.1	43.5	9	14	16	30	SS-12			37.1 — 43.5 FAT CLAY with sand (CH), yellowish brown (10YR5/6), mottled greenish gray (5GY6/1), very stiff, moist, little sand, strong HCl reaction, carbonate nodules, yellow and brown stains
32.1	48.5	8	12	16	28	SS-13			48.5ft: few sand
27.1	53.5	5	9	10	19	SS-14A/B			

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2268	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,056 US ft (NAD83)	EASTING 2,600,529 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 11/11/07	COMPLETED 11/15/07	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	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.5					Continued from previous page				
22.1	58.5	7	14	22	36	SS-15			FAT CLAY with sand (CH), yellowish brown (10YR5/6), mottled greenish gray (5GY6/1), very stiff, moist, little sand, strong HCl reaction, carbonate nodules, yellow and brown stains *(continued)* 58.5ft: hard
17.1	63.5	4	6	8	14	SS-16			17.1 — 63.5 LEAN CLAY with sand (CL), greenish gray (5GY6/1), stiff, moist, little sand, carbonate nodules, no HCl reaction, yellowish brown stains
12.1	68.5	4	5	6	11	SS-17			12.1 — 68.5 FAT CLAY (CH), grayish brown (10YR5/2), stiff, few sand, carbonate nodules, no HCl reaction, yellowish brown stains
7.1	73.5	5	10	12	22	SS-18			73.5ft: greenish gray (5GY6/1), very stiff
1.6	79.0	4	7	7	14	SS-19			79.0ft: stiff
-2.9	83.5	3	5	6	11	SS-20			
-7.9	88.5	6	4	7	11	SS-21			88.5ft: little sand
-12.9	93.5	10	15	17	32	SS-22			-12.9 — 93.5 POORLY GRADED SAND (SP), greenish gray (5GY6/1), dense, moist, trace fines, fine to medium grained, some yellowish brown nodules, clay mixed with sand at 94.5ft
-17.9	98.5	45	50/0.3		95/0.8	SS-23			98.5ft: light brownish yellow (10YR6/6), very dense, coarse grained, no HCl reaction
-27.9	108.5	23	30	43	73	SS-24			-27.9 — 108.5 Silty SAND (SM), light brownish yellow (10YR6/2), very dense, fine to medium grained, little fines, no HCl reaction

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2268	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,056 US ft (NAD83)	EASTING 2,600,529 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 11/11/07	COMPLETED 11/15/07	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
-31.6					Continued from previous page				
									Silty SAND (SM), light brownish yellow (10YR6/2), very dense, fine to medium grained, little fines, no HCl reaction *(continued)*
									-34.4 — 115.0
									Sandy FAT CLAY (CH), brownish yellow (10YR6/6), very stiff, moist, some medium to coarse grained sand, weak HCl reaction
-37.9	118.5								
		5	10	12	22	SS-25A/B			119.2ft: greenish gray (5GY6/1), mottled yellowish brown (10YR5/6), few sand, strong HCl reaction
-47.9	128.5								
		13	17	20	37	SS-26			128.5ft: light gray (10YR7/1), hard, little sand
-57.9	138.5								
		30	29	32	61	SS-27			-57.9 — 138.5 POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), very dense, moist, trace fines, fine to medium grained, strong HCl reaction
-67.9	148.5								-67.4 — 148.0
		6	8	11	19	SS-28			FAT CLAY (CH), brownish yellow (10YR6/6), mottled greenish gray (5GY6/1), very stiff, moist, trace sand, carbonate nodules, strong HCl reaction,
-77.9	158.5								-77.9 — 158.5
		10	19	23	42	SS-29			POORLY GRADED SAND with clay (SP-SC), light brownish gray (10YR6/2), dense, moist, few fines, fine grained, clay has strong HCl reaction

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2268	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,056 US ft (NAD83)	EASTING 2,600,529 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 11/11/07	COMPLETED 11/15/07	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
-87.7					Continued from previous page				
-87.9	168.5	25	23	10	33	SS-30A/B			-87.9 / 88.6 POORLY GRADED SAND (SP), light brownish gray (10YR6/2), dense, moist, trace fines, fine to medium grained, no HCl reaction (168.5 / 169.2) FAT CLAY (CH), light brownish gray (10YR6/2), hard, moist, few sand, carbonate nodules, strong HCl reaction
-97.9	178.5	27	42	33	75	SS-31			-97.9 (178.5) POORLY GRADED SAND (SP), light brownish gray (10YR6/2), very dense, moist, trace fines, no HCl reaction
-107.9	188.5	50/0.1			50/0.1	SS-32			
-112.9	193.5	50/0.3			50/0.3	SS-33			
-117.9	198.5	43	50/0.3		93/0.8	SS-34			-119.4 (200.0) Boring Terminated at Elevation -119.4 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JDK Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 8

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
80.5	0.0	4	8	8	16	SS-1			Sandy LEAN CLAY (CL), black (5YR2.5/1), very stiff, moist, fine to medium grained sand, trace roots
77.0	3.5	1	4	8	12	SS-2			77.0 / 3.5 FAT CLAY with sand (CH), gray (10YR5/1) and light brownish gray (10YR6/2), stiff to firm, fine to coarse sand, trace organics, strong HCl reaction
74.5	6.0	1	3	4	7	SS-3			
72.0	8.5	3	6	17	23	SS-4			72.0 / 8.5 LEAN CLAY (CL), brownish yellow (10YR6/6), mottled orange, gray and white, very stiff, few fine to medium grained sand, trace organics
69.5	11.0	6	11	12	23	SS-5			
67.0	13.5	4	5	9	14	SS-6			67.0 / 13.5 FAT CLAY (CH), brownish yellow (10YR6/6) and light yellowish brown (10YR6/4), mottled black, orange and gray, stiff, fine to medium grained sand, few organics at 20.4ft
60.1	20.4	5	7	11	18	SS-7			20.4ft: very stiff
55.1	25.4	9	10	16	26	SS-8			55.1 / 25.4 Clayey SAND (SC), pale yellow (2.5Y7/3) and light yellowish brown (2.5Y6/3), very firm, moist, fine to medium grained sand, no to weak HCl reaction
50.1	30.4	7	12	16	28	SS-9			
45.1	35.4	9	12	14	26	SS-10			45.1 / 35.4 Sandy LEAN CLAY (CL), pale brown (10YR6/3) and yellowish brown (10YR5/4), mottled orange, black, and white, very stiff, moist, fine to medium grained sand, trace organics, strong HCl reaction
40.1	40.4	3	5	8	13	SS-11			40.4ft: stiff
35.1	45.4	5	9	13	22	SS-12			35.1 / 45.4 FAT CLAY with sand (CH), brownish yellow (10YR6/6) and light gray (2.5Y7/1), very stiff, moist, fine to medium grained sand, strong HCl reaction
30.0	50.5	5	9	13	22	SS-13			
25.1	55.4	4	7	10		SS-14			25.1 / 55.4

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" Drag Bit

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
24.3					Continued from previous page				
					17				FAT CLAY (CH), light gray (2.5Y7/1), mottled orange, very stiff, moist, fine to medium grained sand, weak HCl reaction *(continued)*
20.1	60.4								20.1 — 60.4
		7	9	12	21	SS-15			Sandy LEAN CLAY (CL), light gray (2.5Y7/1), very stiff, moist, fine to coarse grained sand and gravel, strong HCl reaction
15.1	65.4								15.1 — 65.4
		26	13	17	30	SS-16			FAT CLAY (CH), light gray (10YR7/2) and gray (2.5Y6/1), very stiff, moist, fine to coarse grained sand, trace organics, strong HCl reaction
10.1	70.4								
		3	6	9	15	SS-17			70.4ft: stiff
5.1	75.4								5.1 — 75.4
		6	7	9	16	SS-18			Sandy LEAN CLAY (CL), gray (2.5Y6/1), very stiff, moist, fine to medium grained sand, strong HCl reaction
0.0	80.4								0.0 — 80.4
		6	5	6	11	SS-19			Clayey SAND (SC), light gray (10YR7/1), firm, moist, fine to medium grained sand, no HCl reaction
-5.0	85.4								
		9	11	13	24	SS-20			85.4ft: very firm
-10.0	90.4								-10.0 — 90.4
		4	8	12	20	SS-21			Sandy LEAN CLAY (CL), light gray (10YR7/1), very stiff, wet, fine to medium grained sand, trace organics, weak HCl reaction
-15.0	95.4								-15.0 — 95.4
		35	27	28	55	SS-22			Silty, clayey SAND (SC-SM), light gray (10YR7/1) and brownish yellow (10YR6/6), very dense, moist, fine to coarse grained sand, strong HCl reaction
-20.0	100.4								-20.0 — 100.4
		17	21	27	48	SS-23			Sandy silty CLAY (CL-ML), light gray (10YR7/1), hard, moist, fine to medium grained sand, strong HCl reaction
-30.0	110.4								-30.0 — 110.4
		27	33	26	59	SS-24			

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-31.8					Continued from previous page				
									POORLY GRADED SAND (SP), pale yellow (2.5Y7/3), very dense, wet, few gravel, strong HCl reaction (visual) *(continued)*
-40.0	120.4								-39.6 — 120.0
		7	12	18	30	SS-25			FAT CLAY (CH), light gray (5Y7/2), very stiff, moist, fine to medium grained sand, strong HCl reaction
-50.0	130.4								-50.0 — 130.4
		15	27	32	59	SS-26			Silty, clayey SAND (SC-SM), pale yellow (2.5Y7/3), very dense, moist, fine to medium grained sand, strong HCl reaction
-60.0	140.4								-60.0 — 140.4
		16	21	30	51	SS-27			Silty SAND (SM), light gray (10YR7/2), very dense, wet, fine to medium grained sand, strong HCl reaction (visual)
-70.0	150.4								-69.6 — 150.0
		6	9	15	24	SS-28			FAT CLAY with sand (CH), light gray (5Y7/2), very stiff, moist, fine to medium grained sand, strong HCl reaction
-81.3	161.7								-81.3 — 161.7
		3	4	6	10	SS-29			Sandy LEAN CLAY (CL), light gray (5Y7/2), stiff, moist, fine to medium grained sand, trace organics, weak HCl reaction

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-87.9					Continued from previous page				
-91.3	171.7								Sandy LEAN CLAY (CL), light gray (5Y7/2), stiff, moist, fine to medium grained sand, trace organics, weak HCl reaction *(continued)*
		28	50	50/0.4	100/0.3	SS-30			-91.3 — 171.7 Silty SAND (SM), pale yellow (2.5Y7/3) and brownish yellow (10YR6/6), very dense, wet, fine to medium grained sand and gravel, strong to no HCl reaction (visual)
-101.3	181.7								
		24	27	32	59	SS-31			
-111.3	191.7								
		50/0.4			50/0.4	SS-32			
-121.3	201.7								-121.3 — 201.7 Silty, clayey SAND (SC-SM), pale yellow (2.5Y7/4), very dense, wet, fine to coarse grained sand, strong HCl reaction
		18	25	36	61	SS-33			
-135.6	216.0								Clayey SAND (SC), light gray (2.5Y7/2), very dense, wet, fine to medium grained sand, strong HCl reaction
-141.3	221.7								
		24	30	41	71	SS-34			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-144.0					Continued from previous page				
									Clayey SAND (SC), light gray (2.5Y7/2), very dense, wet, fine to medium grained sand, strong HCl reaction *(continued)*
-161.4	241.8	17	49	50/0.2	99/0.7	SS-35			
-181.4	261.8	26	31	46	77	SS-36			261.8ft: light gray (2.5Y7/1), trace organics, few carbonate nodules

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-200.1					Continued from previous page				
-201.4	281.8	13	11	22	33	SS-37			Clayey SAND (SC), light gray (2.5Y7/2), very dense, wet, fine to medium grained sand, strong HCl reaction *(continued)* 281.8ft: light gray (2.5Y7/2), dense, moist, fine to coarse grained sand, no HCl reaction
-221.4	301.8	7	13	18	31	SS-38			FAT CLAY (CH), light gray (2.5Y7/2, 10YR7/2), mottled with black and orange, hard, moist, fine to medium grained sand, strong HCl reaction
-241.4	321.8	8	29	38	67	SS-39A/B			321.8ft: split sample: SS-39A from 321.8-322.6ft and SS-39B from 322.6-323.3ft; Sandy LEAN CLAY (CL), light gray (10YR7/2), hard, moist, fine to medium grained sand, strong HCl reaction

-221.4 301.8

-242.2 322.6

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Liles	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-256.2					Continued from previous page				
									Sandy LEAN CLAY (CL), light gray (10YR7/2), hard, moist, fine to medium grained sand, strong HCl reaction *(continued)*
-261.4	341.8								-261.4 — 341.8
		9	9	15	24	SS-40			LEAN CLAY with sand (CL), brownish yellow (10YR6/6), very stiff, fine to medium sand, strong HCl reaction
-281.4	361.8								-281.4 — 361.8
		8	34	41	75	SS-41			Sandy LEAN CLAY (CL), pale brown (10YR6/3), hard, fine to medium grained sand, strong HCl reaction
									-299.6 — 380.0
-301.4	381.8								FAT CLAY (CH), light gray (2.5Y7/2), hard, moist, fine to medium grained sand, few organics, strong HCl reaction
		9	14	21	35	SS-42			

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Liles
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.5 ft (NAVD88)	NORTHING 13,413,117 US ft (NAD83)	EASTING 2,600,583 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 403.3 ft	DRILL MACHINE CME-85	DRILLER: R. White/J. Dugger	HAMMER (ID) 140 lb. Auto (MEC 10)
DATE STARTED 11/8/07	COMPLETED 11/13/07	CASING DEPTH: N/A	BITS USED: 3 7/8" 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
-312.3					Continued from previous page				
									FAT CLAY (CH), light gray (2.5Y7/2), hard, moist, fine to medium grained sand, few organics, strong HCl reaction *(continued)*
-321.4	401.8	5	14	21	●35	SS-43			-322.9 / 403.3
									Boring Terminated at Elevation -322.9 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JDH Date 6-12-08

Checked By KAW Date 7.10.08

SHEET 1 OF 8

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
80.1					Ground Surface				80.1 0.0
70.1	10.0					UD-1			10.0ft: LEAN CLAY (CL), brownish yellow (10YR6/6), mottled light gray (5Y7/2), fine grained sand, with carbonate inclusions - 1.5ft recovery
67.1	13.0					UD-2			13.0ft: FAT CLAY (CH), brownish yellow (10YR6/6), mottled light gray (5Y7/2), fine grained sand - 2.0ft recovery
50.1	30.0					UD-3			30.0ft: Sandy LEAN CLAY (CL), very pale brown (10YR7/3), fine to medium grained sand - 1.6ft recovery
47.1	33.0					UD-4			33.0ft: Sandy LEAN CLAY (CL), light brownish gray (10YR6/2), to very pale brown (10YR7/3), fine to coarse grained sand, fine gravel - 1.75ft recovery 34.8ft: bottom 0.4ft of tube is damaged
30.1	50.0					UD-5			50.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), fine to medium grained sand, trace carbonate inclusions - 1.65ft recovery 51.7ft: bottom 0.1ft of tube is slightly damaged
27.1	53.0					UD-6			53.0ft: FAT CLAY (CH), brownish yellow (10YR6/6), mottled light gray (5Y7/2), trace black organic streaks - 1.7ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
24.0					Continued from previous page				
10.1	70.0					UD-7			70.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), fine to coarse grained sand, trace carbonate inclusions, trace black organic streaks - 1.65ft recovery
7.1	73.0					UD-8			73.0ft: FAT CLAY (CH), brownish yellow (10YR6/6), mottled light gray (5Y7/1), fine to coarse grained sand, fine gravel, trace carbonate inclusions - 1.66ft recovery 74.7ft: bottom of tube is slightly bent

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-32.1					Continued from previous page				
-39.9	120.0					UD-9			120.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), 0.1ft-diameter carbonate nodule at bottom of tube - 1.7ft recovery
-42.9	123.0					UD-10			121.7ft: bottom 0.2ft of tube is damaged 123.0ft: FAT CLAY (CH), light gray (5Y7/2), fine to medium grained sand, fine gravel, trace carbonate inclusions at 123ft, strong HCl reaction - push refusal, 0.8ft recovery 123.8ft: bottom 0.2ft of tube is indented and damaged, carbonate in the bottom of the tube
-69.9	150.0					UD-11			150.0ft: FAT CLAY (CH), light gray (5Y7/1), mottled light yellowish brown (10YR6/4), fine to coarse grained sand, trace carbonate inclusions, strong HCl reaction - 1.7ft recovery
-72.9	153.0					UD-12			153.0ft: FAT CLAY with sand (CH), light gray (5Y7/1), mottled light yellowish brown (10YR6/4), fine grained sand - 0.35ft recovery 154.7ft: Sandy FAT CLAY (CH), very pale brown (10YR7/4), fine grained sand
-84.9	165.0					UD-13			165.0ft: push refusal, no recovery, likely in sand

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-88.2					Continued from previous page				
-135.9	216.0								216.0ft: push refusal, 0.2ft recovery 216.2ft: changed sampling method to pitcher barrel drill from shelby push
-136.1	216.2					UD-14 UD-15			216.2ft: Clayey SAND (SC), light gray (5Y7/2), strong HCl reaction, carbonate nodules (~1cm) - pitcher drill refusal, 1.4ft recovery 218.1ft: bottom of tube is slightly damaged

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-144.3					Continued from previous page				
-199.9	280.0								279.0ft: resume shelby push sampling method

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-200.5					Continued from previous page				
						UD-16			280.0ft: Clayey SAND (SC), light gray (5Y7/1), no HCl reaction - push refusal, 1.2ft recovery 281.2ft: bottom of tube is slightly bent
-203.1	283.2					UD-17			283.2ft: Clayey SAND (SC), light gray (5Y7/1), no HCl reaction - push refusal, 0.35ft recovery 283.65ft: bottom 0.1ft of tube is bent

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Moore	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-256.6					Continued from previous page				
-294.9	375.0					UD-18			374.0ft: switch sampling method to pitcher barrel drill 375.0ft: LEAN CLAY with sand (CL), very pale brown (10YR7/3), fine to coarse grained sand, strong HCl reaction - pitcher barrel refusal, 0.7ft recovery
-299.9	380.0					UD-19			380.0ft: FAT CLAY (CH), light gray (5Y7/2), strong HCl reaction - 2.5ft recovery

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST J. Moore
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2269UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 80.1 ft (NAVD88)	NORTHING 13,413,092 US ft (NAD83)	EASTING 2,600,594 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Banks/R. Landaros	HAMMER (ID) NA
DATE STARTED 11/30/07	COMPLETED 12/6/07	CASING DEPTH: 7.0 ft	BITS USED: 5" 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
-312.7					Continued from previous page				
-319.9	400.0					UD-20			400.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), fine to medium grained sand, trace carbonate inclusions, strong HCl reaction - pitcher barrel refusal, 2.0ft recovery
-322.0	402.1								402.1ft: bottom 0.2ft of tube is damaged Boring Terminated at Elevation -322.0 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

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2270	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,179 US ft (NAD83)	EASTING 2,600,633 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Dogg	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/7/07	COMPLETED 11/10/07	CASING DEPTH: N/A	BITS USED: 4 1/2" Roller Cone

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
80.6					Ground Surface				
80.6	0.0	2	2	3	5	SS-1A/B			Sandy LEAN CLAY (CL), black (2.5/N), firm, moist, some sand (0.0–0.5)
77.1	3.5	1	3	2	5	SS-2			FAT CLAY with sand (CH), dark gray (4/N), firm, moist, little sand, some organics, trace ferrous nodules 3.5ft: greenish gray (10Y6/1), carbonate nodules, weak HCl reaction
74.6	6.0	3	4	5	9	SS-3			6.0ft: stiff, black staining
72.1	8.5	5	8	12	20	SS-4			8.5ft: mottled yellowish brown (10YR5/6), very stiff
69.6	11.0	4	6	10	16	SS-5			11.0ft: strong HCl reaction, manganese nodules
67.1	13.5	6	10	12	22	SS-6			FAT CLAY (CH), yellowish brown (10YR5/6), mottled greenish gray (10YR6/1), very stiff, moist, carbonate nodules, strong HCl reaction (13.5–18.5)
62.1	18.5	3	5	8	13	SS-7			18.5ft: stiff, weak HCl reaction
57.1	23.5	4	5	7	12	SS-8			
52.1	28.5	5	6	9	15	SS-9			28.5ft: yellowish brown (10YR5/8), little sand, strong HCl reaction
47.1	33.5	9	13	18	31	SS-10			33.5ft: greenish gray (10Y6/1), hard, weak HCl reaction
42.1	38.5	5	10	16	26	SS-11			38.5ft: mottled yellowish brown (10YR5/8), very stiff
37.1	43.5	6	12	16	28	SS-12			43.5ft: few sand, strong HCl reaction
32.1	48.5	5	8	10	18	SS-13			48.5ft: little sand, weak HCl reaction
27.1	53.5	8	10	15	25	SS-14			53.5ft: mottled yellowish brown (10YR5/4)

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2270	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,179 US ft (NAD83)	EASTING 2,600,633 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Dogg	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/7/07	COMPLETED 11/10/07	CASING DEPTH: N/A	BITS USED: 4 1/2" Roller Cone

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
24.5					Continued from previous page				
22.1	58.5								FAT CLAY (CH), yellowish brown (10YR5/6), mottled greenish gray (10YR6/1), very stiff, moist, carbonate nodules, strong HCl reaction *(continued)*
		6	9	10	19	SS-15			
17.1	63.5								17.1 — 63.5
		12	12	44	56	SS-16			Sandy LEAN CLAY (CL), greenish gray (10Y6/1), mottled yellowish brown (10YR5/6), hard, moist, some sand, carbonate nodules, weak HCl reaction
12.1	68.5								12.1 — 68.5
		5	7	10	17	SS-17			FAT CLAY (CH), gray (10YR6/1), mottled brownish yellow (10YR6/6), very stiff, few sand, black staining, carbonate nodules, weak HCl reaction
7.1	73.5								
		7	10	14	24	SS-18			
2.1	78.5								
		5	7	9	16	SS-19			78.5ft: little sand, no HCl reaction
-2.9	83.5								-2.9 — 83.5
		7	12	18	30	SS-20			Sandy LEAN CLAY (CL), gray (10YR6/1), very stiff, moist, some sand, no HCl reaction
									-4.4 — 85.0
-7.9	88.5								POORLY GRADED SAND (SP), light gray (10YR7/1), dense, moist, trace fines, fine to medium grained, no HCl reaction
		9	16	18	34	SS-21			
-12.9	93.5								-12.9 — 93.5
		10	12	18	30	SS-22			FAT CLAY (CH), greenish gray (10Y6/1), mottled brownish yellow (10YR6/6), very stiff, moist, few to little sand, carbonate nodules, strong HCl reaction
-17.9	98.5								-17.9 — 98.5
		21	35	40	75	SS-23			POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, trace fines, fine to medium grained, weak HCl reaction
-27.9	108.5								
		22	39	50/0.4	89/0.9	SS-24			

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2270	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,179 US ft (NAD83)	EASTING 2,600,633 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Dogg	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/7/07	COMPLETED 11/10/07	CASING DEPTH: N/A	BITS USED: 4 1/2" Roller Cone

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
-31.6					Continued from previous page				
									POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, moist, trace fines, fine to medium grained, weak HCl reaction *(continued)*
-37.9	118.5								-37.9 118.5
		8	9	12	21	SS-25			FAT CLAY (CH), greenish gray (10Y6/1), very stiff, few sand, carbonate nodules, black manganese and ferrous staining, weak HCl reaction
-47.9	128.5								-47.9 128.5
		16	38	47	85	SS-26			Clayey SAND (SC), light greenish gray (5GY7/1), very dense, moist, little fines, fine grained, strong HCl reaction
-57.9	138.5								-57.9 138.5
		50/0.4			50/0.4	SS-27			Silty SAND (SM), light gray (10YR7/2), very dense, moist, little fines, fine grained, weak HCl reaction
-67.9	148.5								-67.9 148.5
		11	18	19	37	SS-28A/B			FAT CLAY (CH), light gray (10YR7/2), to light brownish gray (10YR6/2), hard, moist, trace to some sand, carbonate nodules, strong HCl reaction
-77.9	158.5								
		8	10	13	23	SS-29			158.5ft: very stiff, trace sand

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2270	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,179 US ft (NAD83)	EASTING 2,600,633 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Dogg	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/7/07	COMPLETED 11/10/07	CASING DEPTH: N/A	BITS USED: 4 1/2" Roller Cone

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
-87.7					Continued from previous page				
-87.9	168.5	29	50/0.5		79/1.0	SS-30			POORLY GRADED SAND (SP), light gray (10YR7/1), very dense, moist, trace fines, strong HCl reaction, carbonate nodules
-97.9	178.5	28	23	23	46	SS-31A/B			Clayey SAND (SC), pale yellow (5Y7/3), dense, wet, little fines, coarse grained, strong HCl reaction; FAT CLAY with sand (CH), light gray (10YR7/2), hard, moist, little sand, strong HCl reaction
-107.9	188.5	19	50/0.3		69/0.8	SS-32			POORLY GRADED SAND (SP), yellow (5Y7/6), very dense, moist, fine grained, trace fines, weak HCl reaction
-117.9	198.5	41	50/0.3		91/0.8	SS-33			198.5ft: No recovery, assume same as above
-137.9	218.5	50/0.3			50/0.3	SS-34			POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), very dense, moist, strong HCl reaction

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 (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2270	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,179 US ft (NAD83)	EASTING 2,600,633 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 300.0 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Dogg	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/7/07	COMPLETED 11/10/07	CASING DEPTH: N/A	BITS USED: 4 1/2" Roller Cone

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
-143.8					Continued from previous page				
									POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), very dense, moist, strong HCl reaction *(continued)*
-157.9	238.5								-157.9 — 238.5
		30	50/0.4		80/0.9	SS-35			POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), very dense, wet, few fines, coarse grained, weak HCl reaction
-177.9	258.5								-177.9 — 258.5
		50/0.4			50/0.4	SS-36			Sandy FAT CLAY (CH), pale yellow (2.5YR7/3), to light greenish gray (5GY8/1), hard, moist, some sand, strong HCl reaction, trace carbonate nodules, strong HCl reaction
-197.9	278.5								
		18	32	49	81	SS-37			278.5ft: mottled olive yellow (2.5Y6/8)

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