MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST J. Jarvis	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2277	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	.0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,412,962 US ft (NAD83)	EASTING 2,600,645 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 150.3 ft	DRILL MACHINE CME-45	DRILLER: D. Rhodes/K. Guy	HAMMER (ID) 140 lb. Auto (MEC 13)
DATE STARTED 12/11/07	COMPLETED 12/15/07	CASING DEPTH: N/A	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				
-32.8	113.4								111.0ft: pale brown (10YR6/3), strong HCl reaction
		8	8	13	21	SS-46			FAT CLAY (CH), light gray (10YR7/2), mottled brownish yellow (10YR6/8), very stiff, moist, few to little sand, black stains, carbonate nodules, strong to weak HCl reaction
-35.6	116.2								
		7	8	10	18	SS-47			
-38.3	118.9								
		6	7	11	18	SS-48			
-40.6	121.2								
		5	7	9	16	SS-49			
-43.3	123.9								
		5	9	15	24	SS-50			
-45.7	126.3								
		9	14	15	29	SS-51			
-48.3	128.9								
		8	10	12	22	SS-52			
-50.6	131.2								
		7	11	11	22	SS-53			
-53.2	133.8								
		8	10	13	23	SS-54			
-55.4	136.0								
		1	3	4	7	SS-55			POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), loose, wet, coarse grained, trace fines, strong HCl reaction
-57.8	138.4								
		15	22	27	49	SS-56			138.4ft: dense
-60.4	141.0								
		17	17	21	38	SS-57			
-63.2	143.8								
		15	23	21	44	SS-58			
-65.4	146.0								
		15	13	11	24	SS-59			146.0ft: very firm
-68.2	148.8								
		15	36	35	71	SS-60			148.8ft: very dense
									Boring Terminated at Elevation -69.7 ft

-32.8 113.4 -55.4 136.0 -69.7 150.3

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 L. Bisson/S. Lehman
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2278	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,084 US ft (NAD83)	EASTING 2,600,746 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/ C Hayden	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 12/11/07	COMPLETED 12/12/07	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	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
80.7					Ground Surface				
80.7	0.0	3	5	7	12	SS-1			Sandy LEAN CLAY (CL), dark gray (10YR4/1), stiff, moist, some sand, no HCl reaction, trace roots
77.2	3.5	7	7	6	13	SS-2			FAT CLAY with sand (CH), gray (10YR6/1), stiff, moist, little sand, weak HCl reaction, trace carbonate nodules
74.7	6.0	3	3	5	8	SS-3			6.0ft: light yellowish brown (2.5Y6/3), firm
72.2	8.5	5	6	7	13	SS-4			8.5ft: light gray (10YR7/1), to brownish yellow (10YR6/8), stiff, strong HCl reaction
69.7	11.0	3	4	6	10	SS-5			11.0ft: light gray (10YR7/1), to reddish yellow (7.5YR6/6)
67.2	13.5	4	5	6	11	SS-6			13.5ft: strong brown (7.5YR5/6), trace black staining
60.8	19.9	5	7	10	17	SS-7			FAT CLAY (CH), yellowish brown (10YR5/6), very stiff, moist, few sand, strong HCl reaction
55.8	24.9	5	7	14	21	SS-8			24.9ft: gray (2.5Y6/1), no to weak HCl reaction
53.2	27.5								Clayey SAND (SC), light gray (2.5Y7/1), to brownish yellow (10YR6/6), very firm, moist, little fines, no HCl reaction
50.8	29.9	9	10	15	25	SS-9A/B			FAT CLAY with sand (CH), gray (2.5Y6/1), very stiff, moist, little sand, no HCl reaction
45.8	34.9	6	9	11	20	SS-10			34.9ft: light olive gray (5Y6/2), some sand, trace carbonate nodules, trace of black staining
41.8	38.9	8	10	15	25	SS-11			39.9ft: light brownish gray (2.5Y6/2), to brownish yellow (10YR6/8), strong HCl reaction
35.8	44.9	5	7	10	17	SS-12			44.9ft: yellowish brown (10YR5/6), with light greenish gray (10Y7/1), few sand
30.8	49.9	6	8	9	17	SS-13			49.9ft: yellowish brown (10YR5/6), to greenish gray (10Y6/1), little sand
25.8	54.9	5	6	9	15	SS-14			

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

MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST L. Bisson/S. Lehman	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2278	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,084 US ft (NAD83)	EASTING 2,600,746 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/ C Hayden	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 12/11/07	COMPLETED 12/12/07	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				
									FAT CLAY (CH), greenish gray (10Y6/1), spotted with strong brown (7.5YR5/6), stiff, few sand, weak HCl reaction *(continued)*
21.8	58.9								
		5	5	7	12	SS-15			59.9ft: greenish gray (10Y6/1), little sand
15.8	64.9								15.8 — 64.9
		21	18	19	37	SS-16			POORLY GRADED SAND with clay (SP-SC), light yellowish brown (2.5Y6/3), laminated with yellowish brown (10YR5/8), dense, wet, few fines, strong HCl reaction
10.8	69.9								10.8 — 69.9
		4	6	9	15	SS-17			FAT CLAY (CH), greenish gray (10Y5/1), veined with light greenish gray (10Y7/1), stiff, moist, few sand, weak HCl reaction, trace carbonate nodules
5.8	74.9								
		6	7	9	16	SS-18			74.9ft: light brownish gray (2.5Y6/2), very stiff, little fines, no HCl reaction
0.9	79.8								
		28	19	17	36	SS-19			79.8ft: light olive gray (5Y6/2), hard, little sand, little carbonate nodules
-4.2	84.9								-4.2 — 84.9
		4	11	13	24	SS-20A/B			-5.0 Clayey SAND (SC), light gray (2.5Y7/2), very firm, wet, few fines, no HCl reaction — 85.7
									Sandy LEAN CLAY (CL), light gray (5Y6/2), very stiff, moist, little sand, no HCl reaction, trace carbonate nodules
-9.2	89.9								
		12	15	16	31	SS-21A/B			89.9-91.4ft: interbedded with poorly graded sand with clay, light gray (2.5Y/2), dense, wet, few fines, no HCl reaction
-14.2	94.9								
		9	22	31	53	SS-22			94.9ft: light gray (2.5Y7/2), hard, some sand, weak to strong HCl reaction, trace carbonate nodules
-19.2	99.9								-19.2 — 99.9
		50/0.3			50/0.3	SS-23			Clayey SAND (SC), light gray (2.5Y7/2), very dense, wet, few fines, strong HCl reaction, some carbonate nodules
-29.2	109.9								-29.2 — 109.9
		28	45	50	95	SS-24			POORLY GRADED SAND (SP), light yellowish brown (2.5Y6/3), very dense, wet, trace fines, strong HCl reaction, trace carbonate nodules

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

MACTEC

BECHTEL PROJECT NO.: 25352		COUNTY Victoria	GEOLOGIST L. Bisson/S. Lehman
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2278	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,084 US ft (NAD83)	EASTING 2,600,746 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/ C Hayden	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 12/11/07	COMPLETED 12/12/07	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 (SP), light yellowish brown (2.5Y6/3), very dense, wet, trace fines, strong HCl reaction, trace carbonate nodules *(continued)*
-39.2	119.9								-39.2 — 119.9
		14	13	14	27	SS-25			FAT CLAY (CH), light greenish gray (10Y7/1), mottled strong brown (7.5YR5/8), very stiff, moist, few sand, no to weak HCl reaction, trace carbonate nodules
-49.2	129.9								
		15	18	18	36	SS-26			129.9ft: hard
									-54.8 — 135.5
									POORLY GRADED SAND (SP), light yellowish brown (2.5Y6/3), dense, wet, trace fines, strong HCl reaction
-59.2	139.9								
		22	20	24	44	SS-27			
									-67.3 — 148.0
									FAT CLAY (CH), light greenish gray (10Y7/1), mottled strong brown (7.5YR5/8), hard, moist, trace sand, weak HCl reaction, trace black nodules
-69.2	149.9								
		9	15	18	33	SS-28			-70.7 — 151.4
									Boring Terminated at Elevation -70.7 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPJr 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-2279	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,413,192 US ft (NAD83)	EASTING 2,600,812 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.8 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	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	6	5	5	10	SS-1			FAT CLAY (CH), greenish black (5GY2.5/1), stiff, moist, few sand, trace roots, no HCl reaction
76.8	3.5	2	2	3	5	SS-2			3.5ft: dark greenish gray (5GY4/1), firm, some carbonate nodules, weak HCl reaction
74.3	6.0	2	2	3	5	SS-3			
71.8	8.5	6	7	7	14	SS-4			8.5ft: yellowish brown (10YR5/4, 10YR5/6), stiff, strong HCl reaction
69.3	11.0	3	6	7	13	SS-5			
66.8	13.5	3	4	5	9	SS-6			13.5ft: yellowish brown (10YR5/6) mottled greenish gray (5GY6/1)
61.8	18.5	2	4	4	8	SS-7			61.8 — 18.5: FAT CLAY (CH) brownish yellow (10YR6/8), mottled greenish gray (5GY6/1), firm, moist, few sand, weak HCl reaction
56.8	23.5	3	4	6	10	SS-8			23.5ft: yellowish brown (10YR5/4), slightly mottled greenish gray (5GY6/1), stiff
51.8	28.5	5	5	7	12	SS-9			51.8 — 28.5: Sandy LEAN CLAY (CL), greenish gray (5GY6/1), stiff, moist, some sand, some carbonate nodules, weak HCl reaction
46.8	33.5	6	8	12	20	SS-10			33.5ft: mottled yellowish brown (10YR 5/4), very stiff, little sand, trace possible manganese nodules, no HCl reaction
41.8	38.5	5	7	9	16	SS-11			
36.8	43.5	4	7	9	16	SS-12			
31.8	48.5	10	9	13	22	SS-13			31.8 — 48.5: FAT CLAY (CH), greenish gray (5GY6/1), mottled yellowish brown (10YR5/6), very stiff, moist, some sand, some carbonate nodules, strong HCl reaction
26.8	53.5	9	12	20	32	SS-14A/B			26.0 — 54.3: POORLY GRADED SAND (SP), greenish gray (5GY6/1), dense, moist, few 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-2279	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,413,192 US ft (NAD83)	EASTING 2,600,812 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.8 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	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								POORLY GRADED SAND (SP), greenish gray (5GY6/1), dense, moist, few fines, no HCl reaction *(continued)*
		6	11	16	27	SS-15A/B			21.8 — 58.5; 21.1 — 59.2: Sandy FAT CLAY (CH), greenish gray (5GY6/1), mottled yellowish brown (10YR5/6), very stiff, moist, some sand, few carbonate nodules, strong HCl reaction
16.8	63.5								POORLY GRADED SAND (SP), greenish gray (5GY6/1), very firm, moist, few fines, no HCl reaction; 16.8 — 63.5
		15	32	50/0.4	82/0.9	SS-16			Clayey SAND (SC), light brownish gray (10YR6/2), very dense, moist, fine to coarse grained, few fines, weak HCl reaction
11.8	68.5								11.8 — 68.5: FAT CLAY (CH), dark grayish brown (10YR4/2), very stiff, moist, few sand, few carbonate nodules, strong HCl reaction
		4	6	10	16	SS-17			
6.8	73.5								
		8	8	12	20	SS-18			
1.8	78.5								
		11	17	17	34	SS-19			78.5ft: light gray (10YR7/1), hard
-3.2	83.5								-3.2 — 83.5: Silty SAND (SM), light gray (10YR7/1), mottled yellowish brown (10YR5/6), very firm, moist, little fines, some carbonate nodules, strong HCl reaction
		9	10	18	28	SS-20			
-8.2	88.5								-8.2 — 88.5: FAT CLAY (CH), greenish gray (5GY6/1), mottled yellowish brown (10YR5/8), very stiff, moist, few sand, few carbonate nodules, strong HCl reaction
		4	6	10	16	SS-21			
-13.2	93.5								
		8	9	14	23	SS-22			-14.7 — 95.0: POORLY GRADED SAND (SP), greenish gray (5GY6/1), mottled yellowish brown (10YR5/8), very dense, moist, medium to coarse grained, few fines, strong HCl reaction
-18.2	98.5								
		13	26	32	58	SS-23			
-28.2	108.5								
		25	30	33	63	SS-24			108.5ft: light brownish gray (10YR 6/2)

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 (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2279	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,413,192 US ft (NAD83)	EASTING 2,600,812 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.8 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	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				
									POORLY GRADED SAND (SP), greenish gray (5GY6/1), mottled yellowish brown (10YR5/8), very dense, moist, medium to coarse grained, few fines, strong HCl reaction *(continued)*
-38.2	118.5								-38.2 — 118.5
		5	6	18	24	SS-25			FAT CLAY (CH), greenish gray (5GY6/1), mottled yellowish brown (10YR5/8), very stiff, moist, few sand, some carbonate nodules, no to strong HCl reaction in clay
-48.2	128.5								
		9	12	14	26	SS-26			
-58.2	138.5								-58.2 — 138.5
		6	19	39	58	SS-27			POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), very dense, moist, fine grained, few fines
									-66.7 — 147.0
-68.2	148.5								FAT CLAY (CH), yellowish brown (10YR5/4), very stiff, moist, few sand, few carbonate nodules, weak to strong HCl reaction
		8	11	14	25	SS-28			
-78.2	158.5								-78.2 — 158.5
		22	19	27	46	SS-29			POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), dense to very dense, moist, fine 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 A. Osorio	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2279	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,413,192 US ft (NAD83)	EASTING 2,600,812 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.8 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 11/15/07	COMPLETED 11/16/07	CASING DEPTH: N/A	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
-88.0					Continued from previous page				
-88.2	168.5	45	40	50/0.4	90/0.9	SS-30			POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), dense to very dense, moist, fine grained, few fines, strong HCl reaction *(continued)*
-98.2	178.5	24	27	22	49	SS-31			-98.2 178.5 Silty SAND (SM), greenish gray (5GY6/1), dense, moist, fine grained, little fines, strong HCl reaction, 0.2'-thick carbonate layer from 184.0 to 184.2 feet
-103.2	183.5	40	50/0.5		90/1.0	SS-32			183.5ft: very dense
-108.2	188.5	25	31	39	70	SS-33			
-118.2	198.5	50/0.3			50/0.3	SS-34			-118.5 198.8 Boring Terminated at Elevation -118.5 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

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-2280	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,014 US ft (NAD83)	EASTING 2,600,704 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/16/07	COMPLETED 11/18/07	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
80.6					Ground Surface				80.6 / 0.0
80.6	0.0	2	2	3	5	SS-1			FAT CLAY (CH), dark gray (5Y4/1), firm, moist, no sand, no HCl reaction, trace organics (roots/grass)
77.6	3.0	2	3	3	6	SS-2			3.0ft: gray (5Y6/1), trace carbonate nodules, trace black organic streaks
75.6	5.0	2	4	4	8	SS-3			5.0ft: light olive gray (5Y6/2)
72.6	8.0	4	6	9	15	SS-4			8.0ft: pale brown (10YR6/3), mottled light gray (10YR7/1), stiff, few carbonate nodules
70.6	10.0	7	9	8	17	SS-5			10.0ft: light yellowish brown (10YR6/4), mottled light gray (10YR7/2), very stiff, trace carbonate nodules
67.6	13.0	4	6	7	13	SS-6			13.0ft: light yellowish brown (10YR6/4), mottled light gray (5Y7/2), stiff
62.6	18.0	3	5	6	11	SS-7			18.0ft: light yellowish brown (10YR6/4), mottled light gray (5Y7/2), no carbonate nodules, strong HCl reaction
57.6	23.0	3	4	6	10	SS-8			23.0ft: very pale brown (10YR7/3), mottled light gray (5Y7/2), trace carbonate nodules
52.6	28.0								52.6 / 28.0
47.6	33.0	6	8	13	21	SS-9			Clayey SAND (SC), gray (5Y6/1), very firm, moist, little fines, no HCl reaction, trace black organic streaks
41.6	39.0	8	12	10	22	SS-10			33.0ft: very pale brown (10YR8/3)
37.6	43.0	8	13	13	26	SS-11			38.0ft: light gray (5Y7/2), mottled light yellowish brown (10YR6/4)
32.6	48.0	11	12	13	25	SS-12			43.0ft: light gray (5Y7/1), mottled brownish yellow (10YR6/6)
									32.6 / 48.0
27.6	53.0	6	12	20	32	SS-13			FAT CLAY with sand (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), hard, moist to wet, little sand, strong HCl reaction
									27.6 / 53.0
		6	11	11	22	SS-14			Clayey SAND (SC), light gray (5Y7/2), mottled brownish yellow (10YR6/6), very firm, moist, little fines, 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-2280	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,014 US ft (NAD83)	EASTING 2,600,704 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/16/07	COMPLETED 11/18/07	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
24.5					Continued from previous page				
22.6	58.0								22.6 — 58.0
		5	11	12	23	SS-15			FAT CLAY with sand (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), very stiff, moist, little sand, strong HCl reaction
17.6	63.0								
		5	6	10	16	SS-16			63.0ft: trace sand, trace carbonate nodules, trace black organic streaks
12.6	68.0								
		4	7	7	14	SS-17			68.0ft: gray (5Y6/1), stiff, trace black nodules
7.6	73.0								73.0ft: light yellowish brown (10YR6/4), mottled light gray (5Y7/2), few black organic streaks
		5	7	8	15	SS-18			
2.6	78.0								
		7	9	12	21	SS-19			78.0ft: light gray (5Y7/2), very stiff, little sand, no HCl reaction
-2.4	83.0								-2.4 — 83.0
		14	21	21	42	SS-20			Clayey SAND (SC), light gray (5Y7/2), dense, moist, little fines, trace carbonate nodules, strong HCl reaction
-7.4	88.0								-7.4 — 88.0
		5	8	11	19	SS-21			FAT CLAY with sand (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), very stiff, moist, little sand, strong HCl reaction
-12.4	93.0								-11.4 — 92.0
		11	25	25	50	SS-22			POORLY GRADED SAND (SP), very pale brown (10YR7/3), dense, wet to moist, few to trace fines, trace carbonate nodules, weak to strong HCl reaction
-17.4	98.0								
		39	50/0.3		89/0.8	SS-23			98.0ft: very dense
-27.4	108.0								
		16	24	30	54	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-2280	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,014 US ft (NAD83)	EASTING 2,600,704 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/16/07	COMPLETED 11/18/07	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
-31.6					Continued from previous page				
									POORLY GRADED SAND (SP), very pale brown (10YR7/3), dense, wet to moist, few to trace fines, trace carbonate nodules, weak to strong HCl reaction *(continued)*
									-35.4 — 116.0
-37.4	118.0								FAT CLAY (CH), light gray (10YR7/2) and (5Y7/2), mottled brownish yellow (10YR6/6), very stiff, moist, trace to few carbonate nodules, trace black nodules and organic streaks, strong HCl reaction
		8	10	11	21	SS-25			
-47.4	128.0								
		8	14	16	30	SS-26			
-57.4	138.0								-57.4 — 138.0
		6	9	12	21	SS-27			POORLY GRADED SAND (SP), very pale brown (10YR7/3), very firm, moist, no fines, strong HCl reaction
									-64.9 — 145.5
-67.4	148.0								FAT CLAY with sand (CH), light gray (5Y7/2), mottled light yellowish brown (10YR6/4), very stiff, moist, little sand, strong HCl reaction
		6	7	9	16	SS-28			
-77.4	158.0								-77.4 — 158.0
		23	50/0.4		73/0.9	SS-29			POORLY GRADED SAND (SP), very pale brown (10YR8/2), very dense, wet, trace fines, trace carbonate nodules, no HCl reaction
-87.4	168.0								

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-2280	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.6 ft (NAVD88)	NORTHING 13,413,014 US ft (NAD83)	EASTING 2,600,704 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 198.1 ft	DRILL MACHINE CME-550-X	DRILLER: R. Landaros/J. Landaros	HAMMER (ID) 140 lb. Auto (MEC 05)
DATE STARTED 11/16/07	COMPLETED 11/18/07	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
-87.7					Continued from previous page				
		28	32	32	64	SS-30			168.0ft: wet, few fines, strong HCl reaction POORLY GRADED SAND (SP), very pale brown (10YR8/2), very dense, wet, trace fines, trace carbonate nodules, no HCl reaction *(continued)*
-97.4	178.0								-97.4 178.0
		12	11	24	35	SS-31A/B			-98.3 Clayey SAND (SC), light gray (10YR7/2), dense, wet, little fines, no HCl reaction 178.9
									-100.4 FAT CLAY (CH), light gray (10YR7/2), mottled yellowish brown (10YR5/6), hard, moist, few sand, strong HCl reaction 181.0
									POORLY GRADED SAND (SP), very pale brown (10YR7/3), very dense, wet, few fines, strong HCl reaction
-107.4	188.0								
		16	26	49	75	SS-32			
									192.0ft: rig chatter and hard drilling
-117.4	198.0								-117.5 198.1
		50/0.1			50/0.1	SS-33			Boring Terminated at Elevation -117.5 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By [signature] Date 6.12-08

Checked By KAW Date 7.10.08

SHEET 1 OF 3

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-2281	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.4 ft (NAVD88)	NORTHING 13,412,909 US ft (NAD83)	EASTING 2,600,705 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 150.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/4/07	COMPLETED 12/5/07	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
80.4					Ground Surface				80.4 — 0.0
80.4	0.0	5	3	5	8	SS-1			LEAN CLAY with sand (CL), black (2.5/N), firm, moist, little sand, trace organics, no HCl reaction
76.9	3.5	2	2	3	5	SS-2			3.5ft: greenish gray (10Y6/1), trace carbonate nodules, trace yellowish brown staining
74.4	6.0	2	4	5	9	SS-3			6.0ft: light brownish gray (10YR6/2), stiff, some carbonate nodules
71.9	8.5	1	2	3	5	SS-4			71.9 — 8.5 FAT CLAY (CH), greenish gray (10Y6/1), mottled brownish yellow (10YR6/6), firm, moist, trace carbonate nodules, trace black staining, strong HCl reaction
69.4	11.0	5	7	7	14	SS-5			11.0ft: stiff
66.9	13.5	3	5	5	10	SS-6			13.5ft: brownish yellow (10YR6/6), mottled greenish gray (10Y6/1)
61.9	18.5	3	4	5	9	SS-7			
56.9	23.5	2	5	6	11	SS-8			56.9 — 23.5 LEAN CLAY (CL), greenish gray (10Y6/1), mottled brownish yellow (10YR6/6), stiff, moist, trace carbonate nodules, strong HCl reaction
51.9	28.5	6	8	13	21	SS-9			28.5ft: greenish gray (10Y6/1), very stiff, little sand, black and yellowish brown staining, no HCl reaction
46.9	33.5	4	7	9	16	SS-10			33.5ft: mottled with brownish yellow (10YR6/6), little sand, strong HCl reaction
41.9	38.5	5	8	13	21	SS-11			38.5ft: few sand
36.9	43.5	6	8	14	22	SS-12			36.9 — 43.5 FAT CLAY with sand (CH), yellowish brown (10YR5/8), mottled greenish gray (10Y6/1), very stiff, moist, little sand, strong HCl reaction
31.9	48.5	5	6	8	14	SS-13			48.5ft: stiff, few sand, weak HCl reaction
26.9	53.5	5	10	11	21	SS-14			53.5ft: very stiff

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-2281	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.4 ft (NAVD88)	NORTHING 13,412,909 US ft (NAD83)	EASTING 2,600,705 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 150.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/4/07	COMPLETED 12/5/07	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
24.3					Continued from previous page				
21.9	58.5								FAT CLAY with sand (CH), yellowish brown (10YR5/8), mottled greenish gray (10Y6/1), very stiff, moist, little sand, strong HCl reaction *(continued)*
16.9	63.5	7	12	14	26	SS-15			58.5ft: greenish gray (10Y6/1), little sand, black and yellowish brown staining, no HCl reaction
11.9	68.5	3	4	6	10	SS-16			63.5ft: mottled yellowish brown (10YR5/6), stiff, few sand, weak HCl reaction
6.9	73.5	4	6	8	14	SS-17			68.5ft: grayish brown (10YR5/2), black and yellowish brown staining, no HCl reaction
1.9	78.5	6	9	7	16	SS-18			73.5ft: greenish gray (10Y6/1), mottled yellowish brown (10YR5/6), very stiff, black staining
-3.1	83.5	4	5	8	13	SS-19			78.5ft: greenish gray (10Y6/1), stiff, black and yellowish brown staining
-8.1	88.5	7	6	8	14	SS-20			
-13.1	93.5	6	9	14	23	SS-21			88.5ft: very stiff, little sand
-18.1	98.5	14	15	40	55	SS-22A/B			-14.1 / 94.5 POORLY GRADED SAND with clay (SP-SC), greenish gray (10Y6/1), very dense, moist, few fines, trace carbonate nodules, strong HCl reaction
-28.1	108.5	41	50	50	100/1.0	SS-23			98.5ft: light yellowish brown (10YR6/4)
		25	50	46	96	SS-24			108.5ft: very pale brown (10YR7/3)

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-2281	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.4 ft (NAVD88)	NORTHING 13,412,909 US ft (NAD83)	EASTING 2,600,705 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 150.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/4/07	COMPLETED 12/5/07	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
-31.8					Continued from previous page				
									POORLY GRADED SAND with clay (SP-SC), greenish gray (10Y6/1), very dense, moist, few fines, trace carbonate nodules, strong HCl reaction *(continued)*
									-34.6 — 115.0
									FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, few sand, trace carbonate nodules, trace black and yellowish brown staining, no HCl reaction
-38.1	118.5	6	7	9	16	SS-25			
-48.1	128.5	8	10	16	26	SS-26			128.5ft: yellowish brown (10YR5/6), mottled greenish gray (10Y6/1), trace black staining
-58.1	138.5	7	11	19	30	SS-27			138.5ft: light gray (10YR7/2), mottled yellowish brown (10YR5/6)
									-65.6 — 146.0
									POORLY GRADED SAND with silt (SP-SM), light brownish gray (10YR6/2), very dense, moist, few fines, strong HCl reaction
-68.1	148.5	22	29	24	53	SS-28			
									-69.6 — 150.0
									Boring Terminated at Elevation -69.6 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 A. Osorio	
SITE DESCRIPTION Exelon COL Project	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2282A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,412,971 US ft (NAD83)	EASTING 2,600,758 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 1/5/08	COMPLETED 1/9/08	CASING DEPTH: 33.0 ft	BITS USED: 4" 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	3	4	4	8	SS-1			LEAN CLAY (CL), black (N/2.5), firm, moist, trace sand, some grass, no HCl reaction
76.8	3.5	2	2	3	5	SS-2			FAT CLAY (CH), gray (N/6), firm, trace carbonate nodules, strong HCl reaction, black stains
74.3	6.0	2	3	4	7	SS-3			6.0ft: yellowish brown stains
71.8	8.5	4	7	8	15	SS-4			LEAN CLAY (CL), gray (N/6), mottled brownish yellow (10YR6/8), stiff, moist, carbonate nodules, strong HCl reaction
69.3	11.0	4	4	6	10	SS-5			
66.8	13.5	3	5	7	12	SS-6			FAT CLAY (CH), brownish yellow (10YR6/8), mottled gray (N/6), stiff, moist, trace sand, carbonate nodules, strong HCl reaction, black stains
61.8	18.5	3	3	7	10	SS-7			
56.8	23.5	3	4	7	11	SS-8			23.5ft: yellowish brown (10YR5/8), weak HCl reaction
51.8	28.5	3	5	9	14	SS-9			28.5ft: greenish gray (10Y6/1), little sand, strong HCl reaction
46.8	33.5	13	16	18	34	SS-10			Clayey SAND (SC), greenish gray (10Y6/1), dense, moist, fine grained, little fines, strong HCl reaction on carbonate nodules, no reaction on clayey sand
41.8	38.5	5	7	10	17	SS-11			FAT CLAY (CH), greenish gray (10Y6/1), mottled yellowish brown (10YR 5/8), very stiff, moist, few sand, carbonate nodules, black stains, no HCl reaction
36.8	43.5	6	7	11	18	SS-12			43.5ft: some sand
31.8	48.5	9	15	23	38	SS-13			POORLY GRADED SAND with clay (SP-SC), yellowish gray (10Y6/1) mottled yellowish brown (10YR5/8), dense, moist, fine-grained sand, few fines, carbonate deposits
26.8	53.5	8	8	14	22	SS-14			FAT CLAY with sand (CH), yellowish brown (10YR5/8), mottled greenish gray (10Y6/1), very stiff, moist, little sand

48.3 — 32.0; 45.3 — 35.0; 32.3 — 48.0; 26.8 — 53.5

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-2282A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,412,971 US ft (NAD83)	EASTING 2,600,758 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 1/5/08	COMPLETED 1/9/08	CASING DEPTH: 33.0 ft	BITS USED: 4" 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								FAT CLAY with sand (CH), yellowish brown (10YR5/8), mottled greenish gray (10Y6/1), very stiff, moist, little sand *(continued)* — 21.8 / 58.5
16.8	63.5	7	17	22	39	SS-15			POORLY GRADED SAND with clay (SP-SC), greenish gray (10Y6/1), mottled yellowish brown (10YR5/8), dense, moist, fine grained, few fines, strong HCl reaction — 16.3 / 64.0
11.8	68.5	12	13	13	26	SS-16A/B			FAT CLAY (CH), greenish gray (10Y6/1), mottled yellowish brown (10YR5/6), very stiff, moist, trace sand, carbonate nodules, black stains, no HCl reaction
6.8	73.5	4	7	11	18	SS-17			68.5ft: mottled light gray (10YR7/1)
1.8	78.5	6	7	11	18	SS-18			73.5ft: yellowish brown (10YR5/8), mottled greenish gray (10Y6/1)
-3.2	83.5	5	13	16	29	SS-19			78.5ft: gray (10YR6/1)
-8.2	88.5	5	8	14	22	SS-20			
-13.2	93.5	9	16	25	41	SS-21			88.5ft: hard, sand seams present at 88.6' to 88.7' and 89.1' to 89.2' — -12.7 / 93.0
-18.2	98.5	18	24	32	56	SS-22			POORLY GRADED SAND (SP), gray (10YR6/1), very dense, moist, medium grained, trace fines, clay mixed with sand at 94' 94.0ft: yellowish brown (10YR5/8)
-28.2	108.5	30	26	38	64	SS-23A/B			-19.3 / 99.6 LEAN CLAY with sand (CL), gray (10YR6/1), hard, moist, little sand, carbonate nodules, weak HCl reaction on clay — -24.7 / 105.0 POORLY GRADED SAND (SP), gray (10YR6/1), very dense, moist, trace fines, carbonate nodules, strong HCl reaction
		37	46	50/0.4	96/0.9	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	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2282A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,412,971 US ft (NAD83)	EASTING 2,600,758 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 1/5/08	COMPLETED 1/9/08	CASING DEPTH: 33.0 ft	BITS USED: 4" 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				
									-33.7 FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, trace sand, carbonate nodules, yellowish brown stains, black nodules, strong HCl reaction — 114.0
-38.2	118.5	5	11	19	30	SS-25			
-48.2	128.5	9	11	15	26	SS-26			
									-55.7 POORLY GRADED SAND (SP), pale brown (10YR6/3), very dense, moist, trace fines, strong HCl reaction — 136.0
-58.2	138.5	27	26	33	59	SS-27			
									-63.7 FAT CLAY (CH), greenish gray (10YR6/1), hard, moist, trace sand, carbonate nodules, yellowish brown stains, black nodules, strong HCl reaction, sand content increasing below 149.5' — 144.0
-68.2	148.5	6	17	18	35	SS-28			
									-72.7 POORLY GRADED SAND (SP), very pale brown (10YR7/3), very dense, moist, medium grained, trace fines, carbonate nodules, strong HCl reaction — 153.0
-78.2	158.5	31	35	37	72	SS-29			

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-2282A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,412,971 US ft (NAD83)	EASTING 2,600,758 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 1/5/08	COMPLETED 1/9/08	CASING DEPTH: 33.0 ft	BITS USED: 4" 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
-88.0					Continued from previous page				
-88.2	168.5	11	25	29	54	SS-30			POORLY GRADED SAND (SP), very pale brown (10YR7/3), very dense, moist, medium grained, trace fines, carbonate nodules, strong HCl reaction *(continued)* 168.5ft: medium to coarse grained, intermixed pockets of sandy clay
-98.2	178.5	43	35	48	83	SS-31A/B			-96.7 177.0 FAT CLAY (CH), yellowish brown (10YR5/8), mottled greenish gray (10Y6/1), hard, moist, trace sand, carbonate nodules, strong HCl reaction -98.7 179.0 POORLY GRADED SAND (SP), gray (10YR6/1), very dense, moist, trace fines, carbonate nodules, yellowish brown stains, strong HCl reaction
-108.2	188.5	31	40	50/0.4	90/0.9	SS-32			
-118.2	198.5	14	46	50	96	SS-33			198.5ft: light gray (10YR7/2), fine to medium grained, pockets of clay at 199'
-138.2	218.5	22	25	32	57	SS-34			

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-2282A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.3 ft (NAVD88)	NORTHING 13,412,971 US ft (NAD83)	EASTING 2,600,758 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 400.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner/T. Ellerson	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 1/5/08	COMPLETED 1/9/08	CASING DEPTH: 33.0 ft	BITS USED: 4" 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
-144.1					Continued from previous page				
									POORLY GRADED SAND (SP), gray (10YR6/1), very dense, moist, trace fines, carbonate nodules, yellowish brown stains, strong HCl reaction *(continued)*
-158.2	238.5								-158.2 — 238.5
		15	29	34	63	SS-35			Clayey SAND (SC), light gray (10YR7/2), very dense, moist, few fines, carbonate nodules, strong HCl reaction
-178.2	258.5								
		106	250/0.4		356/0.9	SS-36			258.5ft: carbonate nodules SPT over-driven to collect sample
-198.2	278.5								277ft: softer drilling after 277' in depth -198.2 — 278.5
		29	40	32	72	SS-37			