MACTEC

BECHTEL PROJECT NO.: 25352	COUNTY Victoria	GEOLOGIST H. Lyatus	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2182A	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,220 US ft (NAD83)	EASTING 2,600,133 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 399.8 ft	DRILL MACHINE CME-75	DRILLER: T. Warren/N. Skogiund	HAMMER (ID) 140 lb. Auto (MEC 09)
DATE STARTED 11/28/07	COMPLETED 12/6/07	CASING DEPTH: N/A	BITS USED: 4 1/4" and 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
-313.0					Continued from previous page				
									FAT CLAY (CH) light gray (5Y7/2) mottled brown (10YR5/3), hard, moist, fine to medium grained sand, weak to strong HCl reaction *(continued)*
-318.6	398.3								
		21	25	31	56	SS-43			-320.1 399.8

Note: strata adapted from B-2182UD
Boring Terminated at Elevation -320.1 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 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
79.5					Ground Surface				79.5 0.0
69.5	10.0					UD-1			10.0ft: Sandy LEAN CLAY (CL), light gray (5Y7/1), mottled brownish yellow (10YR6/6), fine to coarse grained sand, trace carbonate nodules, strong HCl reaction - 1.7ft recovery
66.5	13.0					UD-2			13.0ft: no recovery
63.5	16.0					UD-3			16.0ft: FAT CLAY with sand (CH) light gray (5Y7/2), mottled brownish yellow (10YR6/6), trace carbonate nodules, strong HCl reaction - 1.7ft recovery
49.5	30.0					UD-4			30.0ft: no recovery
46.5	33.0					UD-5			33.0ft: FAT CLAY (CH), brownish yellow (10YR6/6), mottled light gray (5Y7/2), fine to coarse grained sand, fine gravel, trace carbonate nodules, strong HCl reaction - 1.7ft recovery
42.5	37.0					UD-6			37.0ft: Sandy LEAN CLAY (CL), light gray (5Y7/2), fine to coarse grained sand, fine gravel, trace carbonate nodules, strong HCl reaction - push refusal, 1.25ft recovery 38.5ft: bottom 0.7ft of tube smashed close

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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
23.4					Continued from previous page				
14.5	65.0					UD-7			65.0ft: Clayey SAND (SC), light olive gray (5Y6/2), fine to medium grained sand, weak HCl reaction - 1.6ft recovery
11.5	68.0					UD-8			66.7ft: bottom of tube has POORLY GRADED SAND (SP), pale brown (10YR6/3) 68.0ft: Clayey SAND (SC), very pale brown (10YR7/4), strong HCl reaction - 1.6ft recovery 69.7ft: bottom of tube is FAT CLAY with sand (CH), light gray (10YR7/2), strong HCl reaction, trace carbonate nodules
-5.5	85.0					UD-9			85.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), trace carbonate nodules, strong HCl reaction - 1.4ft recovery 86.7ft: bottom of tube bent, possibly by carbonate nodules
-10.5	90.0								90.0ft: FAT CLAY (CH), very pale brown (10YR7/3), fine grained sand - push refusal, 0.4ft recovery May have refused on a carbonate nodule, switched to pitcher sampler at 95.0ft
-11.0	90.5					UD-10 UD-11			90.5ft: Sandy LEAN CLAY (CL), light gray (5Y7/1), mottled brownish yellow (10YR6/6), fine to coarse grained sand, fine gravel, trace carbonate nodules, strong HCl reaction - 2.35ft recovery
-15.5	95.0					UD-12			95.0ft: LEAN CLAY with sand (CL), light gray (5Y7/1), mottled brownish yellow (10YR6/6), fine to coarse grained sand, strong HCl reaction - 1.6ft recovery 97.5ft: bottom of tube is POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR7/3), fine gravel, fine grained 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-32.7					Continued from previous page				
-40.5	120.0					UD-13			120.0ft: Clayey SAND (SC), light gray (10YR7/2), fine to medium grained sand, carbonate nodules - 1.7ft recovery
-43.5	123.0					UD-14			123.0ft: SILT (ML), light gray (10YR7/2), fine grained, no HCl reaction - 1.55ft recovery
-65.5	145.0					UD-15			145.0ft: SILT (ML), very pale brown (10YR7/3), mottled brownish gray (10YR6/6), fine to medium sand, carbonate nodules, strong HCl reaction - 1.3ft recovery 147.5ft: bottom of tube damaged and blocked with hard layer of cemented sand, 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-88.8					Continued from previous page				
-100.5	180.0					UD-16			180.0ft: Silty SAND (SM), very pale brown (10YR8/2), fine to coarse grained, little fines, carbonate nodules, strong HCl reaction - 1.35ft recovery
-135.5	215.0					UD-17			215.0ft: Sandy LEAN CLAY (CL), light gray (10YR7/2), fine to coarse grained sand, fine gravel, strong HCl reaction - 0.55ft recovery
-138.5	218.0					UD-18			218.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled brownish yellow (10YR6/6), trace carbonate nodules - 1.2ft 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-144.9					Continued from previous page				
-160.5	240.0					UD-19			240.0ft: Silty SAND (SM), light gray (10YR7/2), fine to coarse grained sand, few carbonate nodules, strong HCl reaction - 0.5ft recovery
-162.5	242.0					UD-20			240.5ft: bottom 0.1ft of tube is bent 242.0ft: Silty Clayey SAND (SC-SM), light gray (10YR7/2), fine to coarse grained sand, fine gravel, strong HCl reaction - 0.45ft recovery
-185.5	265.0					UD-21			265.0ft: no recovery
-190.5	270.0					UD-22			270.0ft: FAT CLAY with sand (CH), light gray (5Y7/2), fine to coarse grained sand, fine gravel, trace carbonate nodules, strong HCl reaction - 0.45ft recovery
-195.5	275.0					UD-23			275.0ft: no 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-201.0					Continued from previous page				
-220.5	300.0					UD-24			300.0ft: FAT CLAY (CH), light gray (5Y7/2), fine to medium grained sand, trace carbonate nodules, strong HCl reaction - push refusal, 1.3ft recovery 301.3ft: bottom 0.1ft of tube damaged
-223.5	303.0					UD-25			303.0ft: FAT CLAY (CH), light gray (5Y7/2), fine to medium grained sand, trace carbonate nodules, strong HCl reaction - push refusal, 1.2ft recovery
-240.5	320.0					UD-26			320.0ft: LEAN CLAY with sand (CL), pale brown (10YR6/3), fine to medium grained sand, trace carbonate nodules, strong HCl reaction - push refusal, 1.45ft recovery 321.3ft: bottom of tube damaged
-243.5	323.0					UD-27			323.0ft: FAT CLAY (CH), pale brown (10YR6/3), fine grained sand, trace carbonate nodules - 0.3ft recovery 324.7ft: bottom of tube is Clayey SAND (SC), light gray (10YR7/2), fine grained sand, strong HCl reaction
-250.5	330.0					UD-28			330.0ft: FAT CLAY (CH), pale brown (10YR8/3), fine to medium grained sand, strong HCl reaction - 2.0ft recovery 332.5ft: bottom 0.15ft of tube is bent
-253.5	333.0					UD-29			333.0ft: FAT CLAY (CH), pale brown (10YR6/3), mottled light gray (5Y7/2), trace carbonate nodules, strong HCl reaction - 1.7ft recovery 334.7ft: bottom of tube is 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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-257.1					Continued from previous page				
-260.5	340.0					UD-30			340.0ft: LEAN CLAY (CL), light gray (5Y7/2), fine to coarse grained sand, trace carbonate nodules, strong HCl reaction - push refusal, 1.05ft recovery
-263.5	343.0					UD-31			343.0ft: LEAN CLAY (CL), light gray (10YR7/2), fine to coarse grained sand, fine gravel, carbonate nodules, strong HCl reaction - 0.8ft recovery
-270.5	350.0					UD-32			350.0ft: POORLY GRADED SAND with clay (SP-SC), light gray (10YR7/2), strong HCl reaction - 2.6ft recovery 352.7ft: bottom of tube is POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), fine gained sand, strong HCl reaction
-300.5	380.0					UD-33			380.0ft: FAT CLAY (CH), light gray (5Y7/2), mottled light yellowish brown (10YR6/4), fine grained sand, trace carbonate nodules, strong HCl reaction - 1.7ft recovery
-303.5	383.0					UD-34			383.0ft: FAT CLAY (CH), light gray (5Y7/1), no sand, strong HCl reaction - 1.7ft recovery 384.7ft: bottom of tube is bent
-310.5	390.0					UD-35			390.0ft: FAT CLAY (CH), light gray (2.5Y7/2), fine sand, strong HCl reaction - 1.5ft recovery 391.5ft: Tube damaged and sample disturbed

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-2182UD	DRILL METHOD: Mud Rotary	SAMPLE METHODS: UD	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,207 US ft (NAD83)	EASTING 2,600,144 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 402.5 ft	DRILL MACHINE Failing 1500	DRILLER: A. Palacios/A. Toriba	HAMMER (ID) NA
DATE STARTED 12/11/07	COMPLETED 12/17/07	CASING DEPTH: N/A	BITS USED: 5" 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
-313.2					Continued from previous page				
-313.5	393.0					UD-36			393.0ft: FAT CLAY (CH), light gray (2.5Y7/2), fine grained sand, strong HCl reaction - 2.45ft recovery
-320.5	400.0					UD-37			398.0ft: LEAN CLAY with sand (CL), light gray (5Y7/2), mottled yellowish brown (10YR5/6), fine to medium grained sand, strong HCl reaction - 1.85ft recovery 400.0ft: LEAN CLAY with sand (CL), light gray (5Y7/2), mottled yellowish brown (10YR5/6), fine grained sand, strong HCl reaction
									-323.0 402.5 Boring Terminated at Elevation -323.0 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 L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2183	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,266 US ft (NAD83)	EASTING 2,600,166 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.3 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/10/07	COMPLETED 11/11/07	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
79.6					Ground Surface				79.6 — 0.0
79.6	0.0	1	2	3	5	SS-1			FAT CLAY (CH), very dark gray (10YR3/1), firm, moist, trace sand, organics
76.1	3.5	8	10	11	21	SS-2			3.5ft: dark gray (2.5Y4/1), very stiff, few sand, trace carbonate and manganese nodules
73.6	6.0	7	8	8	16	SS-3			6.0ft: light olive gray (5Y6/2), trace sand, weak HCl reaction
71.1	8.5	7	8	12	20	SS-4			8.5ft: few sand, trace orange staining
68.6	11.0	8	8	9	17	SS-5			
66.1	13.5	7	8	10	18	SS-6			13.5ft: greenish gray (10Y6/1), no HCl reaction
59.8	19.8	6	6	10	16	SS-7			19.8ft: light olive gray (5YR6/2), black and orange staining
54.8	24.8	5	5	8	13	SS-8			24.8ft: greenish gray (10Y6/1), mottled reddish yellow (7.5YR6/8), stiff, no sand, weak HCl reaction, trace black staining
49.8	29.8	6	7	10	17	SS-9			29.8ft: strong brown (7.5YR5/8), mottled light greenish gray (10Y7/1), very stiff
44.8	34.8	4	6	10	16	SS10			34.8ft: trace carbonate nodules
39.8	39.8	8	11	19	30	SS-11			39.8 — 39.8 LEAN CLAY (CL), brownish yellow (10YR6/8), mottled light greenish gray (10Y8/1), very stiff, few sand, trace carbonate nodules, strong HCl reaction
34.8	44.8	10	18	28	46	SS-12A/B			33.8 — 45.8 Clayey SAND (SC), yellowish brown (10YR5/8), dense, wet, few fines, fine grained sand, strong HCl reaction
29.8	49.8	9	12	13	25	SS-13			49.8ft: very firm
24.8	54.8	9	12	17	29	SS-14			24.8 — 54.8

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-2183	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,266 US ft (NAD83)	EASTING 2,600,166 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.3 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/10/07	COMPLETED 11/11/07	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
23.5					Continued from previous page				
20.1	59.5								Sandy FAT CLAY (CH), brownish yellow (10YR5/6), very stiff, moist, some sand, strong HCl reaction, trace carbonate nodules; interbedded with poorly graded sand with clay (SP-SC) from 54.8 to 65.2ft *(continued)*
		6	8	11	19	SS-15			59.8ft: strong brown (7.5YR5/8), mottled light greenish gray (10Y7/1)
14.8	64.8								
		8	8	10	18	SS-16A/B			65.2ft: light olive brown (2.5Y5/3), no HCl reaction
9.8	69.8								
		14	14	19	33	SS-17			69.8ft: light yellowish brown (2.5Y6/3), hard, some sand, trace carbonate gravel, weak HCl reaction
4.8	74.8								
		7	8	11	19	SS-18			74.8ft: light gray (2.5Y7/2), mottled olive yellow (2.5Y6/6), very stiff, little sand
-0.2	79.8								-0.2 — 79.8
		8	15	15	30	SS-19			Clayey SAND (SC), light gray (2.5Y7/2), very firm, wet, some fines, fine grained sand, no HCl reaction
-5.2	84.8								-5.2 — 84.8
		6	7	9	16	SS-20			FAT CLAY (CH), greenish gray (10Y6/1), mottled strong brown (7.5YR5/8), very stiff, moist, trace sand, no HCl reaction, trace carbonate nodules
-10.2	89.8								
		9	17	22	39	SS-21			89.8ft: light olive gray (5Y6/2), to white (5Y8/1), hard, little gravel
-15.2	94.8								-15.2 — 94.8
		7	9	11	20	SS-22			POORLY GRADED SAND with clay (SP-SC), pale brown (10YR6/3), firm, wet, fine to medium grained, few fines, weak HCl reaction, trace feldspar grains
-20.2	99.8								
		46	50/0.4		96/0.9	SS-23			99.8ft: very pale brown (10YR7/4), to light gray (2.5Y7/2), very dense, wet to moist, fine to coarse grained, weak to strong HCl reaction
-30.2	109.8								
		50/0.4			50/0.4	SS-24			109.8ft: light gray (2.5Y7/2)

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-2183	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.6 ft (NAVD88)	NORTHING 13,412,266 US ft (NAD83)	EASTING 2,600,166 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.3 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/10/07	COMPLETED 11/11/07	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
-32.6					Continued from previous page				
									POORLY GRADED SAND with clay (SP-SC), pale brown (10YR6/3), firm, wet, fine to medium grained, few fines, weak HCl reaction, trace feldspar grains *(continued)*
-40.2	119.8								-40.2 / 119.8
		8	8	9	17	SS-25			FAT CLAY (CH), light greenish gray (10Y7/1), mottled strong brown (7.5YR5/8), very stiff, moist, few sand, no HCl reaction, trace carbonate nodules, trace black staining
-50.2	129.8								
		8	17	18	35	SS-26			129.8ft: greenish gray (10Y6/1), hard, weak HCl reaction
-60.2	139.8								-60.2 / 139.8
		31	50	23	73	SS-27			LEAN CLAY with sand (CL), light yellowish brown (2.5Y6/3), hard, wet, weak HCl reaction, 2"-thick gravel layer at base of sand
-70.2	149.8								
		4	5	10	15	SS-28			149.8ft: stiff, weak HCl reaction, interbedded with poorly graded sand with clay
									-71.7 / 151.3 Boring Terminated at Elevation -71.7 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 L. Bisson	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777		GROUND WATER (ft)
BORING NO. B-2184	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,295 US ft (NAD83)	EASTING 2,600,305 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.2 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/12/07	COMPLETED 11/13/07	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
79.7					Ground Surface				79.7 — 0.0
79.7	0.0	4	5	5	10	SS-1			FAT CLAY (CH), dark olive brown (2.5Y3/3), stiff, moist, few sand, no HCl reaction, trace grass and manganese nodules
76.2	3.5	9	10	12	22	SS-2			3.5ft: dark gray (2.5Y4/1), very stiff, trace carbonate grains
73.7	6.0	3	5	7	12	SS-3			6.0ft: light olive gray (5Y6/2), stiff, weak HCl reaction
71.2	8.5	4	6	9	15	SS-4			8.5ft: mottled strong brown (7/5YR5/8)
68.7	11.0	6	9	11	20	SS-5			11.0ft: very stiff
66.2	13.5	5	6	8	14	SS-6			13.5ft: light brownish gray (2.5YR6/2), stiff
60.0	19.7	6	8	11	19	SS-7			19.7ft: light olive gray (5Y6/2), very stiff
55.0	24.7	5	4	6	10	SS-8			24.7ft: greenish gray (10YR6/1), mottled reddish yellow (7.5YR6/8), stiff
50.0	29.7	6	7	10	17	SS-9			29.7ft: reddish yellow (7.5YR6/8), mottled greenish gray (10Y6/1), very stiff, strong HCl reaction
45.0	34.7	5	5	7	12	SS-10			34.7ft: yellowish brown (10YR5/8), veined light greenish gray (10Y7/1), stiff, weak HCl reaction
40.0	39.7	5	6	9	15	SS-11			
35.0	44.7	7	9	15	24	SS-12			44.7ft: light olive brown (2.5YR5/4), very stiff, little sand, no HCl reaction
									32.7 — 47.0
30.0	49.7	10	9	13	22	SS-13			Clayey SAND (SC), light yellowish brown (2.5Y6/4), trace yellowish brown (10YR5/8), very firm, some clay, no HCl reaction
25.0	54.7	6	8	9	17	SS-14			54.7ft: light gray (2.5Y7/1), firm

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-2184	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,295 US ft (NAD83)	EASTING 2,600,305 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.2 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/12/07	COMPLETED 11/13/07	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
23.6					Continued from previous page				
									22.7 — 57.0 FAT CLAY (CH), light yellowish brown (2.5Y6/3), very stiff, moist, trace sand, strong HCl reaction, trace carbonate nodules
20.0	59.7	12	10	13	23	SS-15			
15.0	64.7	5	6	9	15	SS-16			64.7ft: olive gray (5Y5/2), stiff, weak HCl reaction, trace manganese nodules
									12.2 — 67.5 Clayey SAND (SC), light yellowish brown (2.5Y6/4), very firm, moist, some fines, no HCL reaction, with interbedded fat clay layers
10.0	69.7	10	11	15	26	SS-17			
									7.2 — 72.5 FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, trace sand, no HCl reaction, trace carbonate and manganese nodules
5.0	74.7	5	7	10	17	SS-18			
0.0	79.7	7	9	10	19	SS-19			
-5.0	84.7	5	7	8	15	SS-20			84.7ft: mottled strong brown (7.5YR5/8), stiff
-10.0	89.7	8	9	11	20	SS-21			89.7ft: very stiff, weak HCl reaction
-15.0	94.7	30	50/0.4		80/0.9	SS-22			94.7ft: light greenish gray (10Y8/1), hard, interbedded carbonate
									-18.3 — 98.0 WELL-GRADED SAND with clay (SW-SC), very pale brown (10YR7/4), to strong brown (7.5YR5/8), dense, wet, few fines, fine to coarse grained, weak HCl reaction
-20.0	99.7	28	20	26	46	SS-23A/B			-21.0 — 100.7 Sandy FAT CLAY (CH), light greenish gray (10Y7/1), hard, moist, some sand, weak HCl reaction
-30.0	109.7	9	12	13	25	SS-24			109.7ft: mottled strong brown (7.5YR5/8), very stiff, little sand, trace 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 L. Bisson
SITE DESCRIPTION Exelon COL Project (Victoria Site)		MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)
BORING NO. B-2184	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.7 ft (NAVD88)	NORTHING 13,412,295 US ft (NAD83)	EASTING 2,600,305 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.2 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/12/07	COMPLETED 11/13/07	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
-32.5					Continued from previous page				
									Sandy FAT CLAY (CH), light greenish gray (10Y7/1), hard, moist, some sand, weak HCl reaction *(continued)*
-40.0	119.7	9	10	14	24	SS-25			119.7ft: no HCl reaction
-50.0	129.7	20	18	22	40	SS-26			129.5ft: hard, few sand
									-58.3 138.0 POORLY GRADED SAND with clay (SP-SC), light yellowish brown (10YR6/4), very dense, wet, few fines, fine grained sand, strong HCl reaction
-60.0	139.7	38	41	50	91	SS-27			
-70.0	149.7	13	19	19	38	SS-28			149.7ft: pale brown (10YR6/3), dense
									-71.5 151.2 Boring Terminated at Elevation -71.5 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JPL Date 6-12-08

Checked By KAW Date 7.10.08

SHEET 1 OF 3

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-2185	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,321 US ft (NAD83)	EASTING 2,600,809 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.1 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/16/07	COMPLETED 11/16/07	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
79.5					Ground Surface				79.5 / 0.0
79.5	0.0	4	4	4	8	SS-1			FAT CLAY (CH), dark olive brown (2.5Y3/3), firm, moist, few sand, no HCl reaction, trace roots
76.0	3.5	9	9	11	20	SS-2			3.5ft: gray (2.5Y6/1), very stiff, weak HCl reaction, trace carbonate nodules
73.5	6.0	3	6	7	13	SS-3			6.0ft: stiff, strong HCl reaction,
71.0	8.5	8	13	15	28	SS-4			8.5ft: light brownish gray (2.5Y6/2), very stiff, trace manganese staining
68.5	11.0	6	11	13	24	SS-5			
66.0	13.5	7	9	11	20	SS-6			13.5ft: greenish gray (10Y6/1), no HCl reaction, trace manganese nodules
59.9	19.6	4	6	8	14	SS-7			19.6ft: light gray (10YR7/1), mottled yellowish brown (10YR5/8), stiff, weak HCl reaction
54.6	24.9	3	6	7	13	SS-8			24.6ft: light greenish gray (10YR7/1), no HCl reaction,
49.9	29.6	5	6	8	14	SS-9			29.6ft: greenish gray (10Y6/1), mottled strong brown (7.5YR5/8), weak HCl reaction
44.9	34.6	5	8	9	17	SS-10			44.9 / 34.6 — LEAN CLAY with sand (CL), strong brown (7.5YR5/8), mottled greenish gray (10Y6/1), very stiff, little sand, carbonate nodules, strong HCl reaction
39.9	39.6	4	7	9	16	SS-11			39.6ft: veins of light greenish gray (10Y7/1), few sands
34.9	44.6	7	10	9	19	SS-12			44.6ft: brownish yellow (10YR6/8), some sand
29.9	49.6	5	7	14	21	SS-13			32.5 / 47.0 — Clayey SAND (SC), brownish yellow (10YR6/8), very firm, moist, fine grained, some fines, strong HCl reaction
24.9	54.6	5	6	8	14	SS-14			24.9 / 54.6

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-2185	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,321 US ft (NAD83)	EASTING 2,600,809 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.1 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/16/07	COMPLETED 11/16/07	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
23.4					Continued from previous page				
									FAT CLAY (CH), yellowish brown (10YR5/8), veined with greenish gray (10YR6/1), stiff, moist, few sand, weak HCl reaction, trace carbonate nodules *(continued)*
19.9	59.6	6	9	9	18	SS-15			59.6ft: light olive gray (5Y6/2), very stiff, strong HCl reaction
14.9	64.6	8	10	13	23	SS-16			64.6ft: greenish gray (10Y6/1)
									11.5 — 68.0 POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), dense, wet, fine grained, few fines, no HCl reaction
9.6	69.9	7	12	20	32	SS-17			
									6.5 — 73.0 FAT CLAY (CH), greenish gray (10YR6/1), very stiff, moist, trace sands, no HCl reaction, trace carbonate nodules
4.9	74.6	5	7	14	21	SS-18			
-0.1	79.6	6	8	9	17	SS-19			
-5.1	84.6	6	6	9	15	SS-20			84.6ft: stiff, little sand, weak HCl reaction
-10.1	89.6	12	21	20	41	SS-21A/B			-10.1 — 89.6 WELL-GRADED SAND (SW), light gray (2.5Y7/2), dense, fine to coarse grained, few fines, weak HCl reaction 90.2 to 91.1ft: carbonate, white (N8), to brownish yellow (10YR6/8)
-15.1	94.6	31	50/0.4		81/0.9	SS-22			-15.1 — 94.6 POORLY GRADED SAND (SP), reddish brown (7.5YR6/8), very dense, wet, fine grained, few fines, weak HCl reaction
-20.1	99.6	22	22	23	45	SS-23			99.6ft: light gray (10YR7/2), dense, trace angular carbonate gravel
-30.1	109.6	6	10	12	22	SS-24			-30.1 — 109.6 FAT CLAY with sand (CH), greenish gray (10Y6/1), very stiff, moist, little sand, weak 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	
SITE DESCRIPTION Exelon COL Project (Victoria Site)	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2185	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 79.5 ft (NAVD88)	NORTHING 13,412,321 US ft (NAD83)	EASTING 2,600,809 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 151.1 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/16/07	COMPLETED 11/16/07	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
-32.7					Continued from previous page				
									FAT CLAY with sand (CH), greenish gray (10Y6/1), very stiff, moist, little sand, weak HCl reaction, trace carbonate nodules *(continued)*
-40.1	119.6	8	10	13	23	SS-25			119.6ft: trace sand, strong HCl reaction, trace angular carbonate gravel and nodules
-50.1	129.6	9	12	25	37	SS-26			129.6ft: light gray (2.5Y7/2), mottled yellowish brown (10YR5/8), hard
									-57.5 — 137.0
-60.1	139.6	11	20	23	43	SS-27			POORLY GRADED SAND with clay (SP-SC), brownish yellow (10YR6/6), to light brownish gray (10YR6/2 and 2.5Y6/2), dense, wet, few fines, strong HCl reaction, trace carbonate gravel
-70.1	149.6	18	22	26	48	SS-28			149.6ft: weak HCl reaction
									-71.6 — 151.1
									Boring Terminated at Elevation -71.6 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By JDZ 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	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2250	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 81.1 ft (NAVD88)	NORTHING 13,413,327 US ft (NAD83)	EASTING 2,600,234 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 11/27/07	COMPLETED 11/28/07	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
81.1					Ground Surface				
81.1	0.0	4	5	5	10	SS-1			FAT CLAY (CH), very dark grayish brown (10YR3/2), stiff, moist, trace sand, trace roots, no HCl reaction
77.6	3.5	10	9	9	18	SS-2			3.5ft: gray (5Y6/1), very stiff, few sand, strong HCl reaction, trace carbonate nodules
75.1	6.0	4	5	5	10	SS-3			6.0ft: light gray (2.5Y7/2), stiff, weak HCl reaction
72.6	8.5	5	8	9	17	SS-4			8.5ft: light olive gray (5Y6/2), very stiff, strong HCl reaction
70.1	11.0	4	9	12	21	SS-5			11.0ft: reddish yellow (7.5YR6/6), to light greenish gray (10Y7/1), trace sand, weak HCl reaction, trace black staining
67.6	13.5	3	8	8	16	SS-6			13.5ft: strong brown (7.5YR5/8), to light brownish gray (2.5Y6/2)
61.3	19.8	3	5	6	11	SS-7			19.8ft: brownish yellow (10YR6/6), to greenish gray (10Y6/1), stiff, trace to few sand, strong HCl reaction
56.3	24.8	2	8	11	19	SS-8			28.4ft: very stiff
51.3	29.8	6	10	12	22	SS-9			29.8ft: light yellowish brown (2.5Y6/3), some sand, no HCl reaction
46.3	34.8	6	8	12	20	SS-10			34.8ft: light brownish gray (2.5Y6/2), little sand
									43.1 — 38.0
41.3	39.8	8	10	13	23	SS-11			Clayey SAND (SC), light gray (2.5Y7/2), very firm, moist, fine grained, little fines, no HCl reaction
36.3	44.8	7	11	10	21	SS-12			44.8ft: light yellowish brown (2.5Y6/3 to 6/4), wet, few carbonate nodules
									31.3 — 49.8
31.3	49.8	6	12	10	22	SS-13			POORLY GRADED SAND with clay (SP-SC), brownish yellow (10YR6/6), to light gray (10YR7/2), very firm, wet, fine grained, few fines, no HCl reaction
26.3	54.8	14	10	18	28	SS-14			54.8ft: light brownish gray (2.5Y6/2), weak HCl

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	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2250	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 81.1 ft (NAVD88)	NORTHING 13,413,327 US ft (NAD83)	EASTING 2,600,234 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 11/27/07	COMPLETED 11/28/07	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
24.9					Continued from previous page				
21.3	59.8								reaction, interbedded layers of fat clay with sand POORLY GRADED SAND with clay (SP-SC), brownish yellow (10YR6/6), to light gray (10YR7/2), very firm, wet, fine grained, few fines, no HCl reaction *(continued)* — 21.3 / 59.8
16.3	64.8	8	10	12	22	SS-15			FAT CLAY (CH), light brownish gray (2.5Y6/2), very stiff, moist, few sand, weak HCl reaction
11.3	69.8	6	8	8	16	SS-16			64.8ft: light olive gray (5Y6/2)
6.3	74.8	9	17	13	30	SS-17			69.8ft: strong brown (7.5YR5/6), hard, strong HCl reaction, trace carbonate nodules
1.3	79.8	6	8	11	19	SS-18			74.8ft: light brownish gray (2.5Y6/2), little sand, no HCl reaction — 1.3 / 79.8
-3.8	84.8	16	17	13	30	SS-19			Clayey SAND (SC), light gray (2.5YR7/2), very firm, moist, fine grained, some fines, no HCl reaction, trace carbonate nodules — -3.8 / 84.8
-8.8	89.8	17	19	21	40	SS-20			POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR7/3), dense, wet, few fines, weak HCl reaction — -8.8 / 89.8
-13.8	94.8	17	24	27	51	SS-21			Clayey SAND (SC), light gray (2.5YR7/2), very dense, moist, fine grained, some fines, strong HCl reaction, trace carbonate nodules — -13.8 / 94.8
-18.8	99.8	39	50/0.2		89/0.7	SS-22			POORLY GRADED SAND with clay (SP-SC), pale brown (10YR6/3), very dense, wet, fine grained, little fines, weak HCl reaction, trace carbonate nodules
-28.8	109.8	29	50	50/0.3	100/0.8	SS-23			99.8ft: very pale brown (10YR7/4), , fine to coarse grained, few fines, no HCl reaction — -28.8 / 109.8
		35	50/0.4		85/0.9	SS-24			

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	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2250	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 81.1 ft (NAVD88)	NORTHING 13,413,327 US ft (NAD83)	EASTING 2,600,234 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 11/27/07	COMPLETED 11/28/07	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
-31.2					Continued from previous page				
									POORLY GRADED SAND (SP), light yellowish brown (10YR6/4), very dense, wet, fine to coarse grained, trace fines, weak HCl reaction, trace carbonate nodules *(continued)*
									-34.0 — 115.0
									FAT CLAY (CH), light greenish gray (10Y7/1), very stiff, moist, no sand, trace carbonate nodules, black streaks
-38.8	119.8	10	10	19	29	SS-25			
									-45.0 — 126.0
									POORLY GRADED SAND with clay (SP-SC), light brownish gray (2.5Y6/2), very dense, wet, fine grained, few fines, strong HCl reaction
-48.8	129.8	23	27	36	63	SS-26			
-58.8	139.8	26	38	45	83	SS-27			139.8ft: pale brown (10YR6/3)
									-66.0 — 147.0
									FAT CLAY with sand (CH), light olive gray (5Y6/2), mottled yellowish brown (10YR5/6), very stiff, moist, little sand, strong HCl reaction, trace carbonate nodules
-68.8	149.8	10	10	16	26	SS-28A/B			
									-69.8 — 150.8
									-70.3 — 151.3
									POORLY GRADED SAND with clay (SP-SC), pale brown (10YR6/3), very firm, wet, fine grained, few fines, no HCl reaction
									Boring Terminated at Elevation -70.3 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	MACTEC PROJECT NO.: 6468-07-1777	GROUND WATER (ft)	
BORING NO. B-2251	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.8 ft (NAVD88)	NORTHING 13,413,405 US ft (NAD83)	EASTING 2,600,268 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 210.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/3/07	COMPLETED 12/4/07	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
80.8					Ground Surface				
80.8	0.0	3	4	7	11	SS-1			Sandy LEAN CLAY (CL), black (2.5/N), stiff, moist, fine to medium grained sand, no HCl reaction, organics
77.3	3.5	2	3	5	8	SS-2			3.5ft: dark gray (4/N), firm, weak HCl reaction, trace carbonate nodules
74.8	6.0	2	3	5	8	SS-3			LEAN CLAY with sand (CL), greenish gray (10Y5/1), firm, moist, black and yellowish brown stains
72.3	8.5	4	7	10	17	SS-4			Silty, clayey SAND (SC-SM), yellowish brown (10YR5/4, 10YR5/6 and 10YR5/8), mottled greenish gray (10YR5/1), firm, moist, fine to medium grained sand, strong to weak HCl reaction
69.8	11.0	3	5	4	9	SS-5			LEAN CLAY with sand (CL), yellowish brown (10YR5/4), stiff, moist, fine to medium grained sand, organics
67.3	13.5	5	8	9	17	SS-6			LEAN CLAY (CL), yellowish brown (10YR5/4), very stiff, moist, fine to medium grained sand
62.3	18.5	4	4	5	9	SS-7			FAT CLAY (CH), yellowish brown (10YR5/4), stiff, moist, fine to medium grained sand, organics
57.3	23.5	3	6	7	13	SS-8			FAT CLAY with sand (CH), yellowish brown (10YR5/4), stiff, moist fine to medium grained sand
52.3	28.5	2	4	4	8	SS-9			LEAN CLAY with sand (CL), light greenish gray (10Y7/1), firm, moist, fine to medium grained sand, no to weak HCl reaction, organics
47.3	33.5	5	8	12	20	SS-10			Clayey SAND (SC), light greenish gray (10Y7/1), firm, moist, fine to medium grained sand
42.3	38.5	6	7	11	18	SS-11			38.5ft: organics
37.3	43.5	7	7	8	15	SS-12			43.5ft: fine to coarse grained sand, fine gravel (visual)
32.3	48.5	5	5	4	9	SS-13			48.5ft: loose, fine to medium grained sand (visual)
27.3	53.5	5	7	12	19	SS-14			53.5ft: firm (visual)

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-2251	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.8 ft (NAVD88)	NORTHING 13,413,405 US ft (NAD83)	EASTING 2,600,268 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 210.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/3/07	COMPLETED 12/4/07	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
24.7					Continued from previous page				
22.3	58.5								Clayey SAND (SC), light greenish gray (10Y7/1), firm, moist, fine to medium grained sand *(continued)*
		20	25	28	53	SS-15			Sandy LEAN CLAY (CL), light greenish gray (10Y7/1), hard, moist, fine to medium grained sand, no to weak HCl reaction
17.3	63.5								
		17	8	9	17	SS-16			FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, fine to medium sand, carbonate nodules, no HCl reaction
12.3	68.5								
		3	4	5	9	SS-17			68.5ft: gray (10YR6/1), stiff, yellowish brown stains, organics
7.3	73.5								
		4	9	13	22	SS-18			Sandy LEAN CLAY (CL), gray (10YR6/1), very stiff, moist, fine to medium grained sand, no to weak HCl reaction
2.3	78.5								
		5	5	10	15	SS-19			78.5ft: stiff, organics
-2.7	83.5								
		8	11	12	23	SS-20			Clayey SAND (SC), light brownish gray (10YR6/2), very firm, moist, fine to coarse grained sand, carbonate nodules, no HCl reaction (visual)
-7.7	88.5								
		25	35	50/0.5	85/1.0	SS-21			88.5ft: very dense, strong HCl reaction (visual)
-12.7	93.5								
		40	50/0.4		90/0.9	SS-22			93.5ft: fine gravel (visual)
-17.7	98.5								
		45	50/0.5		95/1.0	SS-23			98.5ft: 1.4'-thick interbedded layer of lean clay, light greenish gray (10Y7/1)
-27.7	108.5								
		27	43	32	75	SS-24			108.5ft: light brownish gray (10YR6/2) (visual)

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-2251	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.8 ft (NAVD88)	NORTHING 13,413,405 US ft (NAD83)	EASTING 2,600,268 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 210.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/3/07	COMPLETED 12/4/07	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
-31.4					Continued from previous page				
									-32.7 / 113.5 FAT CLAY (CH), greenish gray (10Y6/1), very stiff, moist, fine to coarse grained sand, carbonate nodules, black and yellowish brown stains, no HCl reaction
-37.7	118.5	5	6	13	19	SS-25			
-46.7	127.5								Clayey SAND (SC), gray (10YR6/1), very dense, moist, fine grained, strong HCl reaction (visual)
-47.7	128.5	27	25	50/0.4	75/0.8	SS-26			
-57.7	138.5	18	50	43	93	SS-27			138.5ft: very pale brown (10YR8/2), fine to medium grained sand, strong HCl reaction (visual)
-64.2	145.0								Sandy LEAN CLAY (CL), very pale brown (10YR7/4), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction
-67.7	148.5	4	9	10	19	SS-28			
-77.7	158.5								-77.7 / 158.5 POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR8/2), very dense, fine to coarse grained sand, fine gravel (visual)
		18	42	50/0.4	92/0.8	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-2251	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.8 ft (NAVD88)	NORTHING 13,413,405 US ft (NAD83)	EASTING 2,600,268 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 210.0 ft	DRILL MACHINE CME-75	DRILLER: D. Nalls/B. Turner	HAMMER (ID) 140 lb. Auto (MEC 11)
DATE STARTED 12/3/07	COMPLETED 12/4/07	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
-87.5					Continued from previous page				
-87.7	168.5	38	50/0.5		48/1.0	SS-30			POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR8/2), very dense, fine to coarse grained sand, fine gravel (visual) *(continued)*
-97.7	178.5	27	27	34	61	SS-31			178ft: fine to coarse grained sand, fine gravel, carbonate nodules (visual)
-107.7	188.5	27	36	50/0.4	86/0.9	SS-32			-107.7 — 188.5 Clayey SAND (SC), very pale brown (10YR7/3), very dense, fine to medium grained sand, carbonate nodules, strong HCl reaction (visual)
-117.7	198.5	54	50/0.2		104/0.7	SS-33			
-127.7	208.5	25	26	29	55	SS-34			-127.7 — 208.5 Silty SAND (SM), very pale brown (10YR7/3), very dense, fine to coarse grained sand, fine gravel (visual) -129.2 — 210.0

Boring Terminated at Elevation -129.2 ft

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

MACTEC

GEOTECHNICAL BORING LOG

Prepared By PJH Date 6-12-08

Checked By KAW Date 7-10-08

SHEET 1 OF 3

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-2252	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,478 US ft (NAD83)	EASTING 2,600,361 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 153.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/7/07	COMPLETED 11/8/07	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	4	3	3	6	SS-1			Silty SAND (SM), grayish brown (10YR5/2), loose, moist, some fines, trace organics
77.2	3.5	10	17	13	30	SS-2A/B			FAT CLAY with sand (CH), dark gray (5YR4/1), very stiff, moist, little sand, trace carbonate nodules
74.7	6.0	4	7	13	20	SS-3			4.0-5.0ft: gray (7.5YR5/1), very stiff, dry, some sand, trace carbonate nodules
72.2	8.5	5	11	13	24	SS-4			6.0ft: light brownish gray (2.5YR6/2), very stiff, moist, little sand, trace carbonate and manganese nodules 8.5ft: mottled light brownish gray (2.5YR6/2), to olive yellow (2.5YR6/6), wet to moist, few sand
69.7	11.0	7	14	17	31	SS-5			LEAN CLAY (CL), pale yellow (2.5Y7/3), mottled olive yellow (2.5Y6/8), hard, moist, few fine sand, trace carbonate nodules
67.2	13.5	5	7	10	17	SS-6			FAT CLAY (CH), reddish yellow (7.5YR6/6), mottled light greenish gray (5GY7/1), very stiff, moist, few sand, trace black staining, trace carbonate nodules
61.0	19.7	4	5	6	11	SS-7			19.7ft: stiff
56.0	24.7	4	11	13	24	SS-8			POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/2), very firm, wet, fine grained, no HCl reaction
51.0	29.7	3	5	7	12	SS-9			Sandy FAT CLAY (CH), color not determined, stiff, moist, some fine sand
46.0	34.7	9	11	17	28	SS-10			LEAN CLAY with sand (CL), light greenish gray (10Y7/1), mottled strong brown (7.5YR5/8), very stiff, wet, some sand
41.0	39.7	6	8	9	17	SS-11			39.7ft: gray (10Y6/1), moist, trace black staining, few sand
36.0	44.7	6	12	14	26	SS-12			Clayey SAND (SC), light greenish gray (10Y7/1), very firm, moist, fine grained, some fines, trace carbonate nodules
31.0	49.7	7	10	9	19	SS-13			POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/2), firm, wet, fine grained, few fines, trace black staining
26.0	54.7	6	12	22	34	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-2252	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,478 US ft (NAD83)	EASTING 2,600,361 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 153.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/7/07	COMPLETED 11/8/07	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				
									Sandy LEAN CLAY (CL), light brownish gray (2.5YR6/2), hard, wet, some fine sand, trace iron staining *(continued)*
21.0	59.7	50/0.2			50/0.2	SS-15			59.7ft: no recovery
16.0	64.7	5	5	9	14	SS-16			16.0 — 64.7 FAT CLAY (CH), greenish gray (10Y6/1), stiff, moist, trace iron staining, trace carbonate nodules
11.0	69.7	5	6	8	14	SS-17			
6.0	74.7	4	5	8	13	SS-18			74.7ft: firm, little sand
1.0	79.7	8	9	11	20	SS-19			79.7ft: very stiff, some sand
-4.0	84.7	7	17	17	34	SS-20			-4.0 — 84.7 POORLY GRADED SAND (SP), light brownish gray (10YR6/2), dense, wet, trace fines, trace carbonate nodules
-9.1	89.8	30	35	46	81	SS-21			-9.1 — 89.8 POORLY GRADED SAND with silt (SP-SM), pale brown (10YR6/3), very dense, wet, few fines, trace carbonate nodules, trace black speckles
-14.1	94.8	15	35	50	85	SS-22A/B			-14.1 — 94.8 -14.9 — 95.6 FAT CLAY (CH), light greenish gray (10YR7/1), hard, moist, trace carbonate nodules, few sand; POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/2), very dense, wet, few fines, trace carbonate nodules and black specks
-19.1	99.8	22	48	60/0.1	108/0.6	SS-23			-19.1 — 99.8 POORLY GRADED SAND with clay (SP-SC), very pale brown (10YR8/3), very dense, wet, few fines, increasing clay with depth, trace feldspar and carbonate nodules
-29.1	109.8	30	35	21	56	SS-24			-29.1 — 109.8 POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, wet, trace fines, trace feldspar grains, trace black grains

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-2252	DRILL METHOD: Mud Rotary	SAMPLE METHODS: SPT	0 HR. ND
GROUND SURFACE ELEV. 80.7 ft (NAVD88)	NORTHING 13,413,478 US ft (NAD83)	EASTING 2,600,361 US ft (NAD83)	24 HR. ND
TOTAL DEPTH 153.4 ft	DRILL MACHINE CME-550	DRILLER: L. Carter/D. Juhan	HAMMER (ID) 140 lb. Auto (MEC 03)
DATE STARTED 11/7/07	COMPLETED 11/8/07	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), very pale brown (10YR7/4), very dense, wet, trace fines, trace feldspar grains, trace black grains *(continued)*
-39.1	119.8								-39.1 119.8
		10	8	15	23	SS-25			FAT CLAY (CH), light gray (2.5Y7/2), very stiff, moist, trace carbonate nodules
-49.1	129.8								-49.1 129.8
		11	17	22	39	SS-26			POORLY GRADED SAND with silt (SP-SM), light gray (10YR7/2), dense, wet, few fines, weak HCl reaction, trace carbonate nodules
-59.1	139.8								
		50/0.5			50/0.5	SS-27			139.8ft: no recovery, very dense
-64.1	144.8								-64.1 144.8
		5	7	9	16	SS-28			FAT CLAY (CH), light yellowish brown (10YR6/4), very stiff, moist, trace carbonate and manganese nodules
-69.1	149.8								
		5	7	9	16	SS-29			149.8ft: no recovery due to broken catcher. Driller assumes clay as bit was plugged up.
-71.2	151.9								
		5	7	12	19	SS30			151.9ft: weak HCl reaction
									-72.7 153.4
									Boring Terminated at Elevation -72.7 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 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
80.9					Ground Surface				80.9 / 0.0
80.9	0.0	3	3	4	7	SS-1			LEAN CLAY with sand (CL), dark gray (2.5Y4/1), firm, moist, little sands, organics
77.4	3.5	3	3	4	7	SS-2			3.5ft: gray (2.5Y5/1), trace roots, strong HCl reaction, carbonate nodules
74.9	6.0	4	5	7	12	SS-3			6.0ft: light gray (5Y7/2), stiff, little sand, carbonate nodules
72.4	8.5	4	8	8	16	SS-4			8.5ft: light yellowish brown (10YR6/4), very stiff, trace lignite
69.9	11.0	9	12	14	26	SS-5			11.0ft: mottled, thinly laminated
67.4	13.5	7	7	7	14	SS-6			13.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10Y7/1), stiff
62.4	18.5	4	4	7	11	SS-7			62.4 / 18.5 — FAT CLAY (CH), brownish yellow (10YR6/6), mottled pale yellow (5Y8/2), stiff, moist, few sands, strong HCl reaction, trace organics
57.4	23.5	4	5	8	13	SS-8			23.5ft: light yellowish brown (10YR6/4),
52.4	28.5	5	7	10	17	SS-9			28.5ft: very stiff, little sand, pale brown (10YR7/3)
47.4	33.5	6	8	10	18	SS-10			33.5ft: brownish yellow (10YR6/6),
42.4	38.5	4	5	8	13	SS-11			38.5ft: stiff, organics
37.4	43.5	6	8	10	18	SS-12			43.5ft: very pale brown (10YR 7/3), very stiff, some sand, carbonate nodules
32.4	48.5	9	15	10	25	SS-13			48.5ft: iron staining, 0.2'-thick lense of coarse sand and gravel
27.4	53.5	7	10	12	22	SS-14			27.4 / 53.5 — Clayey SAND (SC), light gray (10YR7/2), very firm, moist, some fines, weak HCl reaction

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