MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/12-14/08

Project Name Exelon COL
Reviewed By [illegible]
Review Date 1/26/09

Boring No.	B-2169	B-2169	B-2169	B-2169
Sample No.	SS-35	SS-39	SS-43	SS-51
Sample Depth, Ft.	213.5 - 215	248.5 - 250	288.5 - 290	368.5 - 370.0
A) Tare No.	84	C-21	Q	CD
B) Tare Weight, grams	6.60	9.30	6.80	6.60
C) Wet Soil + Tare, grams	96.70	131.90	146.60	102.00
D) Dry Soil + Tare, grams	79.09	114.50	121.32	84.14
E) Weight of Dry Soil, grams [D - B]	72.49	105.20	114.52	77.54
F) Weight of Moisture, grams [C - D]	17.61	17.40	25.28	17.86
G) Moisture Content, % [F * 100 / E]	24.3	16.5	22.1	23.0
(based on oven-dried weight)				
H) Tare No.	N	S	N	S
I) Weight of Tare, grams	55.56	52.60	55.56	52.60
J) Weight of Over-Dried Soil + Tare, grams	127.99	157.44	120.75	130.73
K) Weight of Oven- Dried Soil, grams [J - I]	72.43	104.84	65.19	78.13
L) Weight of Ignited Soil + Tare, grams	126.86	155.81	167.62	128.96
M) Ash, grams [L - I]	71.30	103.21	112.06	76.36
N) Ash Content, % [M *100 / K]	98.4	98.4	97.3	97.7
O) Organic Matter, % [100 - N]	**1.6**	**1.6**	**2.7**	**2.3**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/16-26/08

Project Name Exelon COL
Reviewed By DSC
Review Date 3-13-08

Boring No.	B-2170R	B-2170R	B-2170R	B-2170R
Sample No.	SS-2	SS-3	SS-5	SS-7
Sample Depth, Ft.	3.5 - 5	6.0 - 7.5	11 -12.5	18.5 - 20.0
A) Tare No.	JP-22	516	302	V
B) Tare Weight, grams	6.80	9.50	9.40	6.80
C) Wet Soil + Tare, grams	201.50	141.00	102.60	175.50
D) Dry Soil + Tare, grams	165.05	120.12	92.34	153.40
E) Weight of Dry Soil, grams [D - B]	158.25	110.62	82.94	146.60
F) Weight of Moisture, grams [C - D]	36.45	20.88	10.26	22.10
G) Moisture Content, % [F * 100 / E]	23.0	18.9	12.4	15.1
(based on oven-dried weight)				
H) Tare No.	H	L	G	R
I) Weight of Tare, grams	52.07	51.51	53.05	51.50
J) Weight of Over-Dried Soil + Tare, grams	196.78	161.30	170.13	157.63
K) Weight of Oven- Dried Soil, grams [J - I]	144.71	109.79	117.08	106.13
L) Weight of Ignited Soil + Tare, grams	188.77	155.49	164.16	152.43
M) Ash, grams [L - I]	136.70	103.98	111.11	100.93
N) Ash Content, % [M *100 / K]	94.5	94.7	94.9	95.1
O) Organic Matter, % [100 - N]	**5.5**	**5.3**	**5.1**	**4.9**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/16-26/08

Project Name Exelon COL
Reviewed By DSC
Review Date 3-13-08

Boring No.	B-2170R	B-2170R	B-2170R	B-2170R
Sample No.	SS-9	SS-11	SS-15	SS-18
Sample Depth, Ft.	28.5-30.0	38.5 - 40.0	58.5 - 60	73.5 - 75.0
A) Tare No.	21	V	J	T
B) Tare Weight, grams	6.70	6.81	9.10	6.75
C) Wet Soil + Tare, grams	121.67	197.66	182.98	187.81
D) Dry Soil + Tare, grams	98.36	163.67	151.30	158.85
E) Weight of Dry Soil, grams [D - B]	91.66	156.86	142.20	152.10
F) Weight of Moisture, grams [C - D]	23.31	33.99	31.68	28.96
G) Moisture Content, % [F * 100 / E]	25.4	21.7	22.3	19.0
(based on oven-dried weight)				
H) Tare No.	Q	S	Q	9
I) Weight of Tare, grams	52.05	53.42	52.05	52.59
J) Weight of Over-Dried Soil + Tare, grams	119.32	113.65	144.20	171.61
K) Weight of Oven- Dried Soil, grams [J - I]	67.27	60.23	92.15	119.02
L) Weight of Ignited Soil + Tare, grams	115.96	110.82	140.39	166.72
M) Ash, grams [L - I]	63.91	57.40	88.34	114.13
N) Ash Content, % [M *100 / K]	95.0	95.3	95.9	95.9
O) Organic Matter, % [100 - N]	**5.0**	**4.7**	**4.1**	**4.1**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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Project No. 6468071777
Tested By CS
Test Date 1/16-26/08

Project Name Exelon COL
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Review Date 3-13-08

Boring No.	B-2170R	B-2170R	B-2170R	B-2170R
Sample No.	SS-26	SS-27	SS-34	SS-36
Sample Depth, Ft.	123.5 -125.0	133.5 - 135.0	208.5-210.0	248.5 - 250.0
A) Tare No.	F-1	JP-5	81	92
B) Tare Weight, grams	9.20	6.84	6.70	13.80
C) Wet Soil + Tare, grams	163.56	145.28	166.20	220.70
D) Dry Soil + Tare, grams	131.20	119.50	136.90	194.51
E) Weight of Dry Soil, grams [D - B]	122.00	112.66	130.20	180.71
F) Weight of Moisture, grams [C - D]	32.36	25.78	29.30	26.19
G) Moisture Content, % [F * 100 / E]	26.5	22.9	22.5	14.5
(based on oven-dried weight)				
H) Tare No.	Q	S	H	Q
I) Weight of Tare, grams	51.14	53.43	52.07	51.14
J) Weight of Over-Dried Soil + Tare, grams	103.14	164.22	181.97	133.12
K) Weight of Oven- Dried Soil, grams [J - I]	52.00	110.79	129.90	81.98
L) Weight of Ignited Soil + Tare, grams	101.11	159.79	177.10	130.25
M) Ash, grams [L - I]	49.97	106.36	125.03	79.11
N) Ash Content, % [M *100 / K]	96.1	96.0	96.3	96.5
O) Organic Matter, % [100 - N]	**3.9**	**4.0**	**3.7**	**3.5**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/26-28/08

Project Name Exelon COL
Reviewed By DSC
Review Date 3-13-08

Boring No.	B-2182A	B-2182A	B-2182A	B-2182A
Sample No.	SS-1	SS-3	SS-7	SS-9
Sample Depth, Ft.	0 - 1.5	6 - 7.5	18.5 - 20	28.5 - 30
A) Tare No.	76	L	75	7
B) Tare Weight, grams	6.60	7.10	6.60	9.20
C) Wet Soil + Tare, grams	124.10	185.10	161.30	121.40
D) Dry Soil + Tare, grams	105.97	159.08	130.35	96.50
E) Weight of Dry Soil, grams [D - B]	99.37	151.98	123.75	87.30
F) Weight of Moisture, grams [C - D]	18.13	26.02	30.95	24.90
G) Moisture Content, % [F * 100 / E]	18.2	17.1	25.0	28.5
(based on oven-dried weight)				
H) Tare No.	Q	9	S	N
I) Weight of Tare, grams	51.14	52.57	53.42	55.57
J) Weight of Over-Dried Soil + Tare, grams	114.90	122.69	109.78	163.13
K) Weight of Oven- Dried Soil, grams [J - I]	63.76	70.12	56.36	107.56
L) Weight of Ignited Soil + Tare, grams	113.40	121.64	108.80	161.13
M) Ash, grams [L - I]	62.26	69.07	55.38	105.56
N) Ash Content, % [M *100 / K]	97.6	98.5	98.3	98.1
O) Organic Matter, % [100 - N]	**2.4**	**1.5**	**1.7**	**1.9**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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(ASTM D2974-07)

Project No. 6468071777
Tested By CS
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Project Name Exelon COL
Reviewed By DSC
Review Date 3-13-08

Boring No.	B-2182A	B-2182A	B-2182A	B-2182A
Sample No.	SS-16	SS-21	SS-29	SS-36
Sample Depth, Ft.	63.5 - 65.0	88.5 - 90.0	158.3 - 159.8	258.3 - 259.8
A) Tare No.	B-1	Q		
B) Tare Weight, grams	9.30	6.82	Moisture Content	Moisture Content
C) Wet Soil + Tare, grams	190.30	148.63	not Assigned	not Assigned
D) Dry Soil + Tare, grams	153.35	116.14		
E) Weight of Dry Soil, grams [D - B]	144.05	109.32		
F) Weight of Moisture, grams [C - D]	36.95	32.49		
G) Moisture Content, % [F * 100 / E]	25.7	29.7		
(based on oven-dried weight)				
H) Tare No.	R	Q	9	L
I) Weight of Tare, grams	51.53	51.14	52.57	51.50
J) Weight of Over-Dried Soil + Tare, grams	151.67	153.14	122.69	131.64
K) Weight of Oven- Dried Soil, grams [J - I]	100.14	102.00	70.12	80.14
L) Weight of Ignited Soil + Tare, grams	150.07	151.10	122.55	130.44
M) Ash, grams [L - I]	98.54	99.96	69.98	78.94
N) Ash Content, % [M *100 / K]	98.4	98.0	99.8	98.5
O) Organic Matter, % [100 - N]	**1.6**	**2.0**	**0.2**	**1.5**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777 **Project Name** Exelon COL

Tested By CS **Reviewed By** DSC

Test Date 1/26-28/08 **Review Date** 3-13-08

Boring No.	B-2182A			
Sample No.	SS-42			
Sample Depth, Ft.	378.9 - 380.4			
A) Tare No.	RR			
B) Tare Weight, grams	6.80			
C) Wet Soil + Tare, grams	130.40			
D) Dry Soil + Tare, grams	99.37			
E) Weight of Dry Soil, grams [D - B]	92.57			
F) Weight of Moisture, grams [C - D]	31.03			
G) Moisture Content, % [F * 100 / E]	33.5			
(based on oven-dried weight)				
H) Tare No.	6			
I) Weight of Tare, grams	53.07			
J) Weight of Over-Dried Soil + Tare, grams	121.96			
K) Weight of Oven- Dried Soil, grams [J - I]	68.89			
L) Weight of Ignited Soil + Tare, grams	120.38			
M) Ash, grams [L - I]	67.31			
N) Ash Content, % [M *100 / K]	97.7			
O) Organic Matter, % [100 - N]	**2.3**			

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17

scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 12/24/2007

Project Name Exelon COL
Reviewed By [illegible]
Review Date 1/26/08
KAW 1/26/08

Boring No.	B-2251	B-2251	B-2251	B-2251
Sample No.	SS-1	SS-3	SS-5	SS-7
Sample Depth, Ft.	0 - 1.5	6 - 7	11 - 12.5	18.5 - 20
A) Tare No.	UA	JP-7	513	JJ
B) Tare Weight, grams	8.25	6.76	9.23	9.09
C) Wet Soil + Tare, grams	138.53	161.78	154.28	125.24
D) Dry Soil + Tare, grams	116.98	139.95	129.46	97.95
E) Weight of Dry Soil, grams [D - B]	108.73	133.19	120.23	88.86
F) Weight of Moisture, grams [C - D]	21.55	21.83	24.82	27.29
G) Moisture Content, % [F * 100 / E]	19.8	16.4	20.6	30.7
(based on oven-dried weight)				
H) Tare No.	A	S	S	A
I) Weight of Tare, grams	55.49	52.60	52.60	55.49
J) Weight of Over-Dried Soil + Tare, grams	116.47	187.82	175.61	99.02
K) Weight of Oven- Dried Soil, grams [J - I]	60.98	135.22	123.01	43.53
L) Weight of Ignited Soil + Tare, grams	113.16	183.36	171.40	95.64
M) Ash, grams [L - I]	57.67	130.76	118.80	40.15
N) Ash Content, % [M *100 / K]	94.6	96.7	96.6	92.2
O) Organic Matter, % [100 - N]	**5.4**	**3.3**	**3.4**	**7.8**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 12/24/2007

Project Name Exelon COL
Reviewed By
Review Date 1·26·08

Boring No.	B-2251	B-2251	B-2251	B-2251
Sample No.	SS-9	SS-11	SS-17	SS-19
Sample Depth, Ft.	28.5 - 30	38.5 - 40	68.5 - 70	78.5 - 80
A) Tare No.	305	Orange	JP-22	2P-5
B) Tare Weight, grams	9.47	9.18	6.80	6.90
C) Wet Soil + Tare, grams	119.89	149.29	94.06	169.80
D) Dry Soil + Tare, grams	102.00	128.20	72.12	144.60
E) Weight of Dry Soil, grams [D - B]	92.53	119.02	65.32	137.70
F) Weight of Moisture, grams [C - D]	17.89	21.09	21.94	25.20
G) Moisture Content, % [F * 100 / E]	19.3	17.7	33.6	18.3
(based on oven-dried weight)				
H) Tare No.	S	A	R	R
I) Weight of Tare, grams	52.69	55.49	52.26	52.26
J) Weight of Over-Dried Soil + Tare, grams	148.59	127.25	117.56	144.32
K) Weight of Oven- Dried Soil, grams [J - I]	95.90	71.76	65.30	92.06
L) Weight of Ignited Soil + Tare, grams	144.35	124.59	115.56	140.07
M) Ash, grams [L - I]	91.66	69.10	63.30	87.81
N) Ash Content, % [M *100 / K]	95.6	96.3	96.9	95.4
O) Organic Matter, % [100 - N]	**4.4**	**3.7**	**3.1**	**4.6**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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Project Name Exelon COL
Reviewed By [illegible]
Review Date 1-26-08

Boring No.	B-2251	B-2251	B-2251	
Sample No.	SS-23	SS-25	SS-28	
Sample Depth, Ft.	98.5 - 100	118.5 - 120	148.5 - 150	
A) Tare No.	305	2P-25	318	
B) Tare Weight, grams	9.45	6.85	9.24	
C) Wet Soil + Tare, grams	160.06	145.04	156.55	
D) Dry Soil + Tare, grams	142.03	110.50	130.08	
E) Weight of Dry Soil, grams [D - B]	132.58	103.65	120.84	
F) Weight of Moisture, grams [C - D]	18.03	34.54	26.47	
G) Moisture Content, % [F * 100 / E]	13.6	33.3	21.9	
(based on oven-dried weight)				
H) Tare No.	N	R	R	
I) Weight of Tare, grams	55.55	52.25	52.25	
J) Weight of Over-Dried Soil + Tare, grams	134.88	105.15	125.05	
K) Weight of Oven- Dried Soil, grams [J - I]	79.33	52.90	72.80	
L) Weight of Ignited Soil + Tare, grams	133.14	103.63	122.67	
M) Ash, grams [L - I]	77.59	51.38	70.42	
N) Ash Content, % [M *100 / K]	97.8	97.1	96.7	
O) Organic Matter, % [100 - N]	**2.2**	**2.9**	**3.3**	

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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Project No. 6468071777
Tested By CS
Test Date 1/12-23/08

Project Name Exelon COL
Reviewed By
Review Date 1·26·08

Boring No.	B-2265	B-2265	B-2265	B-2265
Sample No.	SS-1	SS-2	SS-4	SS-6
Sample Depth, Ft.	0 - 1.5	3.5 - 5	8.5 - 10	13.5 - 15
A) Tare No.	76	UA	Orange	JP-17
B) Tare Weight, grams	7.04	8.24	9.18	6.90
C) Wet Soil + Tare, grams	124.22	145.18	125.45	169.23
D) Dry Soil + Tare, grams	107.21	125.51	107.42	140.06
E) Weight of Dry Soil, grams [D - B]	100.17	117.27	98.24	133.16
F) Weight of Moisture, grams [C - D]	17.01	19.67	18.03	29.17
G) Moisture Content, % [F * 100 / E]	17.0	16.8	18.4	21.9
(based on oven-dried weight)				
H) Tare No.	R	A	N	Q
I) Weight of Tare, grams	51.51	55.45	55.56	52.05
J) Weight of Over-Dried Soil + Tare, grams	152.49	116.98	152.94	131.15
K) Weight of Oven- Dried Soil, grams [J - I]	100.98	61.53	97.38	79.10
L) Weight of Ignited Soil + Tare, grams	147.36	115.01	150.28	128.75
M) Ash, grams [L - I]	95.85	59.56	94.72	76.70
N) Ash Content, % [M *100 / K]	94.9	96.8	97.3	97.0
O) Organic Matter, % [100 - N]	**5.1**	**3.2**	**2.7**	**3.0**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

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ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/12-23/08

Project Name Exelon COL
Reviewed By [signature]
Review Date 1/26/08
KAW 1/26/08

Boring No.	B-2265	B-2265	B-2265	B-2265
Sample No.	SS-10	SS-18	SS-26	SS-21
Sample Depth, Ft.	33.5 - 35	73.5 - 75	128.5 - 130	88.5 - 90
A) Tare No.	JP-15	LB	JP -7	I
B) Tare Weight, grams	6.90	9.31	6.90	9.10
C) Wet Soil + Tare, grams	163.52	176.96	182.60	170.58
D) Dry Soil + Tare, grams	141.16	150.84	156.00	142.12
E) Weight of Dry Soil, grams [D - B]	134.26	141.53	149.10	133.02
F) Weight of Moisture, grams [C - D]	22.36	26.12	26.60	28.46
G) Moisture Content, % [F * 100 / E]	16.7	18.5	17.8	21.4
(based on oven-dried weight)				
H) Tare No.	S	9	8	S
I) Weight of Tare, grams	53.43	51.66	52.07	52.60
J) Weight of Over-Dried Soil + Tare, grams	133.84	140.20	145.64	143.16
K) Weight of Oven- Dried Soil, grams [J - I]	80.41	88.54	93.57	90.56
L) Weight of Ignited Soil + Tare, grams	131.85	138.81	144.82	141.89
M) Ash, grams [L - I]	78.42	87.15	92.75	89.29
N) Ash Content, % [M *100 / K]	97.5	98.4	99.1	98.6
O) Organic Matter, % [100 - N]	**2.5**	**1.6**	**0.9**	**1.4**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

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(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/12-23/08

Project Name Exelon COL
Reviewed By [illegible]
Review Date 1.26.08

Boring No.	B-2265	B-2265		
Sample No.	SS-12	SS-14		
Sample Depth, Ft.	43.5 - 45	53.5 - 55		
A) Tare No.	3071	JP-4		
B) Tare Weight, grams	9.43	6.85		
C) Wet Soil + Tare, grams	162.61	68.10		
D) Dry Soil + Tare, grams	140.94	58.80		
E) Weight of Dry Soil, grams [D - B]	131.51	51.95		
F) Weight of Moisture, grams [C - D]	21.67	9.30		
G) Moisture Content, % [F * 100 / E]	16.5	17.9		
(based on oven-dried weight)				
H) Tare No.	N	9		
I) Weight of Tare, grams	55.50	51.66		
J) Weight of Over-Dried Soil + Tare, grams	139.63	153.26		
K) Weight of Oven- Dried Soil, grams [J - I]	84.13	101.60		
L) Weight of Ignited Soil + Tare, grams	138.54	151.58		
M) Ash, grams [L - I]	83.04	99.92		
N) Ash Content, % [M *100 / K]	98.7	98.3		
O) Organic Matter, % [100 - N]	**1.3**	**1.7**		

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 11/20-23/07

Project Name Exelon COL
Reviewed By [signature]
Review Date 1/26/08
KAW 1/26/08

Boring No.	B-2269	B-2269	B-2269	B-2269
Sample No.	SS-1	SS-3	SS-5	SS-7
Sample Depth, Ft.	0 - 1.5	6 - 7.5	11 - 12.5	20.4 - 21.9
A) Tare No.	309	ID	I	R
B) Tare Weight, grams	9.41	6.60	9.16	6.79
C) Wet Soil + Tare, grams	189.59	142.19	159.20	174.42
D) Dry Soil + Tare, grams	163.64	117.72	136.32	137.66
E) Weight of Dry Soil, grams [D - B]	154.23	111.12	127.16	130.87
F) Weight of Moisture, grams [C - D]	25.95	24.47	22.88	36.76
G) Moisture Content, % [F * 100 / E]	16.8	22.0	18.0	28.1
(based on oven-dried weight)				
H) Tare No.	R	S	N	R
I) Weight of Tare, grams	51.44	53.40	55.55	51.48
J) Weight of Over-Dried Soil + Tare, grams	164.83	163.56	174.59	162.60
K) Weight of Oven- Dried Soil, grams [J - I]	113.39	110.16	119.04	111.12
L) Weight of Ignited Soil + Tare, grams	160.54	158.85	170.90	155.22
M) Ash, grams [L - I]	109.10	105.45	115.35	103.74
N) Ash Content, % [M *100 / K]	96.2	95.7	96.9	93.4
O) Organic Matter, % [100 - N]	**3.8**	**4.3**	**3.1**	**6.6**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 1/21-27/08

Project Name Exelon COL
Reviewed By [illegible]
Review Date 1/26/08

KAW 1/26/08

Boring No.	B-2269	B-2269	B-2269	B-2269
Sample No.	SS-9	SS-11	SS-16	SS-21
Sample Depth, Ft.	30.4 - 31.9	40.4 - 41.9	65.4 - 66.9	90.4 - 91.9
A) Tare No.	3	302	B	CHIP
B) Tare Weight, grams	9.34	9.53	6.63	9.10
C) Wet Soil + Tare, grams	176.61	142.24	145.19	144.40
D) Dry Soil + Tare, grams	154.12	117.87	119.05	114.63
E) Weight of Dry Soil, grams [D - B]	144.78	108.34	112.42	105.53
F) Weight of Moisture, grams [C - D]	22.49	24.37	26.14	29.77
G) Moisture Content, % [F * 100 / E]	15.5	22.5	23.3	28.2
(based on oven-dried weight)				
H) Tare No.	A	S	S	R
I) Weight of Tare, grams	56.10	53.44	53.43	51.44
J) Weight of Over-Dried Soil + Tare, grams	171.29	165.31	172.55	156.23
K) Weight of Oven- Dried Soil, grams [J - I]	115.19	111.87	119.12	104.79
L) Weight of Ignited Soil + Tare, grams	166.60	160.23	171.50	155.10
M) Ash, grams [L - I]	110.50	106.79	118.07	103.66
N) Ash Content, % [M *100 / K]	95.9	95.5	99.1	98.9
O) Organic Matter, % [100 - N]	**4.1**	**4.5**	**0.9**	**1.1**

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 11/20-28/08

Project Name Exelon COL
Reviewed By [signature]
Review Date 1/26/08
KAW 1/28/08

Boring No.	B-2269	B-2269	B-2269	
Sample No.	SS-29	SS-36	SS-42	
Sample Depth, Ft.	161.7 - 163.2	261.8 - 263.3	381.8 - 383.3	
A) Tare No.	2	L	Purple	
B) Tare Weight, grams	6.80	7.17	9.30	
C) Wet Soil + Tare, grams	120.00	136.15	119.60	
D) Dry Soil + Tare, grams	98.71	114.60	91.50	
E) Weight of Dry Soil, grams [D - B]	91.91	107.43	82.20	
F) Weight of Moisture, grams [C - D]	21.29	21.55	28.10	
G) Moisture Content, % [F * 100 / E]	23.2	20.1	34.2	
(based on oven-dried weight)				
H) Tare No.	R	N	R	
I) Weight of Tare, grams	51.47	55.56	51.47	
J) Weight of Over-Dried Soil + Tare, grams	146.59	163.48	135.03	
K) Weight of Oven- Dried Soil, grams [J - I]	95.12	107.92	83.56	
L) Weight of Ignited Soil + Tare, grams	142.61	162.61	129.51	
M) Ash, grams [L - I]	91.14	107.05	78.04	
N) Ash Content, % [M *100 / K]	95.8	99.2	93.4	
O) Organic Matter, % [100 - N]	**4.2**	**0.8**	**6.6**	

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

Soil Index Test Results (Test Pits)

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

Boring No.	TP-2101	TP-2101	TP-2101	
Sample No.	J-1	J-2	J-3	
Sample Depth, Ft.	4.5	8.0	10.0	
A) Tare No.	T	JP-15	22	
B) Tare Weight, grams	6.77	6.81	6.78	
C) Wet Soil + Tare, grams	168.14	196.21	198.51	
D) Dry Soil + Tare, grams	146.78	167.96	178.62	
E) Weight of Dry Soil, grams [D - B]	140.01	161.15	171.84	
F) Weight of Moisture, grams [C - D]	21.36	28.25	19.89	
G) Moisture Content, % [F * 100 / E]	15.3	17.5	11.6	
(based on oven-dried weight)				
H) Tare No.	H			
I) Weight of Tare, grams	52.08			
J) Weight of Over-Dried Soil + Tare, grams	136.33			
K) Weight of Oven- Dried Soil, grams [J - I]	84.25			
L) Weight of Ignited Soil + Tare, grams	135.50			
M) Ash, grams [L - I]	83.42			
N) Ash Content, % [M *100 / K]	99.0			
O) Organic Matter, % [100 - N]	**1.0**			

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

Boring No.	TP-2102	TP-2102	TP-2102	TP-2102
Sample No.	J-1	J-2	J-3	J-4
Sample Depth, Ft.	1.0	3.0	5.5	8.0
A) Tare No.	84	TT	78	JP-11
B) Tare Weight, grams	6.64	6.72	6.65	6.76
C) Wet Soil + Tare, grams	230.62	198.92	166.90	193.33
D) Dry Soil + Tare, grams	188.50	166.43	143.36	167.99
E) Weight of Dry Soil, grams [D - B]	181.86	159.71	136.71	161.23
F) Weight of Moisture, grams [C - D]	42.12	32.49	23.54	25.34
G) Moisture Content, % [F * 100 / E]	23.2	20.3	17.2	15.7
(based on oven-dried weight)				
H) Tare No.	S	9	Q	
I) Weight of Tare, grams	53.42	53.87	51.13	
J) Weight of Over-Dried Soil + Tare, grams	136.99	158.17	133.22	
K) Weight of Oven- Dried Soil, grams [J - I]	83.57	104.30	82.09	
L) Weight of Ignited Soil + Tare, grams	135.91	156.55	132.97	
M) Ash, grams [L - I]	82.49	102.68	81.84	
N) Ash Content, % [M *100 / K]	98.7	98.4	99.7	
O) Organic Matter, % [100 - N]	**1.3**	**1.6**	**0.3**	

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

Boring No.	TP-2102			
Sample No.	J-5			
Sample Depth, Ft.	10.0			
A) Tare No.	JP-12			
B) Tare Weight, grams	6.69			
C) Wet Soil + Tare, grams	158.00			
D) Dry Soil + Tare, grams	136.85			
E) Weight of Dry Soil, grams [D - B]	130.16			
F) Weight of Moisture, grams [C - D]	21.15			
G) Moisture Content, % [F * 100 / E]	16.2			
(based on oven-dried weight)				
H) Tare No.				
I) Weight of Tare, grams				
J) Weight of Over-Dried Soil + Tare, grams				
K) Weight of Oven- Dried Soil, grams [J - I]				
L) Weight of Ignited Soil + Tare, grams				
M) Ash, grams [L - I]				
N) Ash Content, % [M *100 / K]				
O) Organic Matter, % [100 - N]				

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

Boring No.	TP-2103	TP-2103	TP-2103	TP-2103
Sample No.	J-1	J-2	J-3	J-4
Sample Depth, Ft.	1.0	3.0	5.0	8.0
A) Tare No.	75	84	318	PURPLE
B) Tare Weight, grams	6.87	6.67	9.28	9.23
C) Wet Soil + Tare, grams	187.74	192.58	181.28	230.99
D) Dry Soil + Tare, grams	155.30	157.24	155.97	183.95
E) Weight of Dry Soil, grams [D - B]	148.43	150.57	146.69	174.72
F) Weight of Moisture, grams [C - D]	32.44	35.34	25.31	47.04
G) Moisture Content, % [F * 100 / E]	21.9	23.5	17.3	26.9
(based on oven-dried weight)				
H) Tare No.	L	G	R	
I) Weight of Tare, grams	51.55	53.10	52.51	
J) Weight of Over-Dried Soil + Tare, grams	149.55	140.33	134.91	
K) Weight of Oven- Dried Soil, grams [J - I]	98.00	87.23	82.40	
L) Weight of Ignited Soil + Tare, grams	146.32	137.07	133.67	
M) Ash, grams [L - I]	94.77	83.97	81.16	
N) Ash Content, % [M *100 / K]	96.7	96.3	98.5	
O) Organic Matter, % [100 - N]	**3.3**	**3.7**	**1.5**	

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

Boring No.	TP-2103			
Sample No.	J-5			
Sample Depth, Ft.	10.0			
A) Tare No.	16			
B) Tare Weight, grams	9.28			
C) Wet Soil + Tare, grams	182.19			
D) Dry Soil + Tare, grams	163.76			
E) Weight of Dry Soil, grams [D - B]	154.48			
F) Weight of Moisture, grams [C - D]	18.43			
G) Moisture Content, % [F * 100 / E]	11.9			
(based on oven-dried weight)				
H) Tare No.				
I) Weight of Tare, grams				
J) Weight of Over-Dried Soil + Tare, grams				
K) Weight of Oven- Dried Soil, grams [J - I]				
L) Weight of Ignited Soil + Tare, grams				
M) Ash, grams [L - I]				
N) Ash Content, % [M *100 / K]				
O) Organic Matter, % [100 - N]				

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

MACTEC

ORGANIC CONTENT TEST REPORT

(ASTM D2974-07)

Project No. 6468071777
Tested By CS
Test Date 3/5/2008

Project Name Exelon COL
Reviewed By LBJ DSC
Review Date 3/22/2008 5-7-08

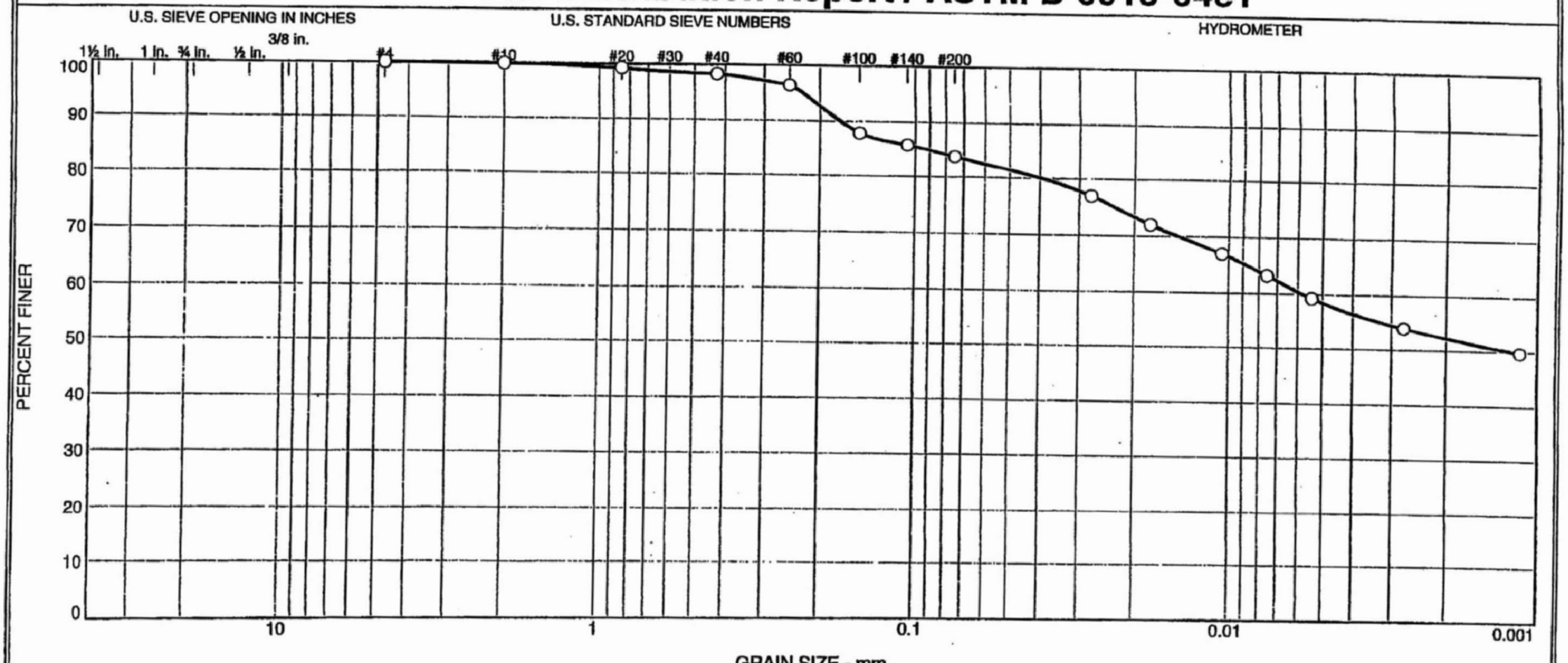
Boring No.	TP-2104	TP-2104	TP-2104	TP-2104
Sample No.	J-1	J-2	J-3	J-4
Sample Depth, Ft.	1.0	3.0	5.0	8.0
A) Tare No.	C-21	81	C-21	318
B) Tare Weight, grams	9.25	6.70	9.25	9.31
C) Wet Soil + Tare, grams	164.60	121.64	126.05	145.17
D) Dry Soil + Tare, grams	141.41	108.73	113.72	131.63
E) Weight of Dry Soil, grams [D - B]	132.16	102.03	104.47	122.32
F) Weight of Moisture, grams [C - D]	23.19	12.91	12.33	13.54
G) Moisture Content, % [F * 100 / E]	17.5	12.7	11.8	11.1
(based on oven-dried weight)				
H) Tare No.	N	9	S	
I) Weight of Tare, grams	55.55	53.87	53.45	
J) Weight of Over-Dried Soil + Tare, grams	162.18	131.55	131.56	
K) Weight of Oven- Dried Soil, grams [J - I]	106.63	77.68	78.11	
L) Weight of Ignited Soil + Tare, grams	159.21	130.79	130.60	
M) Ash, grams [L - I]	103.66	76.92	77.15	
N) Ash Content, % [M *100 / K]	97.2	99.0	98.8	
O) Organic Matter, % [100 - N]	**2.8**	**1.0**	**1.2**	

Remarks: Furnace temperature set @ 440° C

Equipment used:

oven: 5.1.16 muffle furnace 5.1.17
scales: 3.1.19

Particle Size Distribution Report / ASTM D 6913-04e1



	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
O	0.0	0.0	0.0	1.6	14.7	25.2	58.5

	Source	Sample #	Depth/Elev.	Date Sampled	USCS	Material Description	NM %	LL	PL
O	TP-2101	TP-2101, Bulk 1	8	1/17/08	CH	Light Yellowish Brown Fat CLAY with sand	17.5	54	17

Client Bechtel

Project Exelon Texas COL (Victoria)

Project No. 6468071777 Figure NA

MACTEC, Inc.

Raleigh, North Carolina

O Specific Gravity = 2.728 (ASTM D-584-06)
Natural Moisture obtained from Sample J-2,8'

Tested By: CS **Checked By:** LBJ DSC 5-7-08

GRAIN SIZE DISTRIBUTION TEST DATA

4/9/2008

Client: Bechtel
Project: Exelon Texas COL (Victoria)
Project Number: 6468071777
Location: TP-2101
Depth: 8 **Sample Number:** TP-2101,Bulk 1
Material Description: Light Yellowish Brown Fat CLAY with sand
Date: 1/17/08 **Natural Moisture:** 17.5
Liquid Limit: 54 **Plastic Limit:** 17 **USCS Class.:** CH
Testing Remarks: Specific Gravity = 2.728 (ASTM D-584-06)
Natural Moisture obtained from Sample J-2,8'
Tested by: CS **Checked by:** LBJ

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Cumulative Pan Tare Weight (grams)	Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Finer
276.32	0.00	0.00	#4	0.00	100.0
			#10	0.11	100.0
50.96	0.00	0.00	#20	0.37	99.2
			#40	0.81	98.4
			#60	1.80	96.4
			#100	6.15	87.9
			#140	7.21	85.8
			#200	8.28	83.7

Hydrometer Test Data

Hydrometer test uses material passing #10
Percent passing #10 based upon complete sample = 100.0
Weight of hydrometer sample =50.96
Hygroscopic moisture correction:
Moist weight and tare = 28.25
Dry weight and tare = 28.02
Tare weight = 15.49
Hygroscopic moisture = 1.8%
Table of composite correction values:

Temp., deg. C:	12.9	29.9
Comp. corr.:	-8.0	-2.0

Meniscus correction only = 1.0
Specific gravity of solids = 2.728
Hydrometer type = 152H
Hydrometer effective depth equation: L = 16.294964 - 0.164 x Rm

Elapsed Time (min.)	Temp. (deg. C.)	Actual Reading	Corrected Reading	K	Rm	Eff. Depth	Diameter (mm.)	Percent Finer
2.00	22.0	44.0	39.2	0.0130	45.0	8.9	0.0275	77.0
5.00	21.9	41.5	36.7	0.0130	42.5	9.3	0.0178	72.0
15.00	21.7	39.0	34.1	0.0131	40.0	9.7	0.0105	67.0
30.00	21.9	37.0	32.2	0.0130	38.0	10.1	0.0075	63.2
60.00	22.0	35.0	30.2	0.0130	36.0	10.4	0.0054	59.3
240.00	22.9	32.0	27.5	0.0129	33.0	10.9	0.0027	54.1
1440.00	22.3	30.0	25.3	0.0130	31.0	11.2	0.0011	49.7

MACTEC, Inc.

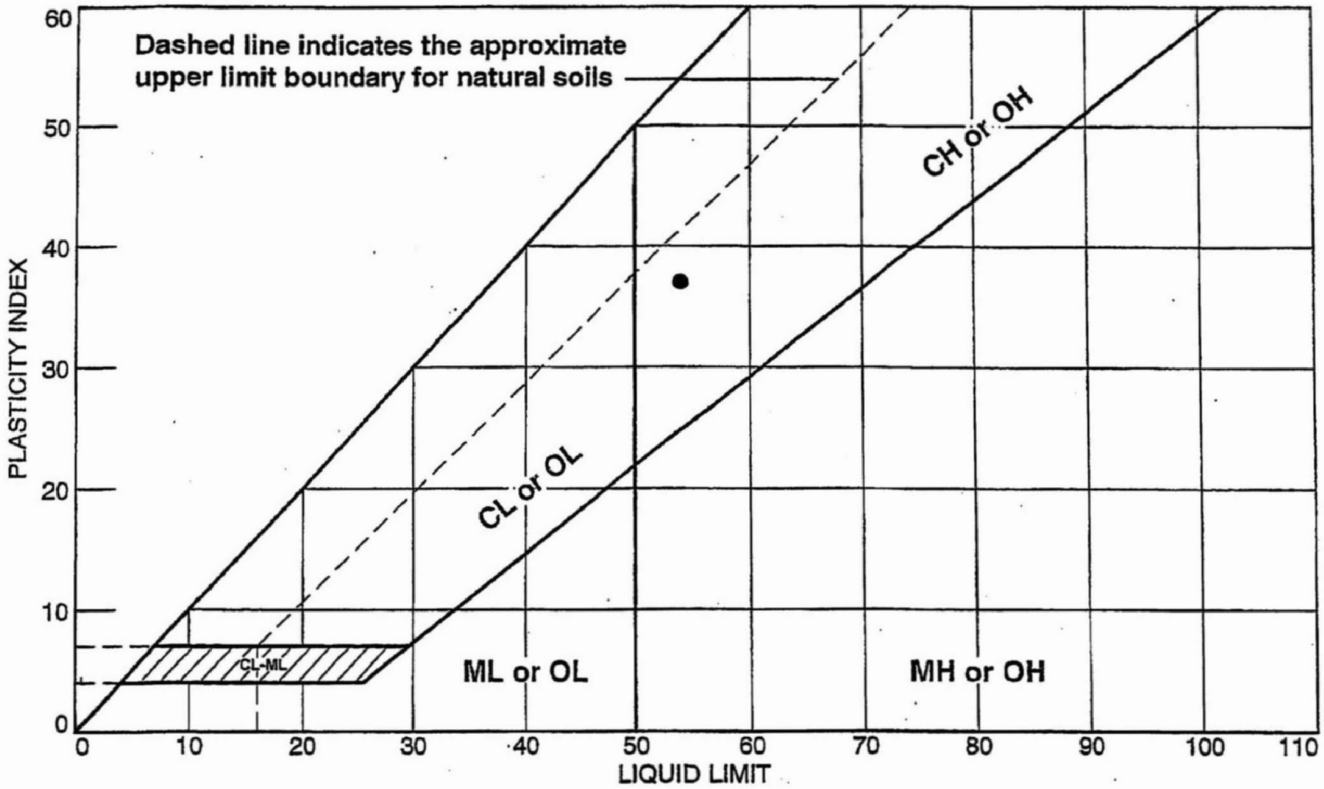
Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	1.6	14.7	16.3	25.2	58.5	83.7

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.0012	0.0058	0.0395	0.0914	0.1728	0.2269

Fineness Modulus
0.17

LIQUID AND PLASTIC LIMITS TEST REPORT ASTM D4318 (05)



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	TP-2101	TP-2101,Bulk 1	8	17.5	17	54	37	CH

MACTEC, Inc. **Raleigh, North Carolina**	**Client:** Bechtel **Project:** Exelon Texas COL (Victoria) **Project No.:** 6468071777 **Figure** NA

Tested By: CS **Checked By:** LBJ DSC 5-7-08

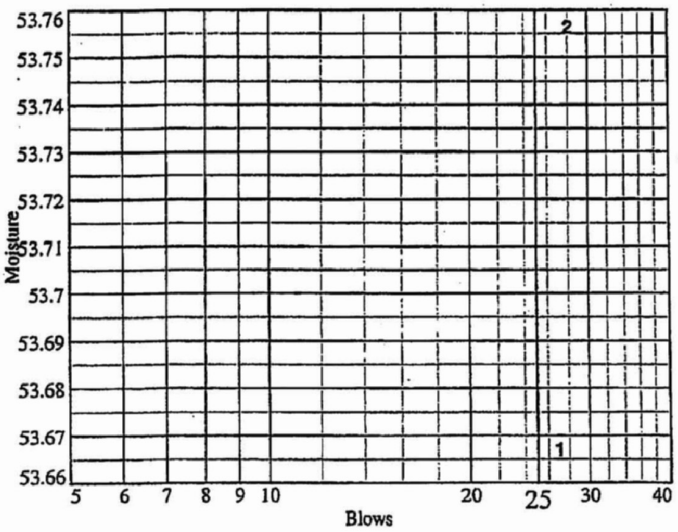
LIQUID AND PLASTIC LIMIT TEST DATA

4/9/2008

Client: Bechtel
Project: Exelon Texas COL (Victoria)
Project Number: 6468071777
Location: TP-2101
Depth: 8 **Sample Number:** TP-2101,Bulk 1
Material Description: Light Yellowish Brown Fat CLAY with sand
USCS: CH **AASHTO:** A-7-6(32)
Tested by: CS **Checked by:** LBJ

Liquid Limit Data

Run No.	1	2	3	4	5	6
Wet+Tare	28.68	27.40				
Dry+Tare	24.07	23.25				
Tare	15.48	15.53				
# Blows	27	28				
Moisture	53.7	53.8				



Liquid Limit= 54
Plastic Limit= 17
Plasticity Index= 37
Natural Moisture= 17.5
Liquidity Index= 0.0

Plastic Limit Data

Run No.	1	2	3	4	
Wet+Tare	25.55	26.54			
Dry+Tare	24.09	25.03			
Tare	15.49	15.64			
Moisture	17.0	16.1			

Natural Moisture Data

Wet+Tare	Dry+Tare	Tare	Moisture
196.21	167.96	6.81	17.5

MACTEC, Inc.